LISTADO DE SECUENCIAS

<110> ENCODED THERAPEUTICS, INC.

<120> PROTEÍNAS MODIFICADAS DE UNIÓN A ADN

<130> 46482-711.601

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<150> 62/664,817

<151> 2018-04-30

<150> 62/664,814

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<150> 62/646,198

<151> 2018-03-21

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<151> 2018-03-12

<150> 62/618,966

<151> 2018-01-18

<150> 62/610,014

<151> 2017-12-22

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<151> 2017-12-01

<160> 454

<170> PatentIn version 3.5

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<223> Descripción de Secuencia Artificial: Polipéptido sintético

<400> 1

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

Ser Asp Pro Phe Gly Ser Phe Pro His Ser Pro Thr Met Asp Asn Tyr
20 25 30

Pro Lys Leu Glu Glu Met Met Leu Leu Ser Asn Gly Ala Pro Gln Phe
35 40 45

Leu Gly Ala Ala Gly Ala Pro Glu Gly Ser Gly Ser Asn Ser Ser Ser
50 55 60

Ser Ser Ser Gly Gly Gly Gly Gly Gly Gly Gly Gly Ser Asn Ser Ser

65 70 75 80

Ser Ser Ser Ser Thr Phe Asn Pro Gln Ala Asp Thr Gly Glu Gln Pro
85 90 95

Tyr Glu His Leu Thr Ala Glu Ser Phe Pro Asp Ile Ser Leu Asn Asn
100 105 110

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

Pro Pro Ile Thr Tyr Thr Gly Arg Phe Ser Leu Glu Pro Ala Pro Asn
130 135 140

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

Leu Val Ser Met Thr Asn Pro Pro Ala Ser Ser Ser Ser Ala Pro Ser
165 170 175

Pro Ala Ala Ser Ser Ala Ser Ala Ser Gln Ser Pro Pro Leu Ser Cys
180 185 190

Ala Val Pro Ser Asn Asp Ser Ser Pro Ile Tyr Ser Ala Ala Pro Thr

195 200 205

Phe Pro Thr Pro Asn Thr Asp Ile Phe Pro Glu Pro Gln Ser Gln Ala

210 215 220

Phe Pro Gly Ser Ala Gly Thr Ala Leu Gln Tyr Pro Pro Pro Ala Tyr

225 230 235 240

Pro Ala Ala Lys Gly Gly Phe Gln Val Pro Met Ile Pro Asp Tyr Leu

245 250 255

Phe Pro Gln Gln Gln Gly Asp Leu Gly Leu Gly Thr Pro Asp Gln Lys

260 265 270

Pro Phe Gln Gly Leu Glu Ser Arg Thr Gln Gln Pro Ser Leu Thr Pro

275 280 285

Leu Ser Thr Ile Lys Ala Phe Ala Thr Gln Ser Gly Ser Gln Asp Leu

290 295 300

Lys Ala Leu Asn Thr Ser Tyr Gln Ser Gln Leu Ile Lys Pro Ser Arg

305 310 315 320

Met Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro Pro His Glu Arg

325 330 335

Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Arg Ser

340 345 350

Asp Glu Leu Thr Arg His Ile Arg Ile His Thr Gly Gln Lys Pro Phe

355 360 365

Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Ser Asp His Leu Thr

370 375 380

Thr His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile

385 390 395 400

Cys Gly Arg Lys Phe Ala Arg Ser Asp Glu Arg Lys Arg His Thr Lys

405 410 415

Ile His Leu Arg Gln Lys Asp Lys Lys Ala Asp Lys Ser Val Val Ala

420 425 430

Ser Ser Ala Thr Ser Ser Leu Ser Ser Tyr Pro Ser Pro Val Ala Thr

435 440 445

Ser Tyr Pro Ser Pro Val Thr Thr Ser Tyr Pro Ser Pro Ala Thr Thr

450 455 460

Ser Tyr Pro Ser Pro Val Pro Thr Ser Phe Ser Ser Pro Gly Ser Ser

465 470 475 480

Thr Tyr Pro Ser Pro Val His Ser Gly Phe Pro Ser Pro Ser Val Ala

485 490 495

Thr Thr Tyr Ser Ser Val Pro Pro Ala Phe Pro Ala Gln Val Ser Ser

500 505 510

Phe Pro Ser Ser Ala Val Thr Asn Ser Phe Ser Ala Ser Thr Gly Leu

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Ser Asp Met Thr Ala Thr Phe Ser Pro Arg Thr Ile Glu Ile Cys

530 535 540

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

Ser Asp Pro Phe Gly Ser Phe Pro His Ser Pro Thr Met Asp Asn Tyr
20 25 30

Pro Lys Leu Glu Glu Met Met Leu Leu Ser Asn Gly Ala Pro Gln Phe
35 40 45

Leu Gly Ala Ala Gly Ala Pro Glu Gly Ser Gly Ser Asn Ser Ser Ser
50 55 60

Ser Ser Ser Gly Gly Gly Gly Gly Gly Gly Gly Gly Ser Asn Ser Ser
65 70 75 80

Ser Ser Ser Ser Thr Phe Asn Pro Gln Ala Asp Thr Gly Glu Gln Pro
85 90 95

Tyr Glu His Leu Thr Ala Glu Ser Phe Pro Asp Ile Ser Leu Asn Asn
100 105 110

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

115 120 125

Pro Pro Ile Thr Tyr Thr Gly Arg Phe Ser Leu Glu Pro Ala Pro Asn

130 135 140

Ser Gly Asn Thr Leu Trp Pro Glu Pro Leu Phe Ser Leu Val Ser Gly

145 150 155 160

Leu Val Ser Met Thr Asn Pro Pro Ala Ser Ser Ser Ser Ala Pro Ser

165 170 175

Pro Ala Ala Ser Ser Ala Ser Ala Ser Gln Ser Pro Pro Leu Ser Cys

180 185 190

Ala Val Pro Ser Asn Asp Ser Ser Pro Ile Tyr Ser Ala Ala Pro Thr

195 200 205

Phe Pro Thr Pro Asn Thr Asp Ile Phe Pro Glu Pro Gln Ser Gln Ala

210 215 220

Phe Pro Gly Ser Ala Gly Thr Ala Leu Gln Tyr Pro Pro Pro Ala Tyr

225 230 235 240

Pro Ala Ala Lys Gly Gly Phe Gln Val Pro Met Ile Pro Asp Tyr Leu

245 250 255

Phe Pro Gln Gln Gln Gly Asp Leu Gly Leu Gly Thr Pro Asp Gln Lys

260 265 270

Pro Phe Gln Gly Leu Glu Ser Arg Thr Gln Gln Pro Ser Leu Thr Pro

275 280 285

Leu Ser Thr Ile Lys Ala Phe Ala Thr Gln Ser Gly Ser Gln Asp Leu

290 295 300

Lys Ala Leu Asn Thr Ser Tyr Gln Ser Gln Leu Ile Lys Pro Ser Arg

305 310 315 320

Met Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro Pro His Glu Leu

325 330 335

Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe

340 345 350

Ser Arg Arg Asp Glu Leu Asn Val His Gln Arg Thr His Thr Gly Glu

355 360 365

Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Ser Arg Arg

370 375 380

Thr Cys Arg Ala His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys

385 390 395 400

Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Ser Ser Asn Leu Val Arg

405 410 415

His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys

420 425 430

Gly Lys Ser Phe Ser Gln Leu Ala His Leu Arg Ala His Gln Arg Thr

435 440 445

His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe

450 455 460

Ser Thr Ser Gly Asn Leu Val Arg His Gln Arg Thr His Thr Gly Glu

465 470 475 480

Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser His Arg Thr

485 490 495

Thr Leu Thr Asn His Gln Arg Thr His Thr Gly Lys Lys Thr Ser Lys

500 505 510

Lys Ala Asp Lys Ser Val Val Ala Ser Ser Ala Thr Ser Ser Leu Ser

515 520 525

Ser Tyr Pro Ser Pro Val Ala Thr Ser Tyr Pro Ser Pro Val Thr Thr

530 535 540

Ser Tyr Pro Ser Pro Ala Thr Thr Ser Tyr Pro Ser Pro Val Pro Thr

545 550 555 560

Ser Phe Ser Ser Pro Gly Ser Ser Thr Tyr Pro Ser Pro Val His Ser

565 570 575

Gly Phe Pro Ser Pro Ser Val Ala Thr Thr Tyr Ser Ser Val Pro Pro

580 585 590

Ala Phe Pro Ala Gln Val Ser Ser Phe Pro Ser Ser Ala Val Thr Asn

595 600 605

Ser Phe Ser Ala Ser Thr Gly Leu Ser Asp Met Thr Ala Thr Phe Ser

610 615 620

Pro Arg Thr Ile Glu Ile Cys

625 630

<210> 3

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Met Ala Ala Ala Lys Ala Glu Met Gln Leu Met Ser Pro Leu Gln Ile

1 5 10 15

Ser Asp Pro Phe Gly Ser Phe Pro His Ser Pro Thr Met Asp Asn Tyr

20 25 30

Pro Lys Leu Glu Glu Met Met Leu Leu Ser Asn Gly Ala Pro Gln Phe

35 40 45

Leu Gly Ala Ala Gly Ala Pro Glu Gly Ser Gly Ser Asn Ser Ser Ser

50 55 60

Ser Ser Ser Gly Gly Gly Gly Gly Gly Gly Gly Ser Asn Ser Ser

65 70 75 80

Ser Ser Ser Ser Thr Phe Asn Pro Gln Ala Asp Thr Gly Glu Gln Pro

85 90 95

Tyr Glu His Leu Thr Ala Glu Ser Phe Pro Asp Ile Ser Leu Asn Asn

100 105 110

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

115 120 125

Pro Pro Ile Thr Tyr Thr Gly Arg Phe Ser Leu Glu Pro Ala Pro Asn

130 135 140

Ser Gly Asn Thr Leu Trp Pro Glu Pro Leu Phe Ser Leu Val Ser Gly

145 150 155 160

Leu Val Ser Met Thr Asn Pro Pro Ala Ser Ser Ser Ser Ala Pro Ser

165 170 175

Pro Ala Ala Ser Ser Ala Ser Ala Ser Gln Ser Pro Pro Leu Ser Cys

180 185 190

Ala Val Pro Ser Asn Asp Ser Ser Pro Ile Tyr Ser Ala Ala Pro Thr

195 200 205

Phe Pro Thr Pro Asn Thr Asp Ile Phe Pro Glu Pro Gln Ser Gln Ala

210 215 220

Phe Pro Gly Ser Ala Gly Thr Ala Leu Gln Tyr Pro Pro Pro Ala Tyr

225 230 235 240

Pro Ala Ala Lys Gly Gly Phe Gln Val Pro Met Ile Pro Asp Tyr Leu

245 250 255

Phe Pro Gln Gln Gln Gly Asp Leu Gly Leu Gly Thr Pro Asp Gln Lys

260 265 270

Pro Phe Gln Gly Leu Glu Ser Arg Thr Gln Gln Pro Ser Leu Thr Pro

275 280 285

Leu Ser Thr Ile Lys Ala Phe Ala Thr Gln Ser Gly Ser Gln Asp Leu

290 295 300

Lys Ala Leu Asn Thr Ser Tyr Gln Ser Gln Leu Ile Lys Pro Ser Arg

305 310 315 320

Met Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro Pro His Glu Arg

325 330 335

Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Gln Leu

340 345 350

Ala His Leu Arg Ala His Ile Arg Ile His Thr Gly Gln Lys Pro Phe

355 360 365

Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Thr Ser Gly Asn Leu Val

370 375 380

Arg His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile

385 390 395 400

Cys Gly Arg Lys Phe Ala His Arg Thr Thr Leu Thr Asn His Thr Lys

405 410 415

Ile His Leu Arg Gln Lys Asp Lys Lys Ala Asp Lys Ser Val Val Ala

420 425 430

Ser Ser Ala Thr Ser Ser Leu Ser Ser Tyr Pro Ser Pro Val Ala Thr

435 440 445

Ser Tyr Pro Ser Pro Val Thr Thr Ser Tyr Pro Ser Pro Ala Thr Thr

450 455 460

Ser Tyr Pro Ser Pro Val Pro Thr Ser Phe Ser Ser Pro Gly Ser Ser

465 470 475 480

Thr Tyr Pro Ser Pro Val His Ser Gly Phe Pro Ser Pro Ser Val Ala

485 490 495

Thr Thr Tyr Ser Ser Val Pro Pro Ala Phe Pro Ala Gln Val Ser Ser

500 505 510

Phe Pro Ser Ser Ala Val Thr Asn Ser Phe Ser Ala Ser Thr Gly Leu

515 520 525

Ser Asp Met Thr Ala Thr Phe Ser Pro Arg Thr Ile Glu Ile Cys

530 535 540

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

Ser Asp Pro Phe Gly Ser Phe Pro His Ser Pro Thr Met Asp Asn Tyr
20 25 30

Pro Lys Leu Glu Glu Met Met Leu Leu Ser Asn Gly Ala Pro Gln Phe
35 40 45

Leu Gly Ala Ala Gly Ala Pro Glu Gly Ser Gly Ser Asn Ser Ser Ser
50 55 60

Ser Ser Ser Gly Gly Gly Gly Gly Gly Gly Gly Gly Ser Asn Ser Ser
65 70 75 80

Ser Ser Ser Ser Thr Phe Asn Pro Gln Ala Asp Thr Gly Glu Gln Pro
85 90 95

Tyr Glu His Leu Thr Ala Glu Ser Phe Pro Asp Ile Ser Leu Asn Asn

100 105 110

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

115 120 125

Pro Pro Ile Thr Tyr Thr Gly Arg Phe Ser Leu Glu Pro Ala Pro Asn

130 135 140

Ser Gly Asn Thr Leu Trp Pro Glu Pro Leu Phe Ser Leu Val Ser Gly

145 150 155 160

Leu Val Ser Met Thr Asn Pro Pro Ala Ser Ser Ser Ser Ala Pro Ser

165 170 175

Pro Ala Ala Ser Ser Ala Ser Ala Ser Gln Ser Pro Pro Leu Ser Cys

180 185 190

Ala Val Pro Ser Asn Asp Ser Ser Pro Ile Tyr Ser Ala Ala Pro Thr

195 200 205

Phe Pro Thr Pro Asn Thr Asp Ile Phe Pro Glu Pro Gln Ser Gln Ala

210 215 220

Phe Pro Gly Ser Ala Gly Thr Ala Leu Gln Tyr Pro Pro Pro Ala Tyr

225 230 235 240

Pro Ala Ala Lys Gly Gly Phe Gln Val Pro Met Ile Pro Asp Tyr Leu

245 250 255

Phe Pro Gln Gln Gln Gly Asp Leu Gly Leu Gly Thr Pro Asp Gln Lys

260 265 270

Pro Phe Gln Gly Leu Glu Ser Arg Thr Gln Gln Pro Ser Leu Thr Pro

275 280 285

Leu Ser Thr Ile Lys Ala Phe Ala Thr Gln Ser Gly Ser Gln Asp Leu

290 295 300

Lys Ala Leu Asn Thr Ser Tyr Gln Ser Gln Leu Ile Lys Pro Ser Arg

305 310 315 320

Met Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro Pro His Glu Arg

325 330 335

Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Arg Arg

340 345 350

Asp Glu Leu Asn Val His Ile Arg Ile His Thr Gly Gln Lys Pro Phe

355 360 365

Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Ser Arg Arg Thr Cys Arg

370 375 380

Ala His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile

385 390 395 400

Cys Gly Arg Lys Phe Ala Gln Ser Ser Asn Leu Val Arg His Thr Lys

405 410 415

Ile His Leu Arg Gln Lys Asp Arg Pro Tyr Ala Cys Pro Val Glu Ser

420 425 430

Cys Asp Arg Arg Phe Ser Gln Leu Ala His Leu Arg Ala His Ile Arg

435 440 445

Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Asn

450 455 460

Phe Ser Thr Ser Gly Asn Leu Val Arg His Ile Arg Thr His Thr Gly

465 470 475 480

Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala His Arg

485 490 495

Thr Thr Leu Thr Asn His Thr Lys Ile His Leu Arg Gln Lys Asp Lys

500 505 510

Lys Ala Asp Lys Ser Val Val Ala Ser Ser Ala Thr Ser Ser Leu Ser

515 520 525

Ser Tyr Pro Ser Pro Val Ala Thr Ser Tyr Pro Ser Pro Val Thr Thr

530 535 540

Ser Tyr Pro Ser Pro Ala Thr Thr Ser Tyr Pro Ser Pro Val Pro Thr

545 550 555 560

Ser Phe Ser Ser Pro Gly Ser Ser Thr Tyr Pro Ser Pro Val His Ser

565 570 575

Gly Phe Pro Ser Pro Ser Val Ala Thr Thr Tyr Ser Ser Val Pro Pro

580 585 590

Ala Phe Pro Ala Gln Val Ser Ser Phe Pro Ser Ser Ala Val Thr Asn

595 600 605

Ser Phe Ser Ala Ser Thr Gly Leu Ser Asp Met Thr Ala Thr Phe Ser

610 615 620

Pro Arg Thr Ile Glu Ile Cys

625 630

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Met Ala Ala Ala Lys Ala Glu Met Gln Leu Met Ser Pro Leu Gln Ile

1 5 10 15

Ser Asp Pro Phe Gly Ser Phe Pro His Ser Pro Thr Met Asp Asn Tyr

20 25 30

Pro Lys Leu Glu Glu Met Met Leu Leu Ser Asn Gly Ala Pro Gln Phe

35 40 45

Leu Gly Ala Ala Gly Ala Pro Glu Gly Ser Gly Ser Asn Ser Ser Ser

50 55 60

Ser Ser Ser Gly Gly Gly Gly Gly Gly Gly Gly Gly Ser Asn Ser Ser

65 70 75 80

Ser Ser Ser Ser Thr Phe Asn Pro Gln Ala Asp Thr Gly Glu Gln Pro

85 90 95

Tyr Glu His Leu Thr Ala Glu Ser Phe Pro Asp Ile Ser Leu Asn Asn

100 105 110

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

115 120 125

Pro Pro Ile Thr Tyr Thr Gly Arg Phe Ser Leu Glu Pro Ala Pro Asn

130 135 140

Ser Gly Asn Thr Leu Trp Pro Glu Pro Leu Phe Ser Leu Val Ser Gly

145 150 155 160

Leu Val Ser Met Thr Asn Pro Pro Ala Ser Ser Ser Ser Ala Pro Ser

165 170 175

Pro Ala Ala Ser Ser Ala Ser Ala Ser Gln Ser Pro Pro Leu Ser Cys

180 185 190

Ala Val Pro Ser Asn Asp Ser Ser Pro Ile Tyr Ser Ala Ala Pro Thr

195 200 205

Phe Pro Thr Pro Asn Thr Asp Ile Phe Pro Glu Pro Gln Ser Gln Ala

210 215 220

Phe Pro Gly Ser Ala Gly Thr Ala Leu Gln Tyr Pro Pro Pro Ala Tyr

225 230 235 240

Pro Ala Ala Lys Gly Gly Phe Gln Val Pro Met Ile Pro Asp Tyr Leu

245 250 255

Phe Pro Gln Gln Gln Gly Asp Leu Gly Leu Gly Thr Pro Asp Gln Lys

260 265 270

Pro Phe Gln Gly Leu Glu Ser Arg Thr Gln Gln Pro Ser Leu Thr Pro

275 280 285

Leu Ser Thr Ile Lys Ala Phe Ala Thr Gln Ser Gly Ser Gln Asp Leu

290 295 300

Lys Ala Leu Asn Thr Ser Tyr Gln Ser Gln Leu Ile Lys Pro Ser Arg

305 310 315 320

Met Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro Pro His Glu Arg

325 330 335

Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Arg Arg

340 345 350

Asp Glu Leu Asn Val His Ile Arg Ile His Thr Gly Gln Lys Pro Phe

355 360 365

Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Ser Arg Arg Thr Cys Arg

370 375 380

Ala His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile

385 390 395 400

Cys Gly Arg Lys Phe Ala Gln Ser Ser Asn Leu Val Arg His Ile Arg

405 410 415

Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys

420 425 430

Phe Ser Gln Leu Ala His Leu Arg Ala His Ile Arg Ile His Thr Gly

435 440 445

Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Thr Ser

450 455 460

Gly Asn Leu Val Arg His Ile Arg Thr His Thr Gly Glu Lys Pro Phe

465 470 475 480

Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala His Arg Thr Thr Leu Thr

485 490 495

Asn His Thr Lys Ile His Leu Arg Gln Lys Asp Lys Lys Ala Asp Lys

500 505 510

Ser Val Val Ala Ser Ser Ala Thr Ser Ser Leu Ser Ser Tyr Pro Ser

515 520 525

Pro Val Ala Thr Ser Tyr Pro Ser Pro Val Thr Thr Ser Tyr Pro Ser

530 535 540

Pro Ala Thr Thr Ser Tyr Pro Ser Pro Val Pro Thr Ser Phe Ser Ser
545 550 555 560

Pro Gly Ser Ser Thr Tyr Pro Ser Pro Val His Ser Gly Phe Pro Ser
565 570 575

Pro Ser Val Ala Thr Thr Tyr Ser Ser Val Pro Pro Ala Phe Pro Ala
580 585 590

Gln Val Ser Ser Phe Pro Ser Ser Ala Val Thr Asn Ser Phe Ser Ala
595 600 605

Ser Thr Gly Leu Ser Asp Met Thr Ala Thr Phe Ser Pro Arg Thr Ile
610 615 620

Glu Ile Cys
625

<210> 6

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<213> Secuencia Artificial

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

Ser Asp Pro Phe Gly Ser Phe Pro His Ser Pro Thr Met Asp Asn Tyr
20 25 30

Pro Lys Leu Glu Glu Met Met Leu Leu Ser Asn Gly Ala Pro Gln Phe
35 40 45

Leu Gly Ala Ala Gly Ala Pro Glu Gly Ser Gly Ser Asn Ser Ser Ser
50 55 60

Ser Ser Ser Gly Gly Gly Gly Gly Gly Gly Gly Gly Ser Asn Ser Ser
65 70 75 80

Ser Ser Ser Ser Thr Phe Asn Pro Gln Ala Asp Thr Gly Glu Gln Pro
85 90 95

Tyr Glu His Leu Thr Ala Glu Ser Phe Pro Asp Ile Ser Leu Asn Asn
100 105 110

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

115 120 125

Pro Pro Ile Thr Tyr Thr Gly Arg Phe Ser Leu Glu Pro Ala Pro Asn

130 135 140

Ser Gly Asn Thr Leu Trp Pro Glu Pro Leu Phe Ser Leu Val Ser Gly

145 150 155 160

Leu Val Ser Met Thr Asn Pro Pro Ala Ser Ser Ser Ser Ala Pro Ser

165 170 175

Pro Ala Ala Ser Ser Ala Ser Ala Ser Gln Ser Pro Pro Leu Ser Cys

180 185 190

Ala Val Pro Ser Asn Asp Ser Ser Pro Ile Tyr Ser Ala Ala Pro Thr

195 200 205

Phe Pro Thr Pro Asn Thr Asp Ile Phe Pro Glu Pro Gln Ser Gln Ala

210 215 220

Phe Pro Gly Ser Ala Gly Thr Ala Leu Gln Tyr Pro Pro Pro Ala Tyr

225 230 235 240

Pro Ala Ala Lys Gly Gly Phe Gln Val Pro Met Ile Pro Asp Tyr Leu
245 250 255

Phe Pro Gln Gln Gln Gly Asp Leu Gly Leu Gly Thr Pro Asp Gln Lys
260 265 270

Pro Phe Gln Gly Leu Glu Ser Arg Thr Gln Gln Pro Ser Leu Thr Pro
275 280 285

Leu Ser Thr Ile Lys Ala Phe Ala Thr Gln Ser Gly Ser Gln Asp Leu
290 295 300

Lys Ala Leu Asn Thr Ser Tyr Gln Ser Gln Leu Ile Lys Pro Ser Arg
305 310 315 320

Met Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro Pro His Glu Arg
325 330 335

Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Arg Ser
340 345 350

Asp Asn Leu Val Arg His Ile Arg Ile His Thr Gly Gln Lys Pro Phe

355 360 365

Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Glu Asp Asn Leu His

370 375 380

Thr His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile

385 390 395 400

Cys Gly Arg Lys Phe Ala Arg Ser Asp Glu Leu Val Arg His Thr Lys

405 410 415

Ile His Leu Arg Gln Lys Asp Arg Pro Tyr Ala Cys Pro Val Glu Ser

420 425 430

Cys Asp Arg Arg Phe Ser Gln Ser Gly Asn Leu Thr Glu His Ile Arg

435 440 445

Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Asn

450 455 460

Phe Ser Thr Ser Gly His Leu Val Arg His Ile Arg Thr His Thr Gly

465 470 475 480

Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Gln Asn

485 490 495

Ser Thr Leu Thr Glu His Thr Lys Ile His Leu Arg Gln Lys Asp Lys

500 505 510

Lys Ala Asp Lys Ser Val Val Ala Ser Ser Ala Thr Ser Ser Leu Ser

515 520 525

Ser Tyr Pro Ser Pro Val Ala Thr Ser Tyr Pro Ser Pro Val Thr Thr

530 535 540

Ser Tyr Pro Ser Pro Ala Thr Thr Ser Tyr Pro Ser Pro Val Pro Thr

545 550 555 560

Ser Phe Ser Ser Pro Gly Ser Ser Thr Tyr Pro Ser Pro Val His Ser

565 570 575

Gly Phe Pro Ser Pro Ser Val Ala Thr Thr Tyr Ser Ser Val Pro Pro

580 585 590

Ala Phe Pro Ala Gln Val Ser Ser Phe Pro Ser Ser Ala Val Thr Asn

595 600 605

Ser Phe Ser Ala Ser Thr Gly Leu Ser Asp Met Thr Ala Thr Phe Ser

610 615 620

Pro Arg Thr Ile Glu Ile Cys

625 630

<210> 7

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<213> Secuencia Artificial

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<223> Descripción de Secuencia Artificial: Polipéptido sintético

<400> 7

Met Ala Ala Ala Lys Ala Glu Met Gln Leu Met Ser Pro Leu Gln Ile

1 5 10 15

Ser Asp Pro Phe Gly Ser Phe Pro His Ser Pro Thr Met Asp Asn Tyr

20 25 30

Pro Lys Leu Glu Glu Met Met Leu Leu Ser Asn Gly Ala Pro Gln Phe

35 40 45

Leu Gly Ala Ala Gly Ala Pro Glu Gly Ser Gly Ser Asn Ser Ser Ser

50 55 60

Ser Ser Ser Gly Gly Gly Gly Gly Gly Gly Gly Gly Ser Asn Ser Ser

65 70 75 80

Ser Ser Ser Ser Thr Phe Asn Pro Gln Ala Asp Thr Gly Glu Gln Pro

85 90 95

Tyr Glu His Leu Thr Ala Glu Ser Phe Pro Asp Ile Ser Leu Asn Asn

100 105 110

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

115 120 125

Pro Pro Ile Thr Tyr Thr Gly Arg Phe Ser Leu Glu Pro Ala Pro Asn

130 135 140

Ser Gly Asn Thr Leu Trp Pro Glu Pro Leu Phe Ser Leu Val Ser Gly

145 150 155 160

Leu Val Ser Met Thr Asn Pro Pro Ala Ser Ser Ser Ser Ala Pro Ser

165 170 175

Pro Ala Ala Ser Ser Ala Ser Ala Ser Gln Ser Pro Pro Leu Ser Cys

180 185 190

Ala Val Pro Ser Asn Asp Ser Ser Pro Ile Tyr Ser Ala Ala Pro Thr

195 200 205

Phe Pro Thr Pro Asn Thr Asp Ile Phe Pro Glu Pro Gln Ser Gln Ala

210 215 220

Phe Pro Gly Ser Ala Gly Thr Ala Leu Gln Tyr Pro Pro Pro Ala Tyr

225 230 235 240

Pro Ala Ala Lys Gly Gly Phe Gln Val Pro Met Ile Pro Asp Tyr Leu

245 250 255

Phe Pro Gln Gln Gln Gly Asp Leu Gly Leu Gly Thr Pro Asp Gln Lys

260 265 270

Pro Phe Gln Gly Leu Glu Ser Arg Thr Gln Gln Pro Ser Leu Thr Pro

275 280 285

Leu Ser Thr Ile Lys Ala Phe Ala Thr Gln Ser Gly Ser Gln Asp Leu

290 295 300

Lys Ala Leu Asn Thr Ser Tyr Gln Ser Gln Leu Ile Lys Pro Ser Arg

305 310 315 320

Met Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro Pro His Glu Arg

325 330 335

Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Arg Ser

340 345 350

Asp Asn Leu Val Arg His Ile Arg Ile His Thr Gly Gln Lys Pro Phe

355 360 365

Gln Cys Arg Ile Cys Met Arg Asn Phe Ser His Arg Thr Thr Leu Thr

370 375 380

Asn His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile

385 390 395 400

Cys Gly Arg Lys Phe Ala Arg Glu Asp Asn Leu His Thr His Thr Lys

405 410 415

Ile His Leu Arg Gln Lys Asp Arg Pro Tyr Ala Cys Pro Val Glu Ser

420 425 430

Cys Asp Arg Arg Phe Ser Thr Ser His Ser Leu Thr Glu His Ile Arg

435 440 445

Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Asn

450 455 460

Phe Ser Gln Ser Ser Ser Leu Val Arg His Ile Arg Thr His Thr Gly

465 470 475 480

Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Arg Glu

485 490 495

Asp Asn Leu His Thr His Thr Lys Ile His Leu Arg Gln Lys Asp Lys

500 505 510

Lys Ala Asp Lys Ser Val Val Ala Ser Ser Ala Thr Ser Ser Leu Ser

515 520 525

Ser Tyr Pro Ser Pro Val Ala Thr Ser Tyr Pro Ser Pro Val Thr Thr

530 535 540

Ser Tyr Pro Ser Pro Ala Thr Thr Ser Tyr Pro Ser Pro Val Pro Thr

545 550 555 560

Ser Phe Ser Ser Pro Gly Ser Ser Thr Tyr Pro Ser Pro Val His Ser

565 570 575

Gly Phe Pro Ser Pro Ser Val Ala Thr Thr Tyr Ser Ser Val Pro Pro

580 585 590

Ala Phe Pro Ala Gln Val Ser Ser Phe Pro Ser Ser Ala Val Thr Asn

595 600 605

Ser Phe Ser Ala Ser Thr Gly Leu Ser Asp Met Thr Ala Thr Phe Ser

610 615 620

Pro Arg Thr Ile Glu Ile Cys

625 630

<210> 8

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<213> Secuencia Artificial

<220>

<223> Descripción de Secuencia Artificial: Polipéptido sintético

<400> 8

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

Ser Asp Pro Phe Gly Ser Phe Pro His Ser Pro Thr Met Asp Asn Tyr
20 25 30

Pro Lys Leu Glu Glu Met Met Leu Leu Ser Asn Gly Ala Pro Gln Phe
35 40 45

Leu Gly Ala Ala Gly Ala Pro Glu Gly Ser Gly Ser Asn Ser Ser Ser
50 55 60

Ser Ser Ser Gly Gly Gly Gly Gly Gly Gly Gly Gly Ser Asn Ser Ser
65 70 75 80

Ser Ser Ser Ser Thr Phe Asn Pro Gln Ala Asp Thr Gly Glu Gln Pro
85 90 95

Tyr Glu His Leu Thr Ala Glu Ser Phe Pro Asp Ile Ser Leu Asn Asn
100 105 110

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

115 120 125

Pro Pro Ile Thr Tyr Thr Gly Arg Phe Ser Leu Glu Pro Ala Pro Asn

130 135 140

Ser Gly Asn Thr Leu Trp Pro Glu Pro Leu Phe Ser Leu Val Ser Gly

145 150 155 160

Leu Val Ser Met Thr Asn Pro Pro Ala Ser Ser Ser Ser Ala Pro Ser

165 170 175

Pro Ala Ala Ser Ser Ala Ser Ala Ser Gln Ser Pro Pro Leu Ser Cys

180 185 190

Ala Val Pro Ser Asn Asp Ser Ser Pro Ile Tyr Ser Ala Ala Pro Thr

195 200 205

Phe Pro Thr Pro Asn Thr Asp Ile Phe Pro Glu Pro Gln Ser Gln Ala

210 215 220

Phe Pro Gly Ser Ala Gly Thr Ala Leu Gln Tyr Pro Pro Pro Ala Tyr

225 230 235 240

Pro Ala Ala Lys Gly Gly Phe Gln Val Pro Met Ile Pro Asp Tyr Leu

245 250 255

Phe Pro Gln Gln Gln Gly Asp Leu Gly Leu Gly Thr Pro Asp Gln Lys

260 265 270

Pro Phe Gln Gly Leu Glu Ser Arg Thr Gln Gln Pro Ser Leu Thr Pro

275 280 285

Leu Ser Thr Ile Lys Ala Phe Ala Thr Gln Ser Gly Ser Gln Asp Leu

290 295 300

Lys Ala Leu Asn Thr Ser Tyr Gln Ser Gln Leu Ile Lys Pro Ser Arg

305 310 315 320

Met Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro Pro His Glu Arg

325 330 335

Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Arg Ser

340 345 350

Asp Asn Leu Val Arg His Ile Arg Ile His Thr Gly Gln Lys Pro Phe

355 360 365

Gln Cys Arg Ile Cys Met Arg Asn Phe Ser His Arg Thr Thr Leu Thr

370 375 380

Asn His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile

385 390 395 400

Cys Gly Arg Lys Phe Ala Arg Glu Asp Asn Leu His Thr His Ile Arg

405 410 415

Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys

420 425 430

Phe Ser Thr Ser His Ser Leu Thr Glu His Ile Arg Ile His Thr Gly

435 440 445

Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Gln Ser

450 455 460

Ser Ser Leu Val Arg His Ile Arg Thr His Thr Gly Glu Lys Pro Phe

465 470 475 480

Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Arg Glu Asp Asn Leu His

485 490 495

Thr His Thr Lys Ile His Leu Arg Gln Lys Asp Lys Lys Ala Asp Lys

500 505 510

Ser Val Val Ala Ser Ser Ala Thr Ser Ser Leu Ser Ser Tyr Pro Ser

515 520 525

Pro Val Ala Thr Ser Tyr Pro Ser Pro Val Thr Thr Ser Tyr Pro Ser

530 535 540

Pro Ala Thr Thr Ser Tyr Pro Ser Pro Val Pro Thr Ser Phe Ser Ser

545 550 555 560

Pro Gly Ser Ser Thr Tyr Pro Ser Pro Val His Ser Gly Phe Pro Ser

565 570 575

Pro Ser Val Ala Thr Thr Tyr Ser Ser Val Pro Pro Ala Phe Pro Ala

580 585 590

Gln Val Ser Ser Phe Pro Ser Ser Ala Val Thr Asn Ser Phe Ser Ala

595 600 605

Ser Thr Gly Leu Ser Asp Met Thr Ala Thr Phe Ser Pro Arg Thr Ile

610 615 620

Glu Ile Cys
625

<210> 9
<211> 719
<212> PRT
<213> Secuencia Artificial

<220>
<223> Descripción de Secuencia Artificial: Polipéptido sintético

<400> 9
Met Ala Ala Ala Lys Ala Glu Met Gln Leu Met Ser Pro Leu Gln Ile
1 5 10 15

Ser Asp Pro Phe Gly Ser Phe Pro His Ser Pro Thr Met Asp Asn Tyr
20 25 30

Pro Lys Leu Glu Glu Met Met Leu Leu Ser Asn Gly Ala Pro Gln Phe
35 40 45

Leu Gly Ala Ala Gly Ala Pro Glu Gly Ser Gly Ser Asn Ser Ser Ser
50 55 60

Ser Ser Ser Gly Gly Gly Gly Gly Gly Gly Gly Gly Ser Asn Ser Ser

65 70 75 80

Ser Ser Ser Ser Thr Phe Asn Pro Gln Ala Asp Thr Gly Glu Gln Pro

85 90 95

Tyr Glu His Leu Thr Ala Glu Ser Phe Pro Asp Ile Ser Leu Asn Asn

100 105 110

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

115 120 125

Pro Pro Ile Thr Tyr Thr Gly Arg Phe Ser Leu Glu Pro Ala Pro Asn

130 135 140

Ser Gly Asn Thr Leu Trp Pro Glu Pro Leu Phe Ser Leu Val Ser Gly

145 150 155 160

Leu Val Ser Met Thr Asn Pro Pro Ala Ser Ser Ser Ser Ala Pro Ser

165 170 175

Pro Ala Ala Ser Ser Ala Ser Ala Ser Gln Ser Pro Pro Leu Ser Cys

180 185 190

Ala Val Pro Ser Asn Asp Ser Ser Pro Ile Tyr Ser Ala Ala Pro Thr

195 200 205

Phe Pro Thr Pro Asn Thr Asp Ile Phe Pro Glu Pro Gln Ser Gln Ala

210 215 220

Phe Pro Gly Ser Ala Gly Thr Ala Leu Gln Tyr Pro Pro Pro Ala Tyr

225 230 235 240

Pro Ala Ala Lys Gly Gly Phe Gln Val Pro Met Ile Pro Asp Tyr Leu

245 250 255

Phe Pro Gln Gln Gln Gly Asp Leu Gly Leu Gly Thr Pro Asp Gln Lys

260 265 270

Pro Phe Gln Gly Leu Glu Ser Arg Thr Gln Gln Pro Ser Leu Thr Pro

275 280 285

Leu Ser Thr Ile Lys Ala Phe Ala Thr Gln Ser Gly Ser Gln Asp Leu

290 295 300

Lys Ala Leu Asn Thr Ser Tyr Gln Ser Gln Leu Ile Lys Pro Ser Arg

305 310 315 320

Met Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro Pro His Glu Arg
325 330 335

Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Arg Arg
340 345 350

Asp Glu Leu Asn Val His Ile Arg Ile His Thr Gly Gln Lys Pro Phe
355 360 365

Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Ser Asp His Leu Thr
370 375 380

Asn His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile
385 390 395 400

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

Ile His Leu Arg Gln Lys Asp Arg Pro Tyr Ala Cys Pro Val Glu Ser
420 425 430

Cys Asp Arg Arg Phe Ser Arg Ser Asp Asn Leu Val Arg His Ile Arg

435 440 445

Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Asn

450 455 460

Phe Ser His Arg Thr Thr Leu Thr Asn His Ile Arg Thr His Thr Gly

465 470 475 480

Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Arg Glu

485 490 495

Asp Asn Leu His Thr His Thr Lys Ile His Leu Arg Gln Lys Asp Arg

500 505 510

Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Thr Ser

515 520 525

His Ser Leu Thr Glu His Ile Arg Ile His Thr Gly Gln Lys Pro Phe

530 535 540

Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Gln Ser Ser Ser Leu Val

545 550 555 560

Arg His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile

565 570 575

Cys Gly Arg Lys Phe Ala Arg Glu Asp Asn Leu His Thr His Thr Lys

580 585 590

Ile His Leu Arg Gln Lys Asp Lys Lys Ala Asp Lys Ser Val Val Ala

595 600 605

Ser Ser Ala Thr Ser Ser Leu Ser Ser Tyr Pro Ser Pro Val Ala Thr

610 615 620

Ser Tyr Pro Ser Pro Val Thr Thr Ser Tyr Pro Ser Pro Ala Thr Thr

625 630 635 640

Ser Tyr Pro Ser Pro Val Pro Thr Ser Phe Ser Ser Pro Gly Ser Ser

645 650 655

Thr Tyr Pro Ser Pro Val His Ser Gly Phe Pro Ser Pro Ser Val Ala

660 665 670

Thr Thr Tyr Ser Ser Val Pro Pro Ala Phe Pro Ala Gln Val Ser Ser

675 680 685

Phe Pro Ser Ser Ala Val Thr Asn Ser Phe Ser Ala Ser Thr Gly Leu

690 695 700

Ser Asp Met Thr Ala Thr Phe Ser Pro Arg Thr Ile Glu Ile Cys

705 710 715

<210> 10

<211> 631

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de Secuencia Artificial: Polipéptido sintético

<400> 10

Met Ala Ala Ala Lys Ala Glu Met Gln Leu Met Ser Pro Leu Gln Ile

1 5 10 15

Ser Asp Pro Phe Gly Ser Phe Pro His Ser Pro Thr Met Asp Asn Tyr

20 25 30

Pro Lys Leu Glu Glu Met Met Leu Leu Ser Asn Gly Ala Pro Gln Phe

35 40 45

Leu Gly Ala Ala Gly Ala Pro Glu Gly Ser Gly Ser Asn Ser Ser Ser

50 55 60

Ser Ser Ser Gly Gly Gly Gly Gly Gly Gly Gly Gly Ser Asn Ser Ser

65 70 75 80

Ser Ser Ser Ser Thr Phe Asn Pro Gln Ala Asp Thr Gly Glu Gln Pro

85 90 95

Tyr Glu His Leu Thr Ala Glu Ser Phe Pro Asp Ile Ser Leu Asn Asn

100 105 110

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

115 120 125

Pro Pro Ile Thr Tyr Thr Gly Arg Phe Ser Leu Glu Pro Ala Pro Asn

130 135 140

Ser Gly Asn Thr Leu Trp Pro Glu Pro Leu Phe Ser Leu Val Ser Gly

145 150 155 160

Leu Val Ser Met Thr Asn Pro Pro Ala Ser Ser Ser Ser Ala Pro Ser

165 170 175

Pro Ala Ala Ser Ser Ala Ser Ala Ser Gln Ser Pro Pro Leu Ser Cys

180 185 190

Ala Val Pro Ser Asn Asp Ser Ser Pro Ile Tyr Ser Ala Ala Pro Thr

195 200 205

Phe Pro Thr Pro Asn Thr Asp Ile Phe Pro Glu Pro Gln Ser Gln Ala

210 215 220

Phe Pro Gly Ser Ala Gly Thr Ala Leu Gln Tyr Pro Pro Pro Ala Tyr

225 230 235 240

Pro Ala Ala Lys Gly Gly Phe Gln Val Pro Met Ile Pro Asp Tyr Leu

245 250 255

Phe Pro Gln Gln Gln Gly Asp Leu Gly Leu Gly Thr Pro Asp Gln Lys

260 265 270

Pro Phe Gln Gly Leu Glu Ser Arg Thr Gln Gln Pro Ser Leu Thr Pro

275 280 285

Leu Ser Thr Ile Lys Ala Phe Ala Thr Gln Ser Gly Ser Gln Asp Leu

290 295 300

Lys Ala Leu Asn Thr Ser Tyr Gln Ser Gln Leu Ile Lys Pro Ser Arg

305 310 315 320

Met Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro Pro His Glu Arg

325 330 335

Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Ser Pro

340 345 350

Ala Asp Leu Thr Arg His Ile Arg Ile His Thr Gly Gln Lys Pro Phe

355 360 365

Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Asp Ser Gly Asn Leu Arg

370 375 380

Val His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile

385 390 395 400

Cys Gly Arg Lys Phe Ala Gln Leu Ala His Leu Arg Ala His Thr Lys

405 410 415

Ile His Leu Arg Gln Lys Asp Arg Pro Tyr Ala Cys Pro Val Glu Ser

420 425 430

Cys Asp Arg Arg Phe Ser Gln Arg Ala Asn Leu Arg Ala His Ile Arg

435 440 445

Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Asn

450 455 460

Phe Ser Arg Glu Asp Asn Leu His Thr His Ile Arg Thr His Thr Gly

465 470 475 480

Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Arg Ser

485 490 495

Asp Asn Leu Val Arg His Thr Lys Ile His Leu Arg Gln Lys Asp Lys

500 505 510

Lys Ala Asp Lys Ser Val Val Ala Ser Ser Ala Thr Ser Ser Leu Ser

515 520 525

Ser Tyr Pro Ser Pro Val Ala Thr Ser Tyr Pro Ser Pro Val Thr Thr

530 535 540

Ser Tyr Pro Ser Pro Ala Thr Thr Ser Tyr Pro Ser Pro Val Pro Thr

545 550 555 560

Ser Phe Ser Ser Pro Gly Ser Ser Thr Tyr Pro Ser Pro Val His Ser

565 570 575

Gly Phe Pro Ser Pro Ser Val Ala Thr Thr Tyr Ser Ser Val Pro Pro

580 585 590

Ala Phe Pro Ala Gln Val Ser Ser Phe Pro Ser Ser Ala Val Thr Asn

595 600 605

Ser Phe Ser Ala Ser Thr Gly Leu Ser Asp Met Thr Ala Thr Phe Ser

610 615 620

Pro Arg Thr Ile Glu Ile Cys

625 630

<210> 11

<211> 387

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de Secuencia Artificial: Polipéptido sintético

<400> 11

Met Thr Gly Lys Leu Ala Glu Lys Leu Pro Val Thr Met Ser Ser Leu

1 5 10 15

Leu Asn Gln Leu Pro Asp Asn Leu Tyr Pro Glu Glu Ile Pro Ser Ala

20 25 30

Leu Asn Leu Phe Ser Gly Ser Ser Asp Ser Val Val His Tyr Asn Gln

35 40 45

Met Ala Thr Glu Asn Val Met Asp Ile Gly Leu Thr Asn Glu Lys Pro

50 55 60

Asn Pro Glu Leu Ser Tyr Ser Gly Ser Phe Gln Pro Ala Pro Gly Asn

65 70 75 80

Lys Thr Val Thr Tyr Leu Gly Lys Phe Ala Phe Asp Ser Pro Ser Asn

85 90 95

Trp Cys Gln Asp Asn Ile Ile Ser Leu Met Ser Ala Gly Ile Leu Gly

100 105 110

Val Pro Pro Ala Ser Gly Ala Leu Ser Thr Gln Thr Ser Thr Ala Ser

115 120 125

Met Val Gln Pro Pro Gln Gly Asp Val Glu Ala Met Tyr Pro Ala Leu

130 135 140

Pro Pro Tyr Ser Asn Cys Gly Asp Leu Tyr Ser Glu Pro Val Ser Phe

145 150 155 160

His Asp Pro Gln Gly Asn Pro Gly Leu Ala Tyr Ser Pro Gln Asp Tyr

165 170 175

Gln Ser Ala Lys Pro Ala Leu Asp Ser Asn Leu Phe Pro Met Ile Pro

180 185 190

Asp Tyr Asn Leu Tyr His His Pro Asn Asp Met Gly Ser Ile Pro Glu

195 200 205

His Lys Pro Phe Gln Gly Met Asp Pro Ile Arg Val Asn Pro Pro Pro

210 215 220

Ile Thr Pro Leu Glu Thr Ile Lys Ala Phe Lys Asp Lys Gln Ile His

225 230 235 240

Pro Gly Phe Gly Ser Leu Pro Gln Pro Pro Leu Thr Leu Lys Pro Ile

245 250 255

Arg Pro Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro Leu His Glu

260 265 270

Arg Pro His Ala Cys Pro Ala Glu Gly Cys Asp Arg Arg Phe Ser Gln

275 280 285

Leu Ala His Leu Arg Ala His Leu Arg Ile His Thr Gly His Lys Pro

290 295 300

Phe Gln Cys Arg Ile Cys Met Arg Ser Phe Ser Thr Ser Gly Asn Leu

305 310 315 320

Val Arg His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Glu

325 330 335

Phe Cys Gly Arg Lys Phe Ala His Arg Thr Thr Leu Thr Asn His Ala

340 345 350

Lys Ile His Leu Lys Gln Lys Glu Lys Lys Ala Glu Lys Gly Gly Ala

355 360 365

Pro Ser Ala Ser Ser Ala Pro Pro Val Ser Leu Ala Pro Val Val Thr

370 375 380

Thr Cys Ala

385

<210> 12

<211> 473

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de Secuencia Artificial: Polipéptido sintético

<400> 12

Met Thr Gly Lys Leu Ala Glu Lys Leu Pro Val Thr Met Ser Ser Leu

1 5 10 15

Leu Asn Gln Leu Pro Asp Asn Leu Tyr Pro Glu Glu Ile Pro Ser Ala

20 25 30

Leu Asn Leu Phe Ser Gly Ser Ser Asp Ser Val Val His Tyr Asn Gln

35 40 45

Met Ala Thr Glu Asn Val Met Asp Ile Gly Leu Thr Asn Glu Lys Pro

50 55 60

Asn Pro Glu Leu Ser Tyr Ser Gly Ser Phe Gln Pro Ala Pro Gly Asn
65 70 75 80

Lys Thr Val Thr Tyr Leu Gly Lys Phe Ala Phe Asp Ser Pro Ser Asn
85 90 95

Trp Cys Gln Asp Asn Ile Ile Ser Leu Met Ser Ala Gly Ile Leu Gly
100 105 110

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

Met Val Gln Pro Pro Gln Gly Asp Val Glu Ala Met Tyr Pro Ala Leu
130 135 140

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

His Asp Pro Gln Gly Asn Pro Gly Leu Ala Tyr Ser Pro Gln Asp Tyr
165 170 175

Gln Ser Ala Lys Pro Ala Leu Asp Ser Asn Leu Phe Pro Met Ile Pro

180 185 190

Asp Tyr Asn Leu Tyr His His Pro Asn Asp Met Gly Ser Ile Pro Glu

195 200 205

His Lys Pro Phe Gln Gly Met Asp Pro Ile Arg Val Asn Pro Pro Pro

210 215 220

Ile Thr Pro Leu Glu Thr Ile Lys Ala Phe Lys Asp Lys Gln Ile His

225 230 235 240

Pro Gly Phe Gly Ser Leu Pro Gln Pro Pro Leu Thr Leu Lys Pro Ile

245 250 255

Arg Pro Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro Leu His Glu

260 265 270

Arg Pro His Ala Cys Pro Ala Glu Gly Cys Asp Arg Arg Phe Ser Arg

275 280 285

Arg Asp Glu Leu Asn Val His Leu Arg Ile His Thr Gly His Lys Pro

290 295 300

Phe Gln Cys Arg Ile Cys Met Arg Ser Phe Ser Ser Arg Arg Thr Cys

305 310 315 320

Arg Ala His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Glu

325 330 335

Phe Cys Gly Arg Lys Phe Ala Gln Ser Ser Asn Leu Val Arg His Ala

340 345 350

Lys Ile His Leu Lys Gln Lys Glu His Ala Cys Pro Ala Glu Gly Cys

355 360 365

Asp Arg Arg Phe Ser Gln Leu Ala His Leu Arg Ala His Leu Arg Ile

370 375 380

His Thr Gly His Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Ser Phe

385 390 395 400

Ser Thr Ser Gly Asn Leu Val Arg His Ile Arg Thr His Thr Gly Glu

405 410 415

Lys Pro Phe Ala Cys Glu Phe Cys Gly Arg Lys Phe Ala His Arg Thr

420 425 430

Thr Leu Thr Asn His Ala Lys Ile His Leu Lys Gln Lys Glu Lys Lys

435 440 445

Ala Glu Lys Gly Gly Ala Pro Ser Ala Ser Ser Ala Pro Pro Val Ser

450 455 460

Leu Ala Pro Val Val Thr Thr Cys Ala

465 470

<210> 13

<211> 473

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de Secuencia Artificial: Polipéptido sintético

<400> 13

Met Thr Gly Lys Leu Ala Glu Lys Leu Pro Val Thr Met Ser Ser Leu

1 5 10 15

Leu Asn Gln Leu Pro Asp Asn Leu Tyr Pro Glu Glu Ile Pro Ser Ala

20 25 30

Leu Asn Leu Phe Ser Gly Ser Ser Asp Ser Val Val His Tyr Asn Gln

35 40 45

Met Ala Thr Glu Asn Val Met Asp Ile Gly Leu Thr Asn Glu Lys Pro

50 55 60

Asn Pro Glu Leu Ser Tyr Ser Gly Ser Phe Gln Pro Ala Pro Gly Asn

65 70 75 80

Lys Thr Val Thr Tyr Leu Gly Lys Phe Ala Phe Asp Ser Pro Ser Asn

85 90 95

Trp Cys Gln Asp Asn Ile Ile Ser Leu Met Ser Ala Gly Ile Leu Gly

100 105 110

Val Pro Pro Ala Ser Gly Ala Leu Ser Thr Gln Thr Ser Thr Ala Ser

115 120 125

Met Val Gln Pro Pro Gln Gly Asp Val Glu Ala Met Tyr Pro Ala Leu

130 135 140

Pro Pro Tyr Ser Asn Cys Gly Asp Leu Tyr Ser Glu Pro Val Ser Phe

145 150 155 160

His Asp Pro Gln Gly Asn Pro Gly Leu Ala Tyr Ser Pro Gln Asp Tyr

165 170 175

Gln Ser Ala Lys Pro Ala Leu Asp Ser Asn Leu Phe Pro Met Ile Pro

180 185 190

Asp Tyr Asn Leu Tyr His His Pro Asn Asp Met Gly Ser Ile Pro Glu

195 200 205

His Lys Pro Phe Gln Gly Met Asp Pro Ile Arg Val Asn Pro Pro Pro

210 215 220

Ile Thr Pro Leu Glu Thr Ile Lys Ala Phe Lys Asp Lys Gln Ile His

225 230 235 240

Pro Gly Phe Gly Ser Leu Pro Gln Pro Pro Leu Thr Leu Lys Pro Ile

245 250 255

Arg Pro Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro Leu His Glu

260 265 270

Arg Pro His Ala Cys Pro Ala Glu Gly Cys Asp Arg Arg Phe Ser Arg

275 280 285

Ser Asp Asn Leu Val Arg His Leu Arg Ile His Thr Gly His Lys Pro

290 295 300

Phe Gln Cys Arg Ile Cys Met Arg Ser Phe Ser Arg Glu Asp Asn Leu

305 310 315 320

His Thr His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Glu

325 330 335

Phe Cys Gly Arg Lys Phe Ala Arg Ser Asp Glu Leu Val Arg His Ala

340 345 350

Lys Ile His Leu Lys Gln Lys Glu His Ala Cys Pro Ala Glu Gly Cys

355 360 365

Asp Arg Arg Phe Ser Gln Ser Gly Asn Leu Thr Glu His Leu Arg Ile

370 375 380

His Thr Gly His Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Ser Phe

385 390 395 400

Ser Thr Ser Gly His Leu Val Arg His Ile Arg Thr His Thr Gly Glu

405 410 415

Lys Pro Phe Ala Cys Glu Phe Cys Gly Arg Lys Phe Ala Gln Asn Ser
420 425 430

Thr Leu Thr Glu His Ala Lys Ile His Leu Lys Gln Lys Glu Lys Lys
435 440 445

Ala Glu Lys Gly Gly Ala Pro Ser Ala Ser Ser Ala Pro Pro Val Ser
450 455 460

Leu Ala Pro Val Val Thr Thr Cys Ala
465 470

<210> 14

<211> 473

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de Secuencia Artificial: Polipéptido sintético

<400> 14

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

Leu Asn Gln Leu Pro Asp Asn Leu Tyr Pro Glu Glu Ile Pro Ser Ala

20 25 30

Leu Asn Leu Phe Ser Gly Ser Ser Asp Ser Val Val His Tyr Asn Gln

35 40 45

Met Ala Thr Glu Asn Val Met Asp Ile Gly Leu Thr Asn Glu Lys Pro

50 55 60

Asn Pro Glu Leu Ser Tyr Ser Gly Ser Phe Gln Pro Ala Pro Gly Asn

65 70 75 80

Lys Thr Val Thr Tyr Leu Gly Lys Phe Ala Phe Asp Ser Pro Ser Asn

85 90 95

Trp Cys Gln Asp Asn Ile Ile Ser Leu Met Ser Ala Gly Ile Leu Gly

100 105 110

Val Pro Pro Ala Ser Gly Ala Leu Ser Thr Gln Thr Ser Thr Ala Ser

115 120 125

Met Val Gln Pro Pro Gln Gly Asp Val Glu Ala Met Tyr Pro Ala Leu

130 135 140

Pro Pro Tyr Ser Asn Cys Gly Asp Leu Tyr Ser Glu Pro Val Ser Phe

145 150 155 160

His Asp Pro Gln Gly Asn Pro Gly Leu Ala Tyr Ser Pro Gln Asp Tyr

165 170 175

Gln Ser Ala Lys Pro Ala Leu Asp Ser Asn Leu Phe Pro Met Ile Pro

180 185 190

Asp Tyr Asn Leu Tyr His His Pro Asn Asp Met Gly Ser Ile Pro Glu

195 200 205

His Lys Pro Phe Gln Gly Met Asp Pro Ile Arg Val Asn Pro Pro Pro

210 215 220

Ile Thr Pro Leu Glu Thr Ile Lys Ala Phe Lys Asp Lys Gln Ile His

225 230 235 240

Pro Gly Phe Gly Ser Leu Pro Gln Pro Pro Leu Thr Leu Lys Pro Ile

245 250 255

Arg Pro Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro Leu His Glu

260 265 270

Arg Pro His Ala Cys Pro Ala Glu Gly Cys Asp Arg Arg Phe Ser Arg

275 280 285

Ser Asp Asn Leu Val Arg His Leu Arg Ile His Thr Gly His Lys Pro

290 295 300

Phe Gln Cys Arg Ile Cys Met Arg Ser Phe Ser His Arg Thr Thr Leu

305 310 315 320

Thr Asn His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Glu

325 330 335

Phe Cys Gly Arg Lys Phe Ala Arg Glu Asp Asn Leu His Thr His Ala

340 345 350

Lys Ile His Leu Lys Gln Lys Glu His Ala Cys Pro Ala Glu Gly Cys

355 360 365

Asp Arg Arg Phe Ser Thr Ser His Ser Leu Thr Glu His Leu Arg Ile

370 375 380

His Thr Gly His Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Ser Phe

385 390 395 400

Ser Gln Ser Ser Ser Leu Val Arg His Ile Arg Thr His Thr Gly Glu

405 410 415

Lys Pro Phe Ala Cys Glu Phe Cys Gly Arg Lys Phe Ala Arg Glu Asp

420 425 430

Asn Leu His Thr His Ala Lys Ile His Leu Lys Gln Lys Glu Lys Lys

435 440 445

Ala Glu Lys Gly Gly Ala Pro Ser Ala Ser Ser Ala Pro Pro Val Ser

450 455 460

Leu Ala Pro Val Val Thr Thr Cys Ala

465 470

<210> 15

<211> 559

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de Secuencia Artificial: Polipéptido sintético

<400> 15

Met Thr Gly Lys Leu Ala Glu Lys Leu Pro Val Thr Met Ser Ser Leu

1 5 10 15

Leu Asn Gln Leu Pro Asp Asn Leu Tyr Pro Glu Glu Ile Pro Ser Ala

20 25 30

Leu Asn Leu Phe Ser Gly Ser Ser Asp Ser Val Val His Tyr Asn Gln

35 40 45

Met Ala Thr Glu Asn Val Met Asp Ile Gly Leu Thr Asn Glu Lys Pro

50 55 60

Asn Pro Glu Leu Ser Tyr Ser Gly Ser Phe Gln Pro Ala Pro Gly Asn

65 70 75 80

Lys Thr Val Thr Tyr Leu Gly Lys Phe Ala Phe Asp Ser Pro Ser Asn

85 90 95

Trp Cys Gln Asp Asn Ile Ile Ser Leu Met Ser Ala Gly Ile Leu Gly

100 105 110

Val Pro Pro Ala Ser Gly Ala Leu Ser Thr Gln Thr Ser Thr Ala Ser

115 120 125

Met Val Gln Pro Pro Gln Gly Asp Val Glu Ala Met Tyr Pro Ala Leu

130 135 140

Pro Pro Tyr Ser Asn Cys Gly Asp Leu Tyr Ser Glu Pro Val Ser Phe

145 150 155 160

His Asp Pro Gln Gly Asn Pro Gly Leu Ala Tyr Ser Pro Gln Asp Tyr

165 170 175

Gln Ser Ala Lys Pro Ala Leu Asp Ser Asn Leu Phe Pro Met Ile Pro

180 185 190

Asp Tyr Asn Leu Tyr His His Pro Asn Asp Met Gly Ser Ile Pro Glu

195 200 205

His Lys Pro Phe Gln Gly Met Asp Pro Ile Arg Val Asn Pro Pro Pro

210 215 220

Ile Thr Pro Leu Glu Thr Ile Lys Ala Phe Lys Asp Lys Gln Ile His

225 230 235 240

Pro Gly Phe Gly Ser Leu Pro Gln Pro Pro Leu Thr Leu Lys Pro Ile

245 250 255

Arg Pro Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro Leu His Glu

260 265 270

Arg Pro His Ala Cys Pro Ala Glu Gly Cys Asp Arg Arg Phe Ser Arg

275 280 285

Arg Asp Glu Leu Asn Val His Leu Arg Ile His Thr Gly His Lys Pro

290 295 300

Phe Gln Cys Arg Ile Cys Met Arg Ser Phe Ser Arg Ser Asp His Leu

305 310 315 320

Thr Asn His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Glu

325 330 335

Phe Cys Gly Arg Lys Phe Ala Arg Ser Asp Asp Leu Val Arg His Ala

340 345 350

Lys Ile His Leu Lys Gln Lys Glu His Ala Cys Pro Ala Glu Gly Cys

355 360 365

Asp Arg Arg Phe Ser Arg Ser Asp Asn Leu Val Arg His Leu Arg Ile

370 375 380

His Thr Gly His Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Ser Phe

385 390 395 400

Ser His Arg Thr Thr Leu Thr Asn His Ile Arg Thr His Thr Gly Glu

405 410 415

Lys Pro Phe Ala Cys Glu Phe Cys Gly Arg Lys Phe Ala Arg Glu Asp

420 425 430

Asn Leu His Thr His Ala Lys Ile His Leu Lys Gln Lys Glu His Ala

435 440 445

Cys Pro Ala Glu Gly Cys Asp Arg Arg Phe Ser Thr Ser His Ser Leu

450 455 460

Thr Glu His Leu Arg Ile His Thr Gly His Lys Pro Phe Gln Cys Arg

465 470 475 480

Ile Cys Met Arg Ser Phe Ser Gln Ser Ser Ser Leu Val Arg His Ile

485 490 495

Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Glu Phe Cys Gly Arg

500 505 510

Lys Phe Ala Arg Glu Asp Asn Leu His Thr His Ala Lys Ile His Leu

515 520 525

Lys Gln Lys Glu Lys Lys Ala Glu Lys Gly Gly Ala Pro Ser Ala Ser

530 535 540

Ser Ala Pro Pro Val Ser Leu Ala Pro Val Val Thr Thr Cys Ala

545 550 555

<210> 16

<211> 473

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de Secuencia Artificial: Polipéptido sintético

<400> 16

Met Thr Gly Lys Leu Ala Glu Lys Leu Pro Val Thr Met Ser Ser Leu

1 5 10 15

Leu Asn Gln Leu Pro Asp Asn Leu Tyr Pro Glu Glu Ile Pro Ser Ala

20 25 30

Leu Asn Leu Phe Ser Gly Ser Ser Asp Ser Val Val His Tyr Asn Gln

35 40 45

Met Ala Thr Glu Asn Val Met Asp Ile Gly Leu Thr Asn Glu Lys Pro

50 55 60

Asn Pro Glu Leu Ser Tyr Ser Gly Ser Phe Gln Pro Ala Pro Gly Asn

65 70 75 80

Lys Thr Val Thr Tyr Leu Gly Lys Phe Ala Phe Asp Ser Pro Ser Asn

85 90 95

Trp Cys Gln Asp Asn Ile Ile Ser Leu Met Ser Ala Gly Ile Leu Gly

100 105 110

Val Pro Pro Ala Ser Gly Ala Leu Ser Thr Gln Thr Ser Thr Ala Ser

115 120 125

Met Val Gln Pro Pro Gln Gly Asp Val Glu Ala Met Tyr Pro Ala Leu

130 135 140

Pro Pro Tyr Ser Asn Cys Gly Asp Leu Tyr Ser Glu Pro Val Ser Phe

145 150 155 160

His Asp Pro Gln Gly Asn Pro Gly Leu Ala Tyr Ser Pro Gln Asp Tyr

165 170 175

Gln Ser Ala Lys Pro Ala Leu Asp Ser Asn Leu Phe Pro Met Ile Pro

180 185 190

Asp Tyr Asn Leu Tyr His His Pro Asn Asp Met Gly Ser Ile Pro Glu

195 200 205

His Lys Pro Phe Gln Gly Met Asp Pro Ile Arg Val Asn Pro Pro Pro

210 215 220

Ile Thr Pro Leu Glu Thr Ile Lys Ala Phe Lys Asp Lys Gln Ile His

225 230 235 240

Pro Gly Phe Gly Ser Leu Pro Gln Pro Pro Leu Thr Leu Lys Pro Ile

245 250 255

Arg Pro Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro Leu His Glu

260 265 270

Arg Pro His Ala Cys Pro Ala Glu Gly Cys Asp Arg Arg Phe Ser Ser

275 280 285

Pro Ala Asp Leu Thr Arg His Leu Arg Ile His Thr Gly His Lys Pro

290 295 300

Phe Gln Cys Arg Ile Cys Met Arg Ser Phe Ser Asp Ser Gly Asn Leu

305 310 315 320

Arg Val His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Glu

325 330 335

Phe Cys Gly Arg Lys Phe Ala Gln Leu Ala His Leu Arg Ala His Ala

340 345 350

Lys Ile His Leu Lys Gln Lys Glu His Ala Cys Pro Ala Glu Gly Cys

355 360 365

Asp Arg Arg Phe Ser Gln Arg Ala Asn Leu Arg Ala His Leu Arg Ile

370 375 380

His Thr Gly His Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Ser Phe

385 390 395 400

Ser Arg Glu Asp Asn Leu His Thr His Ile Arg Thr His Thr Gly Glu
405 410 415

Lys Pro Phe Ala Cys Glu Phe Cys Gly Arg Lys Phe Ala Arg Ser Asp
420 425 430

Asn Leu Val Arg His Ala Lys Ile His Leu Lys Gln Lys Glu Lys Lys
435 440 445

Ala Glu Lys Gly Gly Ala Pro Ser Ala Ser Ser Ala Pro Pro Val Ser
450 455 460

Leu Ala Pro Val Val Thr Thr Cys Ala
465 470

<210> 17

<211> 88

<212> PRT

<213> Secuencia Artificial

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<223> Descripción de Secuencia Artificial: Polipéptido sintético

<400> 17

Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Arg

1 5 10 15

Ser Asp Glu Leu Thr Arg His Ile Arg Ile His Thr Gly Gln Lys Pro

20 25 30

Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Ser Asp His Leu

35 40 45

Thr Thr His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp

50 55 60

Ile Cys Gly Arg Lys Phe Ala Arg Ser Asp Glu Arg Lys Arg His Thr

65 70 75 80

Lys Ile His Leu Arg Gln Lys Asp

85

<210> 18

<211> 176

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de Secuencia Artificial: Polipéptido sintético

<400> 18

Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser
1 5 10 15

Phe Ser Arg Arg Asp Glu Leu Asn Val His Gln Arg Thr His Thr Gly
20 25 30

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Ser Arg
35 40 45

Arg Thr Cys Arg Ala His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr
50 55 60

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Ser Ser Asn Leu Val
65 70 75 80

Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu
85 90 95

Cys Gly Lys Ser Phe Ser Gln Leu Ala His Leu Arg Ala His Gln Arg
100 105 110

Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

115 120 125

Phe Ser Thr Ser Gly Asn Leu Val Arg His Gln Arg Thr His Thr Gly

130 135 140

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser His Arg

145 150 155 160

Thr Thr Leu Thr Asn His Gln Arg Thr His Thr Gly Lys Lys Thr Ser

165 170 175

<210> 19

<211> 88

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de Secuencia Artificial: Polipéptido sintético

<400> 19

Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Gln

1 5 10 15

Leu Ala His Leu Arg Ala His Ile Arg Ile His Thr Gly Gln Lys Pro

20 25 30

Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Thr Ser Gly Asn Leu

35 40 45

Val Arg His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp

50 55 60

Ile Cys Gly Arg Lys Phe Ala His Arg Thr Thr Leu Thr Asn His Thr

65 70 75 80

Lys Ile His Leu Arg Gln Lys Asp

85

<210> 20

<211> 176

<212> PRT

<213> Secuencia Artificial

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<223> Descripción de Secuencia Artificial: Polipéptido sintético

<400> 20

Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Arg

1 5 10 15

Arg Asp Glu Leu Asn Val His Ile Arg Ile His Thr Gly Gln Lys Pro

20 25 30

Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Ser Arg Arg Thr Cys

35 40 45

Arg Ala His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp

50 55 60

Ile Cys Gly Arg Lys Phe Ala Gln Ser Ser Asn Leu Val Arg His Thr

65 70 75 80

Lys Ile His Leu Arg Gln Lys Asp Arg Pro Tyr Ala Cys Pro Val Glu

85 90 95

Ser Cys Asp Arg Arg Phe Ser Gln Leu Ala His Leu Arg Ala His Ile

100 105 110

Arg Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg

115 120 125

Asn Phe Ser Thr Ser Gly Asn Leu Val Arg His Ile Arg Thr His Thr

130 135 140

Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala His

145 150 155 160

Arg Thr Thr Leu Thr Asn His Thr Lys Ile His Leu Arg Gln Lys Asp

165 170 175

<210> 21

<211> 172

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de Secuencia Artificial: Polipéptido sintético

<400> 21

Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Arg

1 5 10 15

Arg Asp Glu Leu Asn Val His Ile Arg Ile His Thr Gly Gln Lys Pro

20 25 30

Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Ser Arg Arg Thr Cys

35 40 45

Arg Ala His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp

50 55 60

Ile Cys Gly Arg Lys Phe Ala Gln Ser Ser Asn Leu Val Arg His Ile
65 70 75 80

Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg
85 90 95

Lys Phe Ser Gln Leu Ala His Leu Arg Ala His Ile Arg Ile His Thr
100 105 110

Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Thr
115 120 125

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

Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala His Arg Thr Thr Leu
145 150 155 160

Thr Asn His Thr Lys Ile His Leu Arg Gln Lys Asp
165 170

<210> 22

<211> 176

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de Secuencia Artificial: Polipéptido sintético

<400> 22

Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Arg
1 5 10 15

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

Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Glu Asp Asn Leu
35 40 45

His Thr His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp
50 55 60

Ile Cys Gly Arg Lys Phe Ala Arg Ser Asp Glu Leu Val Arg His Thr
65 70 75 80

Lys Ile His Leu Arg Gln Lys Asp Arg Pro Tyr Ala Cys Pro Val Glu
85 90 95

Ser Cys Asp Arg Arg Phe Ser Gln Ser Gly Asn Leu Thr Glu His Ile

100 105 110

Arg Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg

115 120 125

Asn Phe Ser Thr Ser Gly His Leu Val Arg His Ile Arg Thr His Thr

130 135 140

Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Gln

145 150 155 160

Asn Ser Thr Leu Thr Glu His Thr Lys Ile His Leu Arg Gln Lys Asp

165 170 175

<210> 23

<211> 176

<212> PRT

<213> Secuencia Artificial

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<223> Descripción de Secuencia Artificial: Polipéptido sintético

<400> 23

Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Arg

1 5 10 15

Ser Asp Asn Leu Val Arg His Ile Arg Ile His Thr Gly Gln Lys Pro

20 25 30

Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser His Arg Thr Thr Leu

35 40 45

Thr Asn His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp

50 55 60

Ile Cys Gly Arg Lys Phe Ala Arg Glu Asp Asn Leu His Thr His Thr

65 70 75 80

Lys Ile His Leu Arg Gln Lys Asp Arg Pro Tyr Ala Cys Pro Val Glu

85 90 95

Ser Cys Asp Arg Arg Phe Ser Thr Ser His Ser Leu Thr Glu His Ile

100 105 110

Arg Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg

115 120 125

Asn Phe Ser Gln Ser Ser Ser Leu Val Arg His Ile Arg Thr His Thr

130 135 140

Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Arg

145 150 155 160

Glu Asp Asn Leu His Thr His Thr Lys Ile His Leu Arg Gln Lys Asp

165 170 175

<210> 24

<211> 172

<212> PRT

<213> Secuencia artifical

<220>

<223> Descripción de Secuencia Artificial: Polipéptido sintético

<400> 24

Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Arg

1 5 10 15

Ser Asp Asn Leu Val Arg His Ile Arg Ile His Thr Gly Gln Lys Pro

20 25 30

Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser His Arg Thr Thr Leu

35 40 45

Thr Asn His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp

50 55 60

Ile Cys Gly Arg Lys Phe Ala Arg Glu Asp Asn Leu His Thr His Ile

65 70 75 80

Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg

85 90 95

Lys Phe Ser Thr Ser His Ser Leu Thr Glu His Ile Arg Ile His Thr

100 105 110

Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Gln

115 120 125

Ser Ser Ser Leu Val Arg His Ile Arg Thr His Thr Gly Glu Lys Pro

130 135 140

Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Arg Glu Asp Asn Leu

145 150 155 160

His Thr His Thr Lys Ile His Leu Arg Gln Lys Asp

165 170

<210> 25

<211> 264

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 25

Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Arg

1 5 10 15

Arg Asp Glu Leu Asn Val His Ile Arg Ile His Thr Gly Gln Lys Pro

20 25 30

Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Ser Asp His Leu

35 40 45

Thr Asn His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp

50 55 60

Ile Cys Gly Arg Lys Phe Ala Arg Ser Asp Asp Leu Val Arg His Thr

65 70 75 80

Lys Ile His Leu Arg Gln Lys Asp Arg Pro Tyr Ala Cys Pro Val Glu
85 90 95

Ser Cys Asp Arg Arg Phe Ser Arg Ser Asp Asn Leu Val Arg His Ile
100 105 110

Arg Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg
115 120 125

Asn Phe Ser His Arg Thr Thr Leu Thr Asn His Ile Arg Thr His Thr
130 135 140

Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Arg
145 150 155 160

Glu Asp Asn Leu His Thr His Thr Lys Ile His Leu Arg Gln Lys Asp
165 170 175

Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Thr
180 185 190

Ser His Ser Leu Thr Glu His Ile Arg Ile His Thr Gly Gln Lys Pro

195 200 205

Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Gln Ser Ser Ser Leu

210 215 220

Val Arg His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp

225 230 235 240

Ile Cys Gly Arg Lys Phe Ala Arg Glu Asp Asn Leu His Thr His Thr

245 250 255

Lys Ile His Leu Arg Gln Lys Asp

260

<210> 26

<211> 176

<212> PRT

<213> Secuencia Artificial

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<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 26

Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Ser

1 5 10 15

Pro Ala Asp Leu Thr Arg His Ile Arg Ile His Thr Gly Gln Lys Pro
20 25 30

Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Asp Ser Gly Asn Leu
35 40 45

Arg Val His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp
50 55 60

Ile Cys Gly Arg Lys Phe Ala Gln Leu Ala His Leu Arg Ala His Thr
65 70 75 80

Lys Ile His Leu Arg Gln Lys Asp Arg Pro Tyr Ala Cys Pro Val Glu
85 90 95

Ser Cys Asp Arg Arg Phe Ser Gln Arg Ala Asn Leu Arg Ala His Ile
100 105 110

Arg Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg
115 120 125

Asn Phe Ser Arg Glu Asp Asn Leu His Thr His Ile Arg Thr His Thr

130 135 140

Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Arg

145 150 155 160

Ser Asp Asn Leu Val Arg His Thr Lys Ile His Leu Arg Gln Lys Asp

165 170 175

<210> 27

<211> 87

<212> PRT

<213> Secuencia Artificial

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<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 27

Pro His Ala Cys Pro Ala Glu Gly Cys Asp Arg Arg Phe Ser Gln Leu

1 5 10 15

Ala His Leu Arg Ala His Leu Arg Ile His Thr Gly His Lys Pro Phe

20 25 30

Gln Cys Arg Ile Cys Met Arg Ser Phe Ser Thr Ser Gly Asn Leu Val

35 40 45

Arg His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Glu Phe

50 55 60

Cys Gly Arg Lys Phe Ala His Arg Thr Thr Leu Thr Asn His Ala Lys

65 70 75 80

Ile His Leu Lys Gln Lys Glu

85

<210> 28

<211> 172

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 28

His Ala Cys Pro Ala Glu Gly Cys Asp Arg Arg Phe Ser Arg Arg Asp

1 5 10 15

Glu Leu Asn Val His Leu Arg Ile His Thr Gly His Lys Pro Phe Gln

20 25 30

Cys Arg Ile Cys Met Arg Ser Phe Ser Ser Arg Arg Thr Cys Arg Ala

35 40 45

His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Glu Phe Cys

50 55 60

Gly Arg Lys Phe Ala Gln Ser Ser Asn Leu Val Arg His Ala Lys Ile

65 70 75 80

His Leu Lys Gln Lys Glu His Ala Cys Pro Ala Glu Gly Cys Asp Arg

85 90 95

Arg Phe Ser Gln Leu Ala His Leu Arg Ala His Leu Arg Ile His Thr

100 105 110

Gly His Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Ser Phe Ser Thr

115 120 125

Ser Gly Asn Leu Val Arg His Ile Arg Thr His Thr Gly Glu Lys Pro

130 135 140

Phe Ala Cys Glu Phe Cys Gly Arg Lys Phe Ala His Arg Thr Thr Leu

145 150 155 160

Thr Asn His Ala Lys Ile His Leu Lys Gln Lys Glu

165 170

<210> 29

<211> 173

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 29

Pro His Ala Cys Pro Ala Glu Gly Cys Asp Arg Arg Phe Ser Arg Ser

1 5 10 15

Asp Asn Leu Val Arg His Leu Arg Ile His Thr Gly His Lys Pro Phe

20 25 30

Gln Cys Arg Ile Cys Met Arg Ser Phe Ser Arg Glu Asp Asn Leu His

35 40 45

Thr His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Glu Phe

50 55 60

Cys Gly Arg Lys Phe Ala Arg Ser Asp Glu Leu Val Arg His Ala Lys

65 70 75 80

Ile His Leu Lys Gln Lys Glu His Ala Cys Pro Ala Glu Gly Cys Asp

85 90 95

Arg Arg Phe Ser Gln Ser Gly Asn Leu Thr Glu His Leu Arg Ile His

100 105 110

Thr Gly His Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Ser Phe Ser

115 120 125

Thr Ser Gly His Leu Val Arg His Ile Arg Thr His Thr Gly Glu Lys

130 135 140

Pro Phe Ala Cys Glu Phe Cys Gly Arg Lys Phe Ala Gln Asn Ser Thr

145 150 155 160

Leu Thr Glu His Ala Lys Ile His Leu Lys Gln Lys Glu

165 170

<210> 30

<211> 173

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 30

Pro His Ala Cys Pro Ala Glu Gly Cys Asp Arg Arg Phe Ser Arg Ser

1 5 10 15

Asp Asn Leu Val Arg His Leu Arg Ile His Thr Gly His Lys Pro Phe

20 25 30

Gln Cys Arg Ile Cys Met Arg Ser Phe Ser His Arg Thr Thr Leu Thr

35 40 45

Asn His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Glu Phe

50 55 60

Cys Gly Arg Lys Phe Ala Arg Glu Asp Asn Leu His Thr His Ala Lys

65 70 75 80

Ile His Leu Lys Gln Lys Glu His Ala Cys Pro Ala Glu Gly Cys Asp

85 90 95

Arg Arg Phe Ser Thr Ser His Ser Leu Thr Glu His Leu Arg Ile His

100 105 110

Thr Gly His Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Ser Phe Ser

115 120 125

Gln Ser Ser Ser Leu Val Arg His Ile Arg Thr His Thr Gly Glu Lys

130 135 140

Pro Phe Ala Cys Glu Phe Cys Gly Arg Lys Phe Ala Arg Glu Asp Asn

145 150 155 160

Leu His Thr His Ala Lys Ile His Leu Lys Gln Lys Glu

165 170

<210> 31

<211> 259

<212> PRT

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Polipéptido sintético

<400> 31

Pro His Ala Cys Pro Ala Glu Gly Cys Asp Arg Arg Phe Ser Arg Arg

1 5 10 15

Asp Glu Leu Asn Val His Leu Arg Ile His Thr Gly His Lys Pro Phe

20 25 30

Gln Cys Arg Ile Cys Met Arg Ser Phe Ser Arg Ser Asp His Leu Thr

35 40 45

Asn His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Glu Phe

50 55 60

Cys Gly Arg Lys Phe Ala Arg Ser Asp Asp Leu Val Arg His Ala Lys

65 70 75 80

Ile His Leu Lys Gln Lys Glu His Ala Cys Pro Ala Glu Gly Cys Asp

85 90 95

Arg Arg Phe Ser Arg Ser Asp Asn Leu Val Arg His Leu Arg Ile His

100 105 110

Thr Gly His Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Ser Phe Ser

115 120 125

His Arg Thr Thr Leu Thr Asn His Ile Arg Thr His Thr Gly Glu Lys

130 135 140

Pro Phe Ala Cys Glu Phe Cys Gly Arg Lys Phe Ala Arg Glu Asp Asn

145 150 155 160

Leu His Thr His Ala Lys Ile His Leu Lys Gln Lys Glu His Ala Cys

165 170 175

Pro Ala Glu Gly Cys Asp Arg Arg Phe Ser Thr Ser His Ser Leu Thr

180 185 190

Glu His Leu Arg Ile His Thr Gly His Lys Pro Phe Gln Cys Arg Ile

195 200 205

Cys Met Arg Ser Phe Ser Gln Ser Ser Ser Leu Val Arg His Ile Arg

210 215 220

Thr His Thr Gly Glu Lys Pro Phe Ala Cys Glu Phe Cys Gly Arg Lys

225 230 235 240

Phe Ala Arg Glu Asp Asn Leu His Thr His Ala Lys Ile His Leu Lys

245 250 255

Gln Lys Glu

<210> 32

<211> 173

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Polipéptido sintético

<400> 32

Pro His Ala Cys Pro Ala Glu Gly Cys Asp Arg Arg Phe Ser Ser Pro

1 5 10 15

Ala Asp Leu Thr Arg His Leu Arg Ile His Thr Gly His Lys Pro Phe

20 25 30

Gln Cys Arg Ile Cys Met Arg Ser Phe Ser Asp Ser Gly Asn Leu Arg

35 40 45

Val His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Glu Phe

50 55 60

Cys Gly Arg Lys Phe Ala Gln Leu Ala His Leu Arg Ala His Ala Lys

65 70 75 80

Ile His Leu Lys Gln Lys Glu His Ala Cys Pro Ala Glu Gly Cys Asp

85 90 95

Arg Arg Phe Ser Gln Arg Ala Asn Leu Arg Ala His Leu Arg Ile His

100 105 110

Thr Gly His Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Ser Phe Ser

115 120 125

Arg Glu Asp Asn Leu His Thr His Ile Arg Thr His Thr Gly Glu Lys

130 135 140

Pro Phe Ala Cys Glu Phe Cys Gly Arg Lys Phe Ala Arg Ser Asp Asn

145 150 155 160

Leu Val Arg His Ala Lys Ile His Leu Lys Gln Lys Glu

165 170

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péptido sintético

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<400> 39

Cys Xaa Cys Xaa His Xaa His

1 5

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Cys Xaa Cys Xaa Cys Xaa His Xaa Xaa Xaa Cys Xaa Cys Xaa Cys Xaa

1 5 10 15

Cys

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Cys Xaa Cys Xaa Cys Xaa Cys Xaa Xaa Xaa His Xaa Cys Xaa Cys Xaa

1 5 10 15

Cys

<210> 42

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péptido sintético

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Cys Xaa Cys Xaa His Xaa Cys Xaa Cys Xaa Cys Xaa Cys Xaa Xaa

1 5 10 15

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Cys Xaa Cys Xaa Cys Xaa Cys Xaa Xaa Xaa Cys Xaa Cys Xaa Cys Xaa

1 5 10 15

Cys

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péptido sintético

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<400> 44

Cys Xaa Cys Xaa Cys Xaa His

1 5

<210> 45

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péptido sintético

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<400> 45

Cys Xaa Cys Xaa His Xaa Cys

1 5

<210> 46

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Cys Xaa Cys Xaa His Xaa Cys Xaa Xaa Xaa Cys Xaa Cys Xaa His Xaa

1 5 10 15

Cys

<210> 47

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<222> (16)..(16)

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Cys Xaa Cys Xaa Cys Xaa Cys Xaa Xaa Xaa Cys Xaa Cys Xaa His Xaa

1 5 10 15

Cys

<210> 48

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péptido sintético

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<222> (6)..(6)

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<400> 48

Cys Xaa Cys Xaa Cys Xaa Cys

1 5

<210> 49

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péptido sintético

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<220>

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<222> (16)..(16)

<223> Cualquier amino ácido

<400> 49

Cys Xaa Cys Xaa Cys Xaa Cys Xaa Xaa Xaa Cys Xaa His Xaa His Xaa

1 5 10 15

Cys

<210> 50

<211> 220

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 50

Met Ala Pro Lys Lys Lys Arg Lys Val Gly Ile His Gly Val Pro Ala
1 5 10 15

Ala Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys
20 25 30

Ser Phe Ser Arg Arg Asp Glu Leu Asn Val His Gln Arg Thr His Thr
35 40 45

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Ser
50 55 60

Arg Arg Thr Cys Arg Ala His Gln Arg Thr His Thr Gly Glu Lys Pro
65 70 75 80

Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Ser Ser Asn Leu
85 90 95

Val Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro
100 105 110

Glu Cys Gly Lys Ser Phe Ser Gln Leu Ala His Leu Arg Ala His Gln

115 120 125

Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

130 135 140

Ser Phe Ser Thr Ser Gly Asn Leu Val Arg His Gln Arg Thr His Thr

145 150 155 160

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser His

165 170 175

Arg Thr Thr Leu Thr Asn His Gln Arg Thr His Thr Gly Lys Lys Thr

180 185 190

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

195 200 205

Lys Gly Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala

210 215 220

<210> 51

<211> 272

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 51

Met Ala Pro Lys Lys Lys Arg Lys Val Gly Ile His Gly Val Pro Ala
1 5 10 15

Ala Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys
20 25 30

Ser Phe Ser Arg Arg Asp Glu Leu Asn Val His Gln Arg Thr His Thr
35 40 45

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Ser
50 55 60

Arg Arg Thr Cys Arg Ala His Gln Arg Thr His Thr Gly Glu Lys Pro
65 70 75 80

Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Ser Ser Asn Leu
85 90 95

Val Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro

100 105 110

Glu Cys Gly Lys Ser Phe Ser Gln Leu Ala His Leu Arg Ala His Gln

115 120 125

Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

130 135 140

Ser Phe Ser Thr Ser Gly Asn Leu Val Arg His Gln Arg Thr His Thr

145 150 155 160

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser His

165 170 175

Arg Thr Thr Leu Thr Asn His Gln Arg Thr His Thr Gly Lys Lys Thr

180 185 190

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

195 200 205

Lys Gly Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Leu Glu Asp Ala

210 215 220

Leu Asp Asp Phe Asp Leu Asp Met Leu Gly Ser Asp Ala Leu Asp Asp

225 230 235 240

Phe Asp Leu Asp Met Leu Gly Ser Asp Ala Leu Asp Asp Phe Asp Leu

245 250 255

Asp Met Leu Gly Ser Asp Ala Leu Asp Asp Phe Asp Leu Asp Met Leu

260 265 270

<210> 52

<211> 497

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 52

Met Ala Pro Lys Lys Lys Arg Lys Val Gly Ile His Gly Val Pro Ala

1 5 10 15

Ala Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

20 25 30

Ser Phe Ser Arg Arg Asp Glu Leu Asn Val His Gln Arg Thr His Thr

35 40 45

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Ser

50 55 60

Arg Arg Thr Cys Arg Ala His Gln Arg Thr His Thr Gly Glu Lys Pro

65 70 75 80

Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Ser Ser Asn Leu

85 90 95

Val Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro

100 105 110

Glu Cys Gly Lys Ser Phe Ser Gln Leu Ala His Leu Arg Ala His Gln

115 120 125

Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

130 135 140

Ser Phe Ser Thr Ser Gly Asn Leu Val Arg His Gln Arg Thr His Thr

145 150 155 160

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser His

165 170 175

Arg Thr Thr Leu Thr Asn His Gln Arg Thr His Thr Gly Lys Lys Thr

180 185 190

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

195 200 205

Lys Gly Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Leu Glu Met Ser

210 215 220

Gly Leu Glu Met Ala Asp His Met Met Ala Met Asn His Gly Arg Phe

225 230 235 240

Pro Asp Gly Thr Asn Gly Leu His His His Pro Ala His Arg Met Gly

245 250 255

Met Gly Gln Phe Pro Ser Pro His His His Gln Gln Gln Gln Pro Gln

260 265 270

His Ala Phe Asn Ala Leu Met Gly Glu His Ile His Tyr Gly Ala Gly

275 280 285

Asn Met Asn Ala Thr Ser Gly Ile Arg His Ala Met Gly Pro Gly Thr

290 295 300

Val Asn Gly Gly His Pro Pro Ser Ala Leu Ala Pro Ala Ala Arg Phe

305 310 315 320

Asn Asn Ser Gln Phe Met Gly Pro Pro Val Ala Ser Gln Gly Gly Ser

325 330 335

Leu Pro Ala Ser Met Gln Leu Gln Lys Leu Asn Asn Gln Tyr Phe Asn

340 345 350

His His Pro Tyr Pro His Asn His Tyr Met Pro Asp Leu His Pro Ala

355 360 365

Ala Gly His Gln Met Asn Gly Thr Asn Gln His Phe Arg Asp Cys Asn

370 375 380

Pro Lys His Ser Gly Gly Ser Ser Thr Pro Gly Gly Ser Gly Gly Ser

385 390 395 400

Ser Thr Pro Gly Gly Ser Gly Ser Ser Ser Gly Gly Gly Ala Gly Ser

405 410 415

Ser Asn Ser Gly Gly Gly Ser Gly Ser Gly Asn Met Pro Ala Ser Val

420 425 430

Ala His Val Pro Ala Ala Met Leu Pro Pro Asn Val Ile Asp Thr Asp

435 440 445

Phe Ile Asp Glu Glu Val Leu Met Ser Leu Val Ile Glu Met Gly Leu

450 455 460

Asp Arg Ile Lys Glu Leu Pro Glu Leu Trp Leu Gly Gln Asn Glu Phe

465 470 475 480

Asp Phe Met Thr Asp Phe Val Cys Lys Gln Gln Pro Ser Arg Val Ser

485 490 495

Cys

<210> 53

<211> 406

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 53

Met Ala Pro Lys Lys Lys Arg Lys Val Gly Ile His Gly Val Pro Ala
1 5 10 15

Ala Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys
20 25 30

Ser Phe Ser Arg Arg Asp Glu Leu Asn Val His Gln Arg Thr His Thr
35 40 45

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Ser
50 55 60

Arg Arg Thr Cys Arg Ala His Gln Arg Thr His Thr Gly Glu Lys Pro
65 70 75 80

Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Ser Ser Asn Leu
85 90 95

Val Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro

100 105 110

Glu Cys Gly Lys Ser Phe Ser Gln Leu Ala His Leu Arg Ala His Gln

115 120 125

Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

130 135 140

Ser Phe Ser Thr Ser Gly Asn Leu Val Arg His Gln Arg Thr His Thr

145 150 155 160

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser His

165 170 175

Arg Thr Thr Leu Thr Asn His Gln Arg Thr His Thr Gly Lys Lys Thr

180 185 190

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

195 200 205

Lys Gly Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Leu Glu Met Ala

210 215 220

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

225 230 235 240

Ser Ala Ala Ala Ala His Gly Pro His Ala Leu Arg Thr Leu Pro Pro

245 250 255

Tyr Ala Gly Pro Gly Leu Asp Ser Gly Leu Arg Pro Arg Gly Ala Pro

260 265 270

Leu Gly Pro Pro Pro Pro Arg Gln Pro Gly Ala Leu Ala Tyr Gly Ala

275 280 285

Phe Gly Pro Pro Ser Ser Phe Gln Pro Phe Pro Ala Val Pro Pro Pro

290 295 300

Ala Ala Gly Ile Ala His Leu Gln Pro Val Ala Thr Pro Tyr Pro Gly

305 310 315 320

Arg Ala Ala Ala Pro Pro Asn Ala Pro Gly Gly Pro Pro Gly Pro Gln

325 330 335

Pro Ala Pro Ser Ala Ala Ala Pro Pro Pro Pro Ala His Ala Leu Gly

340 345 350

Gly Met Asp Ala Glu Leu Ile Asp Glu Glu Ala Leu Thr Ser Leu Glu

355 360 365

Leu Glu Leu Gly Leu His Arg Val Arg Glu Leu Pro Glu Leu Phe Leu

370 375 380

Gly Gln Ser Glu Phe Asp Cys Phe Ser Asp Leu Gly Ser Ala Pro Pro

385 390 395 400

Ala Gly Ser Val Ser Cys

405

<210> 54

<211> 597

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 54

Met Ala Ala Asp His Leu Met Leu Ala Glu Gly Tyr Arg Leu Val Gln

1 5 10 15

Arg Pro Pro Ser Ala Ala Ala Ala His Gly Pro His Ala Leu Arg Thr

20 25 30

Leu Pro Pro Tyr Ala Gly Pro Gly Leu Asp Ser Gly Leu Arg Pro Arg

35 40 45

Gly Ala Pro Leu Gly Pro Pro Pro Pro Arg Gln Pro Gly Ala Leu Ala

50 55 60

Tyr Gly Ala Phe Gly Pro Pro Ser Ser Phe Gln Pro Phe Pro Ala Val

65 70 75 80

Pro Pro Pro Ala Ala Gly Ile Ala His Leu Gln Pro Val Ala Thr Pro

85 90 95

Tyr Pro Gly Arg Ala Ala Ala Pro Pro Asn Ala Pro Gly Gly Pro Pro

100 105 110

Gly Pro Gln Pro Ala Pro Ser Ala Ala Ala Pro Pro Pro Pro Ala His

115 120 125

Ala Leu Gly Gly Met Asp Ala Glu Leu Ile Asp Glu Glu Ala Leu Thr

130 135 140

Ser Leu Glu Leu Glu Leu Gly Leu His Arg Val Arg Glu Leu Pro Glu

145 150 155 160

Leu Phe Leu Gly Gln Ser Glu Phe Asp Cys Phe Ser Asp Leu Gly Ser

165 170 175

Ala Pro Pro Ala Gly Ser Val Ser Cys Gly Gly Ser Gly Gly Gly Ser

180 185 190

Gly Pro Lys Lys Lys Arg Lys Val Gly Ile His Gly Val Pro Ala Ala

195 200 205

Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

210 215 220

Phe Ser Arg Arg Asp Glu Leu Asn Val His Gln Arg Thr His Thr Gly

225 230 235 240

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Ser Arg

245 250 255

Arg Thr Cys Arg Ala His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr

260 265 270

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Ser Ser Asn Leu Val
275 280 285

Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu
290 295 300

Cys Gly Lys Ser Phe Ser Gln Leu Ala His Leu Arg Ala His Gln Arg
305 310 315 320

Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser
325 330 335

Phe Ser Thr Ser Gly Asn Leu Val Arg His Gln Arg Thr His Thr Gly
340 345 350

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser His Arg
355 360 365

Thr Thr Leu Thr Asn His Gln Arg Thr His Thr Gly Lys Lys Thr Ser
370 375 380

Lys Arg Pro Ala Ala Thr Lys Lys Ala Gly Gln Ala Lys Lys Lys Lys

385 390 395 400

Gly Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Leu Glu Met Ala Asp

405 410 415

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

420 425 430

Ala Ala Ala Ala His Gly Pro His Ala Leu Arg Thr Leu Pro Pro Tyr

435 440 445

Ala Gly Pro Gly Leu Asp Ser Gly Leu Arg Pro Arg Gly Ala Pro Leu

450 455 460

Gly Pro Pro Pro Pro Arg Gln Pro Gly Ala Leu Ala Tyr Gly Ala Phe

465 470 475 480

Gly Pro Pro Ser Ser Phe Gln Pro Phe Pro Ala Val Pro Pro Pro Ala

485 490 495

Ala Gly Ile Ala His Leu Gln Pro Val Ala Thr Pro Tyr Pro Gly Arg

500 505 510

Ala Ala Ala Pro Pro Asn Ala Pro Gly Gly Pro Pro Gly Pro Gln Pro

515 520 525

Ala Pro Ser Ala Ala Ala Pro Pro Pro Pro Ala His Ala Leu Gly Gly

530 535 540

Met Asp Ala Glu Leu Ile Asp Glu Glu Ala Leu Thr Ser Leu Glu Leu

545 550 555 560

Glu Leu Gly Leu His Arg Val Arg Glu Leu Pro Glu Leu Phe Leu Gly

565 570 575

Gln Ser Glu Phe Asp Cys Phe Ser Asp Leu Gly Ser Ala Pro Pro Ala

580 585 590

Gly Ser Val Ser Cys

595

<210> 55

<211> 479

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 55

Met Gln Ser Gln Leu Ile Lys Pro Ser Arg Met Arg Lys Tyr Pro Asn
1 5 10 15

Arg Pro Ser Lys Thr Pro Pro His Glu Arg Pro Tyr Ala Cys Pro Val
20 25 30

Glu Ser Cys Asp Arg Arg Phe Ser Arg Arg Asp Glu Leu Asn Val His
35 40 45

Ile Arg Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met
50 55 60

Arg Asn Phe Ser Ser Arg Arg Thr Cys Arg Ala His Ile Arg Thr His
65 70 75 80

Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala
85 90 95

Gln Ser Ser Asn Leu Val Arg His Thr Lys Ile His Leu Arg Gln Lys
100 105 110

Asp Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser

115 120 125

Gln Leu Ala His Leu Arg Ala His Ile Arg Ile His Thr Gly Gln Lys

130 135 140

Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Thr Ser Gly Asn

145 150 155 160

Leu Val Arg His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys

165 170 175

Asp Ile Cys Gly Arg Lys Phe Ala His Arg Thr Thr Leu Thr Asn His

180 185 190

Thr Lys Ile His Leu Arg Gln Lys Asp Lys Leu Glu Met Ser Gly Leu

195 200 205

Glu Met Ala Asp His Met Met Ala Met Asn His Gly Arg Phe Pro Asp

210 215 220

Gly Thr Asn Gly Leu His His His Pro Ala His Arg Met Gly Met Gly

225 230 235 240

Gln Phe Pro Ser Pro His His His Gln Gln Gln Gln Pro Gln His Ala

245 250 255

Phe Asn Ala Leu Met Gly Glu His Ile His Tyr Gly Ala Gly Asn Met

260 265 270

Asn Ala Thr Ser Gly Ile Arg His Ala Met Gly Pro Gly Thr Val Asn

275 280 285

Gly Gly His Pro Pro Ser Ala Leu Ala Pro Ala Ala Arg Phe Asn Asn

290 295 300

Ser Gln Phe Met Gly Pro Pro Val Ala Ser Gln Gly Gly Ser Leu Pro

305 310 315 320

Ala Ser Met Gln Leu Gln Lys Leu Asn Asn Gln Tyr Phe Asn His His

325 330 335

Pro Tyr Pro His Asn His Tyr Met Pro Asp Leu His Pro Ala Ala Gly

340 345 350

His Gln Met Asn Gly Thr Asn Gln His Phe Arg Asp Cys Asn Pro Lys

355 360 365

His Ser Gly Gly Ser Ser Thr Pro Gly Gly Ser Gly Gly Ser Ser Thr

370 375 380

Pro Gly Gly Ser Gly Ser Ser Ser Gly Gly Gly Ala Gly Ser Ser Asn

385 390 395 400

Ser Gly Gly Gly Ser Gly Ser Gly Asn Met Pro Ala Ser Val Ala His

405 410 415

Val Pro Ala Ala Met Leu Pro Pro Asn Val Ile Asp Thr Asp Phe Ile

420 425 430

Asp Glu Glu Val Leu Met Ser Leu Val Ile Glu Met Gly Leu Asp Arg

435 440 445

Ile Lys Glu Leu Pro Glu Leu Trp Leu Gly Gln Asn Glu Phe Asp Phe

450 455 460

Met Thr Asp Phe Val Cys Lys Gln Gln Pro Ser Arg Val Ser Cys

465 470 475

<210> 56

<211> 476

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 56

Met Ser Gly Leu Glu Met Ala Asp His Met Met Ala Met Asn His Gly
1 5 10 15

Arg Phe Pro Asp Gly Thr Asn Gly Leu His His His Pro Ala His Arg
20 25 30

Met Gly Met Gly Gln Phe Pro Ser Pro His His His Gln Gln Gln Gln
35 40 45

Pro Gln His Ala Phe Asn Ala Leu Met Gly Glu His Ile His Tyr Gly
50 55 60

Ala Gly Asn Met Asn Ala Thr Ser Gly Val Arg His Ala Met Gly Pro
65 70 75 80

Gly Thr Val Asn Gly Gly His Pro Pro Ser Ala Leu Ala Pro Ala Ala

85 90 95

Arg Phe Asn Asn Ser Gln Phe Met Gly Pro Pro Val Ala Ser Gln Gly

100 105 110

Gly Ser Leu Pro Ala Ser Met Gln Leu Gln Lys Leu Asn Asn Gln Tyr

115 120 125

Phe Asn His His Pro Tyr Pro His Asn His Tyr Met Pro Asp Leu His

130 135 140

Pro Ala Ala Gly His Gln Met Asn Gly Thr Asn Gln His Phe Arg Asp

145 150 155 160

Cys Asn Pro Lys His Ser Gly Gly Ser Ser Thr Pro Gly Gly Ser Gly

165 170 175

Gly Ser Ser Thr Pro Gly Gly Ser Gly Ser Ser Ser Gly Gly Gly Ala

180 185 190

Gly Ser Ser Asn Ser Gly Gly Gly Ser Gly Ser Gly Asn Met Pro Ala

195 200 205

Ser Val Ala His Val Pro Ala Ala Met Leu Pro Pro Asn Val Ile Asp

210 215 220

Thr Asp Phe Ile Asp Glu Glu Val Leu Met Ser Leu Val Ile Glu Met

225 230 235 240

Gly Leu Asp Arg Ile Lys Glu Leu Pro Glu Leu Trp Leu Gly Gln Asn

245 250 255

Glu Phe Asp Phe Met Thr Asp Phe Val Cys Lys Gln Gln Pro Ser Arg

260 265 270

Val Ser Cys Gln Ser Gln Leu Ile Lys Pro Ser Arg Met Arg Lys Tyr

275 280 285

Pro Asn Arg Pro Ser Lys Thr Pro Pro His Glu Arg Pro Tyr Ala Cys

290 295 300

Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Arg Arg Asp Glu Leu Asn

305 310 315 320

Val His Ile Arg Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile

325 330 335

Cys Met Arg Asn Phe Ser Ser Arg Arg Thr Cys Arg Ala His Ile Arg

340 345 350

Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys

355 360 365

Phe Ala Gln Ser Ser Asn Leu Val Arg His Thr Lys Ile His Leu Arg

370 375 380

Gln Lys Asp Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg

385 390 395 400

Phe Ser Gln Leu Ala His Leu Arg Ala His Ile Arg Ile His Thr Gly

405 410 415

Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Thr Ser

420 425 430

Gly Asn Leu Val Arg His Ile Arg Thr His Thr Gly Glu Lys Pro Phe

435 440 445

Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala His Arg Thr Thr Leu Thr

450 455 460

Asn His Thr Lys Ile His Leu Arg Gln Lys Asp Lys

465 470 475

<210> 57

<211> 479

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 57

Met Gln Ser Gln Leu Ile Lys Pro Ser Arg Met Arg Lys Tyr Pro Asn

1 5 10 15

Arg Pro Ser Lys Thr Pro Pro His Glu Arg Pro Tyr Ala Cys Pro Val

20 25 30

Glu Ser Cys Asp Arg Arg Phe Ser Arg Ser Asp Asn Leu Val Arg His

35 40 45

Ile Arg Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met

50 55 60

Arg Asn Phe Ser Arg Glu Asp Asn Leu His Thr His Ile Arg Thr His

65 70 75 80

Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala

85 90 95

Arg Ser Asp Glu Leu Val Arg His Thr Lys Ile His Leu Arg Gln Lys

100 105 110

Asp Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser

115 120 125

Gln Ser Gly Asn Leu Thr Glu His Ile Arg Ile His Thr Gly Gln Lys

130 135 140

Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Thr Ser Gly His

145 150 155 160

Leu Val Arg His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys

165 170 175

Asp Ile Cys Gly Arg Lys Phe Ala Gln Asn Ser Thr Leu Thr Glu His

180 185 190

Thr Lys Ile His Leu Arg Gln Lys Asp Lys Leu Glu Met Ser Gly Leu

195 200 205

Glu Met Ala Asp His Met Met Ala Met Asn His Gly Arg Phe Pro Asp

210 215 220

Gly Thr Asn Gly Leu His His His Pro Ala His Arg Met Gly Met Gly

225 230 235 240

Gln Phe Pro Ser Pro His His His Gln Gln Gln Gln Pro Gln His Ala

245 250 255

Phe Asn Ala Leu Met Gly Glu His Ile His Tyr Gly Ala Gly Asn Met

260 265 270

Asn Ala Thr Ser Gly Ile Arg His Ala Met Gly Pro Gly Thr Val Asn

275 280 285

Gly Gly His Pro Pro Ser Ala Leu Ala Pro Ala Ala Arg Phe Asn Asn

290 295 300

Ser Gln Phe Met Gly Pro Pro Val Ala Ser Gln Gly Gly Ser Leu Pro

305 310 315 320

Ala Ser Met Gln Leu Gln Lys Leu Asn Asn Gln Tyr Phe Asn His His

325 330 335

Pro Tyr Pro His Asn His Tyr Met Pro Asp Leu His Pro Ala Ala Gly

340 345 350

His Gln Met Asn Gly Thr Asn Gln His Phe Arg Asp Cys Asn Pro Lys

355 360 365

His Ser Gly Gly Ser Ser Thr Pro Gly Gly Ser Gly Gly Ser Ser Thr

370 375 380

Pro Gly Gly Ser Gly Ser Ser Ser Gly Gly Gly Ala Gly Ser Ser Asn

385 390 395 400

Ser Gly Gly Gly Ser Gly Ser Gly Asn Met Pro Ala Ser Val Ala His

405 410 415

Val Pro Ala Ala Met Leu Pro Pro Asn Val Ile Asp Thr Asp Phe Ile

420 425 430

Asp Glu Glu Val Leu Met Ser Leu Val Ile Glu Met Gly Leu Asp Arg

435 440 445

Ile Lys Glu Leu Pro Glu Leu Trp Leu Gly Gln Asn Glu Phe Asp Phe

450 455 460

Met Thr Asp Phe Val Cys Lys Gln Gln Pro Ser Arg Val Ser Cys

465 470 475

<210> 58

<211> 476

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 58

Met Ser Gly Leu Glu Met Ala Asp His Met Met Ala Met Asn His Gly

1 5 10 15

Arg Phe Pro Asp Gly Thr Asn Gly Leu His His His Pro Ala His Arg

20 25 30

Met Gly Met Gly Gln Phe Pro Ser Pro His His His Gln Gln Gln Gln

35 40 45

Pro Gln His Ala Phe Asn Ala Leu Met Gly Glu His Ile His Tyr Gly
50 55 60

Ala Gly Asn Met Asn Ala Thr Ser Gly Val Arg His Ala Met Gly Pro
65 70 75 80

Gly Thr Val Asn Gly Gly His Pro Pro Ser Ala Leu Ala Pro Ala Ala
85 90 95

Arg Phe Asn Asn Ser Gln Phe Met Gly Pro Pro Val Ala Ser Gln Gly
100 105 110

Gly Ser Leu Pro Ala Ser Met Gln Leu Gln Lys Leu Asn Asn Gln Tyr
115 120 125

Phe Asn His His Pro Tyr Pro His Asn His Tyr Met Pro Asp Leu His
130 135 140

Pro Ala Ala Gly His Gln Met Asn Gly Thr Asn Gln His Phe Arg Asp
145 150 155 160

Cys Asn Pro Lys His Ser Gly Gly Ser Ser Thr Pro Gly Gly Ser Gly

165 170 175

Gly Ser Ser Thr Pro Gly Gly Ser Gly Ser Ser Ser Gly Gly Gly Ala

180 185 190

Gly Ser Ser Asn Ser Gly Gly Gly Ser Gly Ser Gly Asn Met Pro Ala

195 200 205

Ser Val Ala His Val Pro Ala Ala Met Leu Pro Pro Asn Val Ile Asp

210 215 220

Thr Asp Phe Ile Asp Glu Glu Val Leu Met Ser Leu Val Ile Glu Met

225 230 235 240

Gly Leu Asp Arg Ile Lys Glu Leu Pro Glu Leu Trp Leu Gly Gln Asn

245 250 255

Glu Phe Asp Phe Met Thr Asp Phe Val Cys Lys Gln Gln Pro Ser Arg

260 265 270

Val Ser Cys Gln Ser Gln Leu Ile Lys Pro Ser Arg Met Arg Lys Tyr

275 280 285

Pro Asn Arg Pro Ser Lys Thr Pro Pro His Glu Arg Pro Tyr Ala Cys

290 295 300

Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Arg Ser Asp Asn Leu Val

305 310 315 320

Arg His Ile Arg Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile

325 330 335

Cys Met Arg Asn Phe Ser Arg Glu Asp Asn Leu His Thr His Ile Arg

340 345 350

Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys

355 360 365

Phe Ala Arg Ser Asp Glu Leu Val Arg His Thr Lys Ile His Leu Arg

370 375 380

Gln Lys Asp Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg

385 390 395 400

Phe Ser Gln Ser Gly Asn Leu Thr Glu His Ile Arg Ile His Thr Gly

405 410 415

Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Thr Ser

420 425 430

Gly His Leu Val Arg His Ile Arg Thr His Thr Gly Glu Lys Pro Phe

435 440 445

Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Gln Asn Ser Thr Leu Thr

450 455 460

Glu His Thr Lys Ile His Leu Arg Gln Lys Asp Lys

465 470 475

<210> 59

<211> 479

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<220>

<221> MOD_RES

<222> (278)..(278)

<223> Ile or Val

<400> 59

Met Gln Ser Gln Leu Ile Lys Pro Ser Arg Met Arg Lys Tyr Pro Asn
1 5 10 15

Arg Pro Ser Lys Thr Pro Pro His Glu Arg Pro Tyr Ala Cys Pro Val
20 25 30

Glu Ser Cys Asp Arg Arg Phe Ser Ser Pro Ala Asp Leu Thr Arg His
35 40 45

Ile Arg Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met
50 55 60

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

Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala
85 90 95

Gln Leu Ala His Leu Arg Ala His Thr Lys Ile His Leu Arg Gln Lys
100 105 110

Asp Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser

115 120 125

Gln Arg Ala Asn Leu Arg Ala His Ile Arg Ile His Thr Gly Gln Lys

130 135 140

Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Glu Asp Asn

145 150 155 160

Leu His Thr His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys

165 170 175

Asp Ile Cys Gly Arg Lys Phe Ala Arg Ser Asp Asn Leu Val Arg His

180 185 190

Thr Lys Ile His Leu Arg Gln Lys Asp Lys Leu Glu Met Ser Gly Leu

195 200 205

Glu Met Ala Asp His Met Met Ala Met Asn His Gly Arg Phe Pro Asp

210 215 220

Gly Thr Asn Gly Leu His His His Pro Ala His Arg Met Gly Met Gly

225 230 235 240

Gln Phe Pro Ser Pro His His His Gln Gln Gln Gln Pro Gln His Ala

245 250 255

Phe Asn Ala Leu Met Gly Glu His Ile His Tyr Gly Ala Gly Asn Met

260 265 270

Asn Ala Thr Ser Gly Xaa Arg His Ala Met Gly Pro Gly Thr Val Asn

275 280 285

Gly Gly His Pro Pro Ser Ala Leu Ala Pro Ala Ala Arg Phe Asn Asn

290 295 300

Ser Gln Phe Met Gly Pro Pro Val Ala Ser Gln Gly Gly Ser Leu Pro

305 310 315 320

Ala Ser Met Gln Leu Gln Lys Leu Asn Asn Gln Tyr Phe Asn His His

325 330 335

Pro Tyr Pro His Asn His Tyr Met Pro Asp Leu His Pro Ala Ala Gly

340 345 350

His Gln Met Asn Gly Thr Asn Gln His Phe Arg Asp Cys Asn Pro Lys

355 360 365

His Ser Gly Gly Ser Ser Thr Pro Gly Gly Ser Gly Gly Ser Ser Thr

370 375 380

Pro Gly Gly Ser Gly Ser Ser Ser Gly Gly Gly Ala Gly Ser Ser Asn

385 390 395 400

Ser Gly Gly Gly Ser Gly Ser Gly Asn Met Pro Ala Ser Val Ala His

405 410 415

Val Pro Ala Ala Met Leu Pro Pro Asn Val Ile Asp Thr Asp Phe Ile

420 425 430

Asp Glu Glu Val Leu Met Ser Leu Val Ile Glu Met Gly Leu Asp Arg

435 440 445

Ile Lys Glu Leu Pro Glu Leu Trp Leu Gly Gln Asn Glu Phe Asp Phe

450 455 460

Met Thr Asp Phe Val Cys Lys Gln Gln Pro Ser Arg Val Ser Cys

465 470 475

<210> 60

<211> 476

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 60

Met Ser Gly Leu Glu Met Ala Asp His Met Met Ala Met Asn His Gly
1 5 10 15

Arg Phe Pro Asp Gly Thr Asn Gly Leu His His His Pro Ala His Arg
20 25 30

Met Gly Met Gly Gln Phe Pro Ser Pro His His His Gln Gln Gln Gln
35 40 45

Pro Gln His Ala Phe Asn Ala Leu Met Gly Glu His Ile His Tyr Gly
50 55 60

Ala Gly Asn Met Asn Ala Thr Ser Gly Val Arg His Ala Met Gly Pro
65 70 75 80

Gly Thr Val Asn Gly Gly His Pro Pro Ser Ala Leu Ala Pro Ala Ala
85 90 95

Arg Phe Asn Asn Ser Gln Phe Met Gly Pro Pro Val Ala Ser Gln Gly

100 105 110

Gly Ser Leu Pro Ala Ser Met Gln Leu Gln Lys Leu Asn Asn Gln Tyr

115 120 125

Phe Asn His His Pro Tyr Pro His Asn His Tyr Met Pro Asp Leu His

130 135 140

Pro Ala Ala Gly His Gln Met Asn Gly Thr Asn Gln His Phe Arg Asp

145 150 155 160

Cys Asn Pro Lys His Ser Gly Gly Ser Ser Thr Pro Gly Gly Ser Gly

165 170 175

Gly Ser Ser Thr Pro Gly Gly Ser Gly Ser Ser Ser Gly Gly Gly Ala

180 185 190

Gly Ser Ser Asn Ser Gly Gly Gly Ser Gly Ser Gly Asn Met Pro Ala

195 200 205

Ser Val Ala His Val Pro Ala Ala Met Leu Pro Pro Asn Val Ile Asp

210 215 220

Thr Asp Phe Ile Asp Glu Glu Val Leu Met Ser Leu Val Ile Glu Met

225 230 235 240

Gly Leu Asp Arg Ile Lys Glu Leu Pro Glu Leu Trp Leu Gly Gln Asn

245 250 255

Glu Phe Asp Phe Met Thr Asp Phe Val Cys Lys Gln Gln Pro Ser Arg

260 265 270

Val Ser Cys Gln Ser Gln Leu Ile Lys Pro Ser Arg Met Arg Lys Tyr

275 280 285

Pro Asn Arg Pro Ser Lys Thr Pro Pro His Glu Arg Pro Tyr Ala Cys

290 295 300

Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Arg Arg Asp Glu Leu Asn

305 310 315 320

Val His Ile Arg Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile

325 330 335

Cys Met Arg Asn Phe Ser Ser Arg Arg Thr Cys Arg Ala His Ile Arg

340 345 350

Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys

355 360 365

Phe Ala Gln Ser Ser Asn Leu Val Arg His Thr Lys Ile His Leu Arg

370 375 380

Gln Lys Asp Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg

385 390 395 400

Phe Ser Gln Leu Ala His Leu Arg Ala His Ile Arg Ile His Thr Gly

405 410 415

Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Thr Ser

420 425 430

Gly Asn Leu Val Arg His Ile Arg Thr His Thr Gly Glu Lys Pro Phe

435 440 445

Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala His Arg Thr Thr Leu Thr

450 455 460

Asn His Thr Lys Ile His Leu Arg Gln Lys Asp Lys

465 470 475

<210> 61

<211> 388

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 61

Met Gln Ser Gln Leu Ile Lys Pro Ser Arg Met Arg Lys Tyr Pro Asn

1 5 10 15

Arg Pro Ser Lys Thr Pro Pro His Glu Arg Pro Tyr Ala Cys Pro Val

20 25 30

Glu Ser Cys Asp Arg Arg Phe Ser Arg Ser Asp Asn Leu Val Arg His

35 40 45

Ile Arg Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met

50 55 60

Arg Asn Phe Ser Arg Glu Asp Asn Leu His Thr His Ile Arg Thr His

65 70 75 80

Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala

85 90 95

Arg Ser Asp Glu Leu Val Arg His Thr Lys Ile His Leu Arg Gln Lys

100 105 110

Asp Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser

115 120 125

Gln Ser Gly Asn Leu Thr Glu His Ile Arg Ile His Thr Gly Gln Lys

130 135 140

Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Thr Ser Gly His

145 150 155 160

Leu Val Arg His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys

165 170 175

Asp Ile Cys Gly Arg Lys Phe Ala Gln Asn Ser Thr Leu Thr Glu His

180 185 190

Thr Lys Ile His Leu Arg Gln Lys Asp Lys Leu Glu Met Ala Asp His

195 200 205

Leu Met Leu Ala Glu Gly Tyr Arg Leu Val Gln Arg Pro Pro Ser Ala

210 215 220

Ala Ala Ala His Gly Pro His Ala Leu Arg Thr Leu Pro Pro Tyr Ala

225 230 235 240

Gly Pro Gly Leu Asp Ser Gly Leu Arg Pro Arg Gly Ala Pro Leu Gly

245 250 255

Pro Pro Pro Pro Arg Gln Pro Gly Ala Leu Ala Tyr Gly Ala Phe Gly

260 265 270

Pro Pro Ser Ser Phe Gln Pro Phe Pro Ala Val Pro Pro Pro Ala Ala

275 280 285

Gly Ile Ala His Leu Gln Pro Val Ala Thr Pro Tyr Pro Gly Arg Ala

290 295 300

Ala Ala Pro Pro Asn Ala Pro Gly Gly Pro Pro Gly Pro Gln Pro Ala

305 310 315 320

Pro Ser Ala Ala Ala Pro Pro Pro Pro Ala His Ala Leu Gly Gly Met

325 330 335

Asp Ala Glu Leu Ile Asp Glu Glu Ala Leu Thr Ser Leu Glu Leu Glu

340 345 350

Leu Gly Leu His Arg Val Arg Glu Leu Pro Glu Leu Phe Leu Gly Gln

355 360 365

Ser Glu Phe Asp Cys Phe Ser Asp Leu Gly Ser Ala Pro Pro Ala Gly

370 375 380

Ser Val Ser Cys

385

<210> 62

<211> 580

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 62

Met Ala Ala Asp His Leu Met Leu Ala Glu Gly Tyr Arg Leu Val Gln
1 5 10 15

Arg Pro Pro Ser Ala Ala Ala Ala His Gly Pro His Ala Leu Arg Thr
20 25 30

Leu Pro Pro Tyr Ala Gly Pro Gly Leu Asp Ser Gly Leu Arg Pro Arg
35 40 45

Gly Ala Pro Leu Gly Pro Pro Pro Pro Arg Gln Pro Gly Ala Leu Ala
50 55 60

Tyr Gly Ala Phe Gly Pro Pro Ser Ser Phe Gln Pro Phe Pro Ala Val
65 70 75 80

Pro Pro Pro Ala Ala Gly Ile Ala His Leu Gln Pro Val Ala Thr Pro
85 90 95

Tyr Pro Gly Arg Ala Ala Ala Pro Pro Asn Ala Pro Gly Gly Pro Pro
100 105 110

Gly Pro Gln Pro Ala Pro Ser Ala Ala Ala Pro Pro Pro Pro Ala His
115 120 125

Ala Leu Gly Gly Met Asp Ala Glu Leu Ile Asp Glu Glu Ala Leu Thr

130 135 140

Ser Leu Glu Leu Glu Leu Gly Leu His Arg Val Arg Glu Leu Pro Glu

145 150 155 160

Leu Phe Leu Gly Gln Ser Glu Phe Asp Cys Phe Ser Asp Leu Gly Ser

165 170 175

Ala Pro Pro Ala Gly Ser Val Ser Cys Gly Gly Ser Gly Gly Gly Ser

180 185 190

Gly Gln Ser Gln Leu Ile Lys Pro Ser Arg Met Arg Lys Tyr Pro Asn

195 200 205

Arg Pro Ser Lys Thr Pro Pro His Glu Arg Pro Tyr Ala Cys Pro Val

210 215 220

Glu Ser Cys Asp Arg Arg Phe Ser Arg Ser Asp Asn Leu Val Arg His

225 230 235 240

Ile Arg Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met

245 250 255

Arg Asn Phe Ser Arg Glu Asp Asn Leu His Thr His Ile Arg Thr His

260 265 270

Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala

275 280 285

Arg Ser Asp Glu Leu Val Arg His Thr Lys Ile His Leu Arg Gln Lys

290 295 300

Asp Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser

305 310 315 320

Gln Ser Gly Asn Leu Thr Glu His Ile Arg Ile His Thr Gly Gln Lys

325 330 335

Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Thr Ser Gly His

340 345 350

Leu Val Arg His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys

355 360 365

Asp Ile Cys Gly Arg Lys Phe Ala Gln Asn Ser Thr Leu Thr Glu His

370 375 380

Thr Lys Ile His Leu Arg Gln Lys Asp Lys Leu Glu Met Ala Asp His

385 390 395 400

Leu Met Leu Ala Glu Gly Tyr Arg Leu Val Gln Arg Pro Pro Ser Ala

405 410 415

Ala Ala Ala His Gly Pro His Ala Leu Arg Thr Leu Pro Pro Tyr Ala

420 425 430

Gly Pro Gly Leu Asp Ser Gly Leu Arg Pro Arg Gly Ala Pro Leu Gly

435 440 445

Pro Pro Pro Pro Arg Gln Pro Gly Ala Leu Ala Tyr Gly Ala Phe Gly

450 455 460

Pro Pro Ser Ser Phe Gln Pro Phe Pro Ala Val Pro Pro Pro Ala Ala

465 470 475 480

Gly Ile Ala His Leu Gln Pro Val Ala Thr Pro Tyr Pro Gly Arg Ala

485 490 495

Ala Ala Pro Pro Asn Ala Pro Gly Gly Pro Pro Gly Pro Gln Pro Ala

500 505 510

Pro Ser Ala Ala Ala Pro Pro Pro Pro Ala His Ala Leu Gly Gly Met

515 520 525

Asp Ala Glu Leu Ile Asp Glu Glu Ala Leu Thr Ser Leu Glu Leu Glu

530 535 540

Leu Gly Leu His Arg Val Arg Glu Leu Pro Glu Leu Phe Leu Gly Gln

545 550 555 560

Ser Glu Phe Asp Cys Phe Ser Asp Leu Gly Ser Ala Pro Pro Ala Gly

565 570 575

Ser Val Ser Cys

580

<210> 63

<211> 388

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 63

Met Gln Ser Gln Leu Ile Lys Pro Ser Arg Met Arg Lys Tyr Pro Asn
1 5 10 15

Arg Pro Ser Lys Thr Pro Pro His Glu Arg Pro Tyr Ala Cys Pro Val
20 25 30

Glu Ser Cys Asp Arg Arg Phe Ser Ser Pro Ala Asp Leu Thr Arg His
35 40 45

Ile Arg Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met
50 55 60

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

Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala
85 90 95

Gln Leu Ala His Leu Arg Ala His Thr Lys Ile His Leu Arg Gln Lys
100 105 110

Asp Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser

115 120 125

Gln Arg Ala Asn Leu Arg Ala His Ile Arg Ile His Thr Gly Gln Lys

130 135 140

Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Glu Asp Asn

145 150 155 160

Leu His Thr His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys

165 170 175

Asp Ile Cys Gly Arg Lys Phe Ala Arg Ser Asp Asn Leu Val Arg His

180 185 190

Thr Lys Ile His Leu Arg Gln Lys Asp Lys Leu Glu Met Ala Asp His

195 200 205

Leu Met Leu Ala Glu Gly Tyr Arg Leu Val Gln Arg Pro Pro Ser Ala

210 215 220

Ala Ala Ala His Gly Pro His Ala Leu Arg Thr Leu Pro Pro Tyr Ala

225 230 235 240

Gly Pro Gly Leu Asp Ser Gly Leu Arg Pro Arg Gly Ala Pro Leu Gly

245 250 255

Pro Pro Pro Pro Arg Gln Pro Gly Ala Leu Ala Tyr Gly Ala Phe Gly

260 265 270

Pro Pro Ser Ser Phe Gln Pro Phe Pro Ala Val Pro Pro Pro Ala Ala

275 280 285

Gly Ile Ala His Leu Gln Pro Val Ala Thr Pro Tyr Pro Gly Arg Ala

290 295 300

Ala Ala Pro Pro Asn Ala Pro Gly Gly Pro Pro Gly Pro Gln Pro Ala

305 310 315 320

Pro Ser Ala Ala Ala Pro Pro Pro Pro Ala His Ala Leu Gly Gly Met

325 330 335

Asp Ala Glu Leu Ile Asp Glu Glu Ala Leu Thr Ser Leu Glu Leu Glu

340 345 350

Leu Gly Leu His Arg Val Arg Glu Leu Pro Glu Leu Phe Leu Gly Gln

355 360 365

Ser Glu Phe Asp Cys Phe Ser Asp Leu Gly Ser Ala Pro Pro Ala Gly

370 375 380

Ser Val Ser Cys

385

<210> 64

<211> 580

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 64

Met Ala Ala Asp His Leu Met Leu Ala Glu Gly Tyr Arg Leu Val Gln

1 5 10 15

Arg Pro Pro Ser Ala Ala Ala Ala His Gly Pro His Ala Leu Arg Thr

20 25 30

Leu Pro Pro Tyr Ala Gly Pro Gly Leu Asp Ser Gly Leu Arg Pro Arg

35 40 45

Gly Ala Pro Leu Gly Pro Pro Pro Pro Arg Gln Pro Gly Ala Leu Ala

50 55 60

Tyr Gly Ala Phe Gly Pro Pro Ser Ser Phe Gln Pro Phe Pro Ala Val

65 70 75 80

Pro Pro Pro Ala Ala Gly Ile Ala His Leu Gln Pro Val Ala Thr Pro

85 90 95

Tyr Pro Gly Arg Ala Ala Ala Pro Pro Asn Ala Pro Gly Gly Pro Pro

100 105 110

Gly Pro Gln Pro Ala Pro Ser Ala Ala Ala Pro Pro Pro Pro Ala His

115 120 125

Ala Leu Gly Gly Met Asp Ala Glu Leu Ile Asp Glu Glu Ala Leu Thr

130 135 140

Ser Leu Glu Leu Glu Leu Gly Leu His Arg Val Arg Glu Leu Pro Glu

145 150 155 160

Leu Phe Leu Gly Gln Ser Glu Phe Asp Cys Phe Ser Asp Leu Gly Ser

165 170 175

Ala Pro Pro Ala Gly Ser Val Ser Cys Gly Gly Ser Gly Gly Gly Ser

180 185 190

Gly Gln Ser Gln Leu Ile Lys Pro Ser Arg Met Arg Lys Tyr Pro Asn

195 200 205

Arg Pro Ser Lys Thr Pro Pro His Glu Arg Pro Tyr Ala Cys Pro Val

210 215 220

Glu Ser Cys Asp Arg Arg Phe Ser Ser Pro Ala Asp Leu Thr Arg His

225 230 235 240

Ile Arg Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met

245 250 255

Arg Asn Phe Ser Asp Ser Gly Asn Leu Arg Val His Ile Arg Thr His

260 265 270

Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala

275 280 285

Gln Leu Ala His Leu Arg Ala His Thr Lys Ile His Leu Arg Gln Lys

290 295 300

Asp Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser

305 310 315 320

Gln Arg Ala Asn Leu Arg Ala His Ile Arg Ile His Thr Gly Gln Lys

325 330 335

Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Glu Asp Asn

340 345 350

Leu His Thr His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys

355 360 365

Asp Ile Cys Gly Arg Lys Phe Ala Arg Ser Asp Asn Leu Val Arg His

370 375 380

Thr Lys Ile His Leu Arg Gln Lys Asp Lys Leu Glu Met Ala Asp His

385 390 395 400

Leu Met Leu Ala Glu Gly Tyr Arg Leu Val Gln Arg Pro Pro Ser Ala

405 410 415

Ala Ala Ala His Gly Pro His Ala Leu Arg Thr Leu Pro Pro Tyr Ala

420 425 430

Gly Pro Gly Leu Asp Ser Gly Leu Arg Pro Arg Gly Ala Pro Leu Gly

435 440 445

Pro Pro Pro Pro Arg Gln Pro Gly Ala Leu Ala Tyr Gly Ala Phe Gly

450 455 460

Pro Pro Ser Ser Phe Gln Pro Phe Pro Ala Val Pro Pro Pro Ala Ala

465 470 475 480

Gly Ile Ala His Leu Gln Pro Val Ala Thr Pro Tyr Pro Gly Arg Ala

485 490 495

Ala Ala Pro Pro Asn Ala Pro Gly Gly Pro Pro Gly Pro Gln Pro Ala

500 505 510

Pro Ser Ala Ala Ala Pro Pro Pro Pro Ala His Ala Leu Gly Gly Met

515 520 525

Asp Ala Glu Leu Ile Asp Glu Glu Ala Leu Thr Ser Leu Glu Leu Glu

530 535 540

Leu Gly Leu His Arg Val Arg Glu Leu Pro Glu Leu Phe Leu Gly Gln

545 550 555 560

Ser Glu Phe Asp Cys Phe Ser Asp Leu Gly Ser Ala Pro Pro Ala Gly

565 570 575

Ser Val Ser Cys

580

<210> 65

<211> 388

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 65

Met Gln Ser Gln Leu Ile Lys Pro Ser Arg Met Arg Lys Tyr Pro Asn

1 5 10 15

Arg Pro Ser Lys Thr Pro Pro His Glu Arg Pro Tyr Ala Cys Pro Val

20 25 30

Glu Ser Cys Asp Arg Arg Phe Ser Arg Arg Asp Glu Leu Asn Val His

35 40 45

Ile Arg Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met

50 55 60

Arg Asn Phe Ser Ser Arg Arg Thr Cys Arg Ala His Ile Arg Thr His

65 70 75 80

Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala

85 90 95

Gln Ser Ser Asn Leu Val Arg His Thr Lys Ile His Leu Arg Gln Lys

100 105 110

Asp Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser

115 120 125

Gln Leu Ala His Leu Arg Ala His Ile Arg Ile His Thr Gly Gln Lys

130 135 140

Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Thr Ser Gly Asn

145 150 155 160

Leu Val Arg His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys

165 170 175

Asp Ile Cys Gly Arg Lys Phe Ala His Arg Thr Thr Leu Thr Asn His

180 185 190

Thr Lys Ile His Leu Arg Gln Lys Asp Lys Leu Glu Met Ala Asp His

195 200 205

Leu Met Leu Ala Glu Gly Tyr Arg Leu Val Gln Arg Pro Pro Ser Ala

210 215 220

Ala Ala Ala His Gly Pro His Ala Leu Arg Thr Leu Pro Pro Tyr Ala

225 230 235 240

Gly Pro Gly Leu Asp Ser Gly Leu Arg Pro Arg Gly Ala Pro Leu Gly

245 250 255

Pro Pro Pro Pro Arg Gln Pro Gly Ala Leu Ala Tyr Gly Ala Phe Gly

260 265 270

Pro Pro Ser Ser Phe Gln Pro Phe Pro Ala Val Pro Pro Pro Ala Ala

275 280 285

Gly Ile Ala His Leu Gln Pro Val Ala Thr Pro Tyr Pro Gly Arg Ala

290 295 300

Ala Ala Pro Pro Asn Ala Pro Gly Gly Pro Pro Gly Pro Gln Pro Ala

305 310 315 320

Pro Ser Ala Ala Ala Pro Pro Pro Pro Ala His Ala Leu Gly Gly Met

325 330 335

Asp Ala Glu Leu Ile Asp Glu Glu Ala Leu Thr Ser Leu Glu Leu Glu

340 345 350

Leu Gly Leu His Arg Val Arg Glu Leu Pro Glu Leu Phe Leu Gly Gln

355 360 365

Ser Glu Phe Asp Cys Phe Ser Asp Leu Gly Ser Ala Pro Pro Ala Gly

370 375 380

Ser Val Ser Cys

385

<210> 66

<211> 580

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 66

Met Ala Ala Asp His Leu Met Leu Ala Glu Gly Tyr Arg Leu Val Gln
1 5 10 15

Arg Pro Pro Ser Ala Ala Ala Ala His Gly Pro His Ala Leu Arg Thr
20 25 30

Leu Pro Pro Tyr Ala Gly Pro Gly Leu Asp Ser Gly Leu Arg Pro Arg
35 40 45

Gly Ala Pro Leu Gly Pro Pro Pro Pro Arg Gln Pro Gly Ala Leu Ala
50 55 60

Tyr Gly Ala Phe Gly Pro Pro Ser Ser Phe Gln Pro Phe Pro Ala Val
65 70 75 80

Pro Pro Pro Ala Ala Gly Ile Ala His Leu Gln Pro Val Ala Thr Pro

85 90 95

Tyr Pro Gly Arg Ala Ala Ala Pro Pro Asn Ala Pro Gly Gly Pro Pro

100 105 110

Gly Pro Gln Pro Ala Pro Ser Ala Ala Ala Pro Pro Pro Pro Ala His

115 120 125

Ala Leu Gly Gly Met Asp Ala Glu Leu Ile Asp Glu Glu Ala Leu Thr

130 135 140

Ser Leu Glu Leu Glu Leu Gly Leu His Arg Val Arg Glu Leu Pro Glu

145 150 155 160

Leu Phe Leu Gly Gln Ser Glu Phe Asp Cys Phe Ser Asp Leu Gly Ser

165 170 175

Ala Pro Pro Ala Gly Ser Val Ser Cys Gly Gly Ser Gly Gly Gly Ser

180 185 190

Gly Gln Ser Gln Leu Ile Lys Pro Ser Arg Met Arg Lys Tyr Pro Asn

195 200 205

Arg Pro Ser Lys Thr Pro Pro His Glu Arg Pro Tyr Ala Cys Pro Val

210 215 220

Glu Ser Cys Asp Arg Arg Phe Ser Arg Arg Asp Glu Leu Asn Val His

225 230 235 240

Ile Arg Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met

245 250 255

Arg Asn Phe Ser Ser Arg Arg Thr Cys Arg Ala His Ile Arg Thr His

260 265 270

Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala

275 280 285

Gln Ser Ser Asn Leu Val Arg His Thr Lys Ile His Leu Arg Gln Lys

290 295 300

Asp Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser

305 310 315 320

Gln Leu Ala His Leu Arg Ala His Ile Arg Ile His Thr Gly Gln Lys

325 330 335

Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Thr Ser Gly Asn

340 345 350

Leu Val Arg His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys

355 360 365

Asp Ile Cys Gly Arg Lys Phe Ala His Arg Thr Thr Leu Thr Asn His

370 375 380

Thr Lys Ile His Leu Arg Gln Lys Asp Lys Leu Glu Met Ala Asp His

385 390 395 400

Leu Met Leu Ala Glu Gly Tyr Arg Leu Val Gln Arg Pro Pro Ser Ala

405 410 415

Ala Ala Ala His Gly Pro His Ala Leu Arg Thr Leu Pro Pro Tyr Ala

420 425 430

Gly Pro Gly Leu Asp Ser Gly Leu Arg Pro Arg Gly Ala Pro Leu Gly

435 440 445

Pro Pro Pro Pro Arg Gln Pro Gly Ala Leu Ala Tyr Gly Ala Phe Gly

450 455 460

Pro Pro Ser Ser Phe Gln Pro Phe Pro Ala Val Pro Pro Pro Ala Ala

465 470 475 480

Gly Ile Ala His Leu Gln Pro Val Ala Thr Pro Tyr Pro Gly Arg Ala

485 490 495

Ala Ala Pro Pro Asn Ala Pro Gly Gly Pro Pro Gly Pro Gln Pro Ala

500 505 510

Pro Ser Ala Ala Ala Pro Pro Pro Pro Ala His Ala Leu Gly Gly Met

515 520 525

Asp Ala Glu Leu Ile Asp Glu Glu Ala Leu Thr Ser Leu Glu Leu Glu

530 535 540

Leu Gly Leu His Arg Val Arg Glu Leu Pro Glu Leu Phe Leu Gly Gln

545 550 555 560

Ser Glu Phe Asp Cys Phe Ser Asp Leu Gly Ser Ala Pro Pro Ala Gly

565 570 575

Ser Val Ser Cys

580

<210> 67

<211> 580

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 67

Met Ala Ala Asp His Leu Met Leu Ala Glu Gly Tyr Arg Leu Val Gln
1 5 10 15

Arg Pro Pro Ser Ala Ala Ala Ala His Gly Pro His Ala Leu Arg Thr
20 25 30

Leu Pro Pro Tyr Ala Gly Pro Gly Leu Asp Ser Gly Leu Arg Pro Arg
35 40 45

Gly Ala Pro Leu Gly Pro Pro Pro Pro Arg Gln Pro Gly Ala Leu Ala
50 55 60

Tyr Gly Ala Phe Gly Pro Pro Ser Ser Phe Gln Pro Phe Pro Ala Val
65 70 75 80

Pro Pro Pro Ala Ala Gly Ile Ala His Leu Gln Pro Val Ala Thr Pro

85 90 95

Tyr Pro Gly Arg Ala Ala Ala Pro Pro Asn Ala Pro Gly Gly Pro Pro

100 105 110

Gly Pro Gln Pro Ala Pro Ser Ala Ala Ala Pro Pro Pro Pro Ala His

115 120 125

Ala Leu Gly Gly Met Asp Ala Glu Leu Ile Asp Glu Glu Ala Leu Thr

130 135 140

Ser Leu Glu Leu Glu Leu Gly Leu His Arg Val Arg Glu Leu Pro Glu

145 150 155 160

Leu Phe Leu Gly Gln Ser Glu Phe Asp Cys Phe Ser Asp Leu Gly Ser

165 170 175

Ala Pro Pro Ala Gly Ser Val Ser Cys Gly Gly Ser Gly Gly Gly Ser

180 185 190

Gly Gln Ser Gln Leu Ile Lys Pro Ser Arg Met Arg Lys Tyr Pro Asn

195 200 205

Arg Pro Ser Lys Thr Pro Pro His Glu Arg Pro Tyr Ala Cys Pro Val

210 215 220

Glu Ser Cys Asp Arg Arg Phe Ser Arg Ser Asp Asn Leu Val Arg His

225 230 235 240

Ile Arg Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met

245 250 255

Arg Asn Phe Ser His Arg Thr Thr Leu Thr Asn His Ile Arg Thr His

260 265 270

Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala

275 280 285

Arg Glu Asp Asn Leu His Thr His Thr Lys Ile His Leu Arg Gln Lys

290 295 300

Asp Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser

305 310 315 320

Thr Ser His Ser Leu Thr Glu His Ile Arg Ile His Thr Gly Gln Lys

325 330 335

Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Gln Ser Ser Ser

340 345 350

Leu Val Arg His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys

355 360 365

Asp Ile Cys Gly Arg Lys Phe Ala Arg Glu Asp Asn Leu His Thr His

370 375 380

Thr Lys Ile His Leu Arg Gln Lys Asp Lys Leu Glu Met Ala Asp His

385 390 395 400

Leu Met Leu Ala Glu Gly Tyr Arg Leu Val Gln Arg Pro Pro Ser Ala

405 410 415

Ala Ala Ala His Gly Pro His Ala Leu Arg Thr Leu Pro Pro Tyr Ala

420 425 430

Gly Pro Gly Leu Asp Ser Gly Leu Arg Pro Arg Gly Ala Pro Leu Gly

435 440 445

Pro Pro Pro Pro Arg Gln Pro Gly Ala Leu Ala Tyr Gly Ala Phe Gly

450 455 460

Pro Pro Ser Ser Phe Gln Pro Phe Pro Ala Val Pro Pro Pro Ala Ala

465 470 475 480

Gly Ile Ala His Leu Gln Pro Val Ala Thr Pro Tyr Pro Gly Arg Ala

485 490 495

Ala Ala Pro Pro Asn Ala Pro Gly Gly Pro Pro Gly Pro Gln Pro Ala

500 505 510

Pro Ser Ala Ala Ala Pro Pro Pro Pro Ala His Ala Leu Gly Gly Met

515 520 525

Asp Ala Glu Leu Ile Asp Glu Glu Ala Leu Thr Ser Leu Glu Leu Glu

530 535 540

Leu Gly Leu His Arg Val Arg Glu Leu Pro Glu Leu Phe Leu Gly Gln

545 550 555 560

Ser Glu Phe Asp Cys Phe Ser Asp Leu Gly Ser Ala Pro Pro Ala Gly

565 570 575

Ser Val Ser Cys

580

<210> 68

<211> 394

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 68

Met Ala Ala Asp His Leu Met Leu Ala Glu Gly Tyr Arg Leu Val Gln

1 5 10 15

Arg Pro Pro Ser Ala Ala Ala Ala His Gly Pro His Ala Leu Arg Thr

20 25 30

Leu Pro Pro Tyr Ala Gly Pro Gly Leu Asp Ser Gly Leu Arg Pro Arg

35 40 45

Gly Ala Pro Leu Gly Pro Pro Pro Pro Arg Gln Pro Gly Ala Leu Ala

50 55 60

Tyr Gly Ala Phe Gly Pro Pro Ser Ser Phe Gln Pro Phe Pro Ala Val

65 70 75 80

Pro Pro Pro Ala Ala Gly Ile Ala His Leu Gln Pro Val Ala Thr Pro

85 90 95

Tyr Pro Gly Arg Ala Ala Ala Pro Pro Asn Ala Pro Gly Gly Pro Pro

100 105 110

Gly Pro Gln Pro Ala Pro Ser Ala Ala Ala Pro Pro Pro Pro Ala His

115 120 125

Ala Leu Gly Gly Met Asp Ala Glu Leu Ile Asp Glu Glu Ala Leu Thr

130 135 140

Ser Leu Glu Leu Glu Leu Gly Leu His Arg Val Arg Glu Leu Pro Glu

145 150 155 160

Leu Phe Leu Gly Gln Ser Glu Phe Asp Cys Phe Ser Asp Leu Gly Ser

165 170 175

Ala Pro Pro Ala Gly Ser Val Ser Cys Gly Gly Ser Gly Gly Gly Ser

180 185 190

Gly Gln Ser Gln Leu Ile Lys Pro Ser Arg Met Arg Lys Tyr Pro Asn

195 200 205

Arg Pro Ser Lys Thr Pro Pro His Glu Arg Pro Tyr Ala Cys Pro Val

210 215 220

Glu Ser Cys Asp Arg Arg Phe Ser Arg Ser Asp Asn Leu Val Arg His

225 230 235 240

Ile Arg Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met

245 250 255

Arg Asn Phe Ser His Arg Thr Thr Leu Thr Asn His Ile Arg Thr His

260 265 270

Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala

275 280 285

Arg Glu Asp Asn Leu His Thr His Thr Lys Ile His Leu Arg Gln Lys

290 295 300

Asp Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser

305 310 315 320

Thr Ser His Ser Leu Thr Glu His Ile Arg Ile His Thr Gly Gln Lys
325 330 335

Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Gln Ser Ser Ser
340 345 350

Leu Val Arg His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys
355 360 365

Asp Ile Cys Gly Arg Lys Phe Ala Arg Glu Asp Asn Leu His Thr His
370 375 380

Thr Lys Ile His Leu Arg Gln Lys Asp Lys
385 390

<210> 69

<211> 394

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 69

Met Ala Ala Asp His Leu Met Leu Ala Glu Gly Tyr Arg Leu Val Gln
1 5 10 15

Arg Pro Pro Ser Ala Ala Ala Ala His Gly Pro His Ala Leu Arg Thr
20 25 30

Leu Pro Pro Tyr Ala Gly Pro Gly Leu Asp Ser Gly Leu Arg Pro Arg
35 40 45

Gly Ala Pro Leu Gly Pro Pro Pro Pro Arg Gln Pro Gly Ala Leu Ala
50 55 60

Tyr Gly Ala Phe Gly Pro Pro Ser Ser Phe Gln Pro Phe Pro Ala Val
65 70 75 80

Pro Pro Pro Ala Ala Gly Ile Ala His Leu Gln Pro Val Ala Thr Pro
85 90 95

Tyr Pro Gly Arg Ala Ala Ala Pro Pro Asn Ala Pro Gly Gly Pro Pro
100 105 110

Gly Pro Gln Pro Ala Pro Ser Ala Ala Ala Pro Pro Pro Pro Ala His

115 120 125

Ala Leu Gly Gly Met Asp Ala Glu Leu Ile Asp Glu Glu Ala Leu Thr

130 135 140

Ser Leu Glu Leu Glu Leu Gly Leu His Arg Val Arg Glu Leu Pro Glu

145 150 155 160

Leu Phe Leu Gly Gln Ser Glu Phe Asp Cys Phe Ser Asp Leu Gly Ser

165 170 175

Ala Pro Pro Ala Gly Ser Val Ser Cys Gly Gly Ser Gly Gly Gly Ser

180 185 190

Gly Gln Ser Gln Leu Ile Lys Pro Ser Arg Met Arg Lys Tyr Pro Asn

195 200 205

Arg Pro Ser Lys Thr Pro Pro His Glu Arg Pro Tyr Ala Cys Pro Val

210 215 220

Glu Ser Cys Asp Arg Arg Phe Ser Arg Ser Asp Asn Leu Val Arg His

225 230 235 240

Ile Arg Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met

245 250 255

Arg Asn Phe Ser Arg Glu Asp Asn Leu His Thr His Ile Arg Thr His

260 265 270

Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala

275 280 285

Arg Ser Asp Glu Leu Val Arg His Thr Lys Ile His Leu Arg Gln Lys

290 295 300

Asp Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser

305 310 315 320

Gln Ser Gly Asn Leu Thr Glu His Ile Arg Ile His Thr Gly Gln Lys

325 330 335

Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Thr Ser Gly His

340 345 350

Leu Val Arg His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys

355 360 365

Asp Ile Cys Gly Arg Lys Phe Ala Gln Asn Ser Thr Leu Thr Glu His

370 375 380

Thr Lys Ile His Leu Arg Gln Lys Asp Lys

385 390

<210> 70

<211> 479

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 70

Met Arg Pro His Ala Cys Pro Ala Glu Gly Cys Asp Arg Arg Phe Ser

1 5 10 15

Arg Ser Asp Asn Leu Val Arg His Leu Arg Ile His Thr Gly His Lys

20 25 30

Pro Phe Gln Cys Arg Ile Cys Met Arg Ser Phe Ser Arg Glu Asp Asn

35 40 45

Leu His Thr His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys

50 55 60

Glu Phe Cys Gly Arg Lys Phe Ala Arg Ser Asp Glu Leu Val Arg His

65 70 75 80

Ala Lys Ile His Leu Lys Gln Lys Glu His Ala Cys Pro Ala Glu Gly

85 90 95

Cys Asp Arg Arg Phe Ser Gln Ser Gly Asn Leu Thr Glu His Leu Arg

100 105 110

Ile His Thr Gly His Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Ser

115 120 125

Phe Ser Thr Ser Gly His Leu Val Arg His Ile Arg Thr His Thr Gly

130 135 140

Glu Lys Pro Phe Ala Cys Glu Phe Cys Gly Arg Lys Phe Ala Gln Asn

145 150 155 160

Ser Thr Leu Thr Glu His Ala Lys Ile His Leu Lys Gln Lys Glu Lys

165 170 175

Lys Ala Glu Lys Gly Gly Ala Pro Ser Ala Ser Ser Ala Pro Pro Val

180 185 190

Ser Leu Ala Pro Val Val Thr Thr Cys Ala Leu Glu Met Ser Gly Leu

195 200 205

Glu Met Ala Asp His Met Met Ala Met Asn His Gly Arg Phe Pro Asp

210 215 220

Gly Thr Asn Gly Leu His His His Pro Ala His Arg Met Gly Met Gly

225 230 235 240

Gln Phe Pro Ser Pro His His His Gln Gln Gln Gln Pro Gln His Ala

245 250 255

Phe Asn Ala Leu Met Gly Glu His Ile His Tyr Gly Ala Gly Asn Met

260 265 270

Asn Ala Thr Ser Gly Ile Arg His Ala Met Gly Pro Gly Thr Val Asn

275 280 285

Gly Gly His Pro Pro Ser Ala Leu Ala Pro Ala Ala Arg Phe Asn Asn

290 295 300

Ser Gln Phe Met Gly Pro Pro Val Ala Ser Gln Gly Gly Ser Leu Pro

305 310 315 320

Ala Ser Met Gln Leu Gln Lys Leu Asn Asn Gln Tyr Phe Asn His His

325 330 335

Pro Tyr Pro His Asn His Tyr Met Pro Asp Leu His Pro Ala Ala Gly

340 345 350

His Gln Met Asn Gly Thr Asn Gln His Phe Arg Asp Cys Asn Pro Lys

355 360 365

His Ser Gly Gly Ser Ser Thr Pro Gly Gly Ser Gly Gly Ser Ser Thr

370 375 380

Pro Gly Gly Ser Gly Ser Ser Ser Gly Gly Gly Ala Gly Ser Ser Asn

385 390 395 400

Ser Gly Gly Gly Ser Gly Ser Gly Asn Met Pro Ala Ser Val Ala His

405 410 415

Val Pro Ala Ala Met Leu Pro Pro Asn Val Ile Asp Thr Asp Phe Ile

420 425 430

Asp Glu Glu Val Leu Met Ser Leu Val Ile Glu Met Gly Leu Asp Arg

435 440 445

Ile Lys Glu Leu Pro Glu Leu Trp Leu Gly Gln Asn Glu Phe Asp Phe

450 455 460

Met Thr Asp Phe Val Cys Lys Gln Gln Pro Ser Arg Val Ser Cys

465 470 475

<210> 71

<211> 476

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 71

Met Ser Gly Leu Glu Met Ala Asp His Met Met Ala Met Asn His Gly

1 5 10 15

Arg Phe Pro Asp Gly Thr Asn Gly Leu His His His Pro Ala His Arg

20 25 30

Met Gly Met Gly Gln Phe Pro Ser Pro His His His Gln Gln Gln Gln

35 40 45

Pro Gln His Ala Phe Asn Ala Leu Met Gly Glu His Ile His Tyr Gly

50 55 60

Ala Gly Asn Met Asn Ala Thr Ser Gly Val Arg His Ala Met Gly Pro

65 70 75 80

Gly Thr Val Asn Gly Gly His Pro Pro Ser Ala Leu Ala Pro Ala Ala

85 90 95

Arg Phe Asn Asn Ser Gln Phe Met Gly Pro Pro Val Ala Ser Gln Gly

100 105 110

Gly Ser Leu Pro Ala Ser Met Gln Leu Gln Lys Leu Asn Asn Gln Tyr

115 120 125

Phe Asn His His Pro Tyr Pro His Asn His Tyr Met Pro Asp Leu His

130 135 140

Pro Ala Ala Gly His Gln Met Asn Gly Thr Asn Gln His Phe Arg Asp

145 150 155 160

Cys Asn Pro Lys His Ser Gly Gly Ser Ser Thr Pro Gly Gly Ser Gly

165 170 175

Gly Ser Ser Thr Pro Gly Gly Ser Gly Ser Ser Ser Gly Gly Gly Ala

180 185 190

Gly Ser Ser Asn Ser Gly Gly Gly Ser Gly Ser Gly Asn Met Pro Ala

195 200 205

Ser Val Ala His Val Pro Ala Ala Met Leu Pro Pro Asn Val Ile Asp

210 215 220

Thr Asp Phe Ile Asp Glu Glu Val Leu Met Ser Leu Val Ile Glu Met

225 230 235 240

Gly Leu Asp Arg Ile Lys Glu Leu Pro Glu Leu Trp Leu Gly Gln Asn

245 250 255

Glu Phe Asp Phe Met Thr Asp Phe Val Cys Lys Gln Gln Pro Ser Arg

260 265 270

Val Ser Cys Arg Pro His Ala Cys Pro Ala Glu Gly Cys Asp Arg Arg

275 280 285

Phe Ser Arg Ser Asp Asn Leu Val Arg His Leu Arg Ile His Thr Gly

290 295 300

His Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Ser Phe Ser Arg Glu

305 310 315 320

Asp Asn Leu His Thr His Ile Arg Thr His Thr Gly Glu Lys Pro Phe

325 330 335

Ala Cys Glu Phe Cys Gly Arg Lys Phe Ala Arg Ser Asp Glu Leu Val

340 345 350

Arg His Ala Lys Ile His Leu Lys Gln Lys Glu His Ala Cys Pro Ala

355 360 365

Glu Gly Cys Asp Arg Arg Phe Ser Gln Ser Gly Asn Leu Thr Glu His

370 375 380

Leu Arg Ile His Thr Gly His Lys Pro Phe Gln Cys Arg Ile Cys Met

385 390 395 400

Arg Ser Phe Ser Thr Ser Gly His Leu Val Arg His Ile Arg Thr His

405 410 415

Thr Gly Glu Lys Pro Phe Ala Cys Glu Phe Cys Gly Arg Lys Phe Ala

420 425 430

Gln Asn Ser Thr Leu Thr Glu His Ala Lys Ile His Leu Lys Gln Lys

435 440 445

Glu Lys Lys Ala Glu Lys Gly Gly Ala Pro Ser Ala Ser Ser Ala Pro

450 455 460

Pro Val Ser Leu Ala Pro Val Val Thr Thr Cys Ala

465 470 475

<210> 72

<211> 479

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<220>

<221> MOD_RES

<222> (278)..(278)

<223> Ile or Val

<400> 72

Met Arg Pro His Ala Cys Pro Ala Glu Gly Cys Asp Arg Arg Phe Ser
1 5 10 15

Ser Pro Ala Asp Leu Thr Arg His Leu Arg Ile His Thr Gly His Lys
20 25 30

Pro Phe Gln Cys Arg Ile Cys Met Arg Ser Phe Ser Asp Ser Gly Asn
35 40 45

Leu Arg Val His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys
50 55 60

Glu Phe Cys Gly Arg Lys Phe Ala Gln Leu Ala His Leu Arg Ala His
65 70 75 80

Ala Lys Ile His Leu Lys Gln Lys Glu His Ala Cys Pro Ala Glu Gly
85 90 95

Cys Asp Arg Arg Phe Ser Gln Arg Ala Asn Leu Arg Ala His Leu Arg

100 105 110

Ile His Thr Gly His Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Ser

115 120 125

Phe Ser Arg Glu Asp Asn Leu His Thr His Ile Arg Thr His Thr Gly

130 135 140

Glu Lys Pro Phe Ala Cys Glu Phe Cys Gly Arg Lys Phe Ala Arg Ser

145 150 155 160

Asp Asn Leu Val Arg His Ala Lys Ile His Leu Lys Gln Lys Glu Lys

165 170 175

Lys Ala Glu Lys Gly Gly Ala Pro Ser Ala Ser Ser Ala Pro Pro Val

180 185 190

Ser Leu Ala Pro Val Val Thr Thr Cys Ala Leu Glu Met Ser Gly Leu

195 200 205

Glu Met Ala Asp His Met Met Ala Met Asn His Gly Arg Phe Pro Asp

210 215 220

Gly Thr Asn Gly Leu His His His Pro Ala His Arg Met Gly Met Gly

225 230 235 240

Gln Phe Pro Ser Pro His His His Gln Gln Gln Gln Pro Gln His Ala

245 250 255

Phe Asn Ala Leu Met Gly Glu His Ile His Tyr Gly Ala Gly Asn Met

260 265 270

Asn Ala Thr Ser Gly Xaa Arg His Ala Met Gly Pro Gly Thr Val Asn

275 280 285

Gly Gly His Pro Pro Ser Ala Leu Ala Pro Ala Ala Arg Phe Asn Asn

290 295 300

Ser Gln Phe Met Gly Pro Pro Val Ala Ser Gln Gly Gly Ser Leu Pro

305 310 315 320

Ala Ser Met Gln Leu Gln Lys Leu Asn Asn Gln Tyr Phe Asn His His

325 330 335

Pro Tyr Pro His Asn His Tyr Met Pro Asp Leu His Pro Ala Ala Gly

340 345 350

His Gln Met Asn Gly Thr Asn Gln His Phe Arg Asp Cys Asn Pro Lys

355 360 365

His Ser Gly Gly Ser Ser Thr Pro Gly Gly Ser Gly Gly Ser Ser Thr

370 375 380

Pro Gly Gly Ser Gly Ser Ser Ser Gly Gly Gly Ala Gly Ser Ser Asn

385 390 395 400

Ser Gly Gly Gly Ser Gly Ser Gly Asn Met Pro Ala Ser Val Ala His

405 410 415

Val Pro Ala Ala Met Leu Pro Pro Asn Val Ile Asp Thr Asp Phe Ile

420 425 430

Asp Glu Glu Val Leu Met Ser Leu Val Ile Glu Met Gly Leu Asp Arg

435 440 445

Ile Lys Glu Leu Pro Glu Leu Trp Leu Gly Gln Asn Glu Phe Asp Phe

450 455 460

Met Thr Asp Phe Val Cys Lys Gln Gln Pro Ser Arg Val Ser Cys

465 470 475

<210> 73

<211> 476

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 73

Met Ser Gly Leu Glu Met Ala Asp His Met Met Ala Met Asn His Gly
1 5 10 15

Arg Phe Pro Asp Gly Thr Asn Gly Leu His His His Pro Ala His Arg
20 25 30

Met Gly Met Gly Gln Phe Pro Ser Pro His His His Gln Gln Gln Gln
35 40 45

Pro Gln His Ala Phe Asn Ala Leu Met Gly Glu His Ile His Tyr Gly
50 55 60

Ala Gly Asn Met Asn Ala Thr Ser Gly Val Arg His Ala Met Gly Pro
65 70 75 80

Gly Thr Val Asn Gly Gly His Pro Pro Ser Ala Leu Ala Pro Ala Ala

85 90 95

Arg Phe Asn Asn Ser Gln Phe Met Gly Pro Pro Val Ala Ser Gln Gly

100 105 110

Gly Ser Leu Pro Ala Ser Met Gln Leu Gln Lys Leu Asn Asn Gln Tyr

115 120 125

Phe Asn His His Pro Tyr Pro His Asn His Tyr Met Pro Asp Leu His

130 135 140

Pro Ala Ala Gly His Gln Met Asn Gly Thr Asn Gln His Phe Arg Asp

145 150 155 160

Cys Asn Pro Lys His Ser Gly Gly Ser Ser Thr Pro Gly Gly Ser Gly

165 170 175

Gly Ser Ser Thr Pro Gly Gly Ser Gly Ser Ser Ser Gly Gly Gly Ala

180 185 190

Gly Ser Ser Asn Ser Gly Gly Gly Ser Gly Ser Gly Asn Met Pro Ala

195 200 205

Ser Val Ala His Val Pro Ala Ala Met Leu Pro Pro Asn Val Ile Asp

210 215 220

Thr Asp Phe Ile Asp Glu Glu Val Leu Met Ser Leu Val Ile Glu Met

225 230 235 240

Gly Leu Asp Arg Ile Lys Glu Leu Pro Glu Leu Trp Leu Gly Gln Asn

245 250 255

Glu Phe Asp Phe Met Thr Asp Phe Val Cys Lys Gln Gln Pro Ser Arg

260 265 270

Val Ser Cys Arg Pro His Ala Cys Pro Ala Glu Gly Cys Asp Arg Arg

275 280 285

Phe Ser Ser Pro Ala Asp Leu Thr Arg His Leu Arg Ile His Thr Gly

290 295 300

His Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Ser Phe Ser Asp Ser

305 310 315 320

Gly Asn Leu Arg Val His Ile Arg Thr His Thr Gly Glu Lys Pro Phe

325 330 335

Ala Cys Glu Phe Cys Gly Arg Lys Phe Ala Gln Leu Ala His Leu Arg

340 345 350

Ala His Ala Lys Ile His Leu Lys Gln Lys Glu His Ala Cys Pro Ala

355 360 365

Glu Gly Cys Asp Arg Arg Phe Ser Gln Arg Ala Asn Leu Arg Ala His

370 375 380

Leu Arg Ile His Thr Gly His Lys Pro Phe Gln Cys Arg Ile Cys Met

385 390 395 400

Arg Ser Phe Ser Arg Glu Asp Asn Leu His Thr His Ile Arg Thr His

405 410 415

Thr Gly Glu Lys Pro Phe Ala Cys Glu Phe Cys Gly Arg Lys Phe Ala

420 425 430

Arg Ser Asp Asn Leu Val Arg His Ala Lys Ile His Leu Lys Gln Lys

435 440 445

Glu Lys Lys Ala Glu Lys Gly Gly Ala Pro Ser Ala Ser Ser Ala Pro

450 455 460

Pro Val Ser Leu Ala Pro Val Val Thr Thr Cys Ala

465 470 475

<210> 74

<211> 362

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 74

Met Arg Pro His Ala Cys Pro Ala Glu Gly Cys Asp Arg Arg Phe Ser

1 5 10 15

Arg Ser Asp Asn Leu Val Arg His Leu Arg Ile His Thr Gly His Lys

20 25 30

Pro Phe Gln Cys Arg Ile Cys Met Arg Ser Phe Ser Arg Glu Asp Asn

35 40 45

Leu His Thr His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys

50 55 60

Glu Phe Cys Gly Arg Lys Phe Ala Arg Ser Asp Glu Leu Val Arg His
65 70 75 80

Ala Lys Ile His Leu Lys Gln Lys Glu His Ala Cys Pro Ala Glu Gly
85 90 95

Cys Asp Arg Arg Phe Ser Gln Ser Gly Asn Leu Thr Glu His Leu Arg
100 105 110

Ile His Thr Gly His Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Ser
115 120 125

Phe Ser Thr Ser Gly His Leu Val Arg His Ile Arg Thr His Thr Gly
130 135 140

Glu Lys Pro Phe Ala Cys Glu Phe Cys Gly Arg Lys Phe Ala Gln Asn
145 150 155 160

Ser Thr Leu Thr Glu His Ala Lys Ile His Leu Lys Gln Lys Glu Lys
165 170 175

Leu Glu Met Ala Asp His Leu Met Leu Ala Glu Gly Tyr Arg Leu Val

180 185 190

Gln Arg Pro Pro Ser Ala Ala Ala Ala His Gly Pro His Ala Leu Arg

195 200 205

Thr Leu Pro Pro Tyr Ala Gly Pro Gly Leu Asp Ser Gly Leu Arg Pro

210 215 220

Arg Gly Ala Pro Leu Gly Pro Pro Pro Pro Arg Gln Pro Gly Ala Leu

225 230 235 240

Ala Tyr Gly Ala Phe Gly Pro Pro Ser Ser Phe Gln Pro Phe Pro Ala

245 250 255

Val Pro Pro Pro Ala Ala Gly Ile Ala His Leu Gln Pro Val Ala Thr

260 265 270

Pro Tyr Pro Gly Arg Ala Ala Ala Pro Pro Asn Ala Pro Gly Gly Pro

275 280 285

Pro Gly Pro Gln Pro Ala Pro Ser Ala Ala Ala Pro Pro Pro Pro Ala

290 295 300

His Ala Leu Gly Gly Met Asp Ala Glu Leu Ile Asp Glu Glu Ala Leu

305 310 315 320

Thr Ser Leu Glu Leu Glu Leu Gly Leu His Arg Val Arg Glu Leu Pro

325 330 335

Glu Leu Phe Leu Gly Gln Ser Glu Phe Asp Cys Phe Ser Asp Leu Gly

340 345 350

Ser Ala Pro Pro Ala Gly Ser Val Ser Cys

355 360

<210> 75

<211> 554

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 75

Met Ala Ala Asp His Leu Met Leu Ala Glu Gly Tyr Arg Leu Val Gln

1 5 10 15

Arg Pro Pro Ser Ala Ala Ala Ala His Gly Pro His Ala Leu Arg Thr

20 25 30

Leu Pro Pro Tyr Ala Gly Pro Gly Leu Asp Ser Gly Leu Arg Pro Arg

35 40 45

Gly Ala Pro Leu Gly Pro Pro Pro Pro Arg Gln Pro Gly Ala Leu Ala

50 55 60

Tyr Gly Ala Phe Gly Pro Pro Ser Ser Phe Gln Pro Phe Pro Ala Val

65 70 75 80

Pro Pro Pro Ala Ala Gly Ile Ala His Leu Gln Pro Val Ala Thr Pro

85 90 95

Tyr Pro Gly Arg Ala Ala Ala Pro Pro Asn Ala Pro Gly Gly Pro Pro

100 105 110

Gly Pro Gln Pro Ala Pro Ser Ala Ala Ala Pro Pro Pro Pro Ala His

115 120 125

Ala Leu Gly Gly Met Asp Ala Glu Leu Ile Asp Glu Glu Ala Leu Thr

130 135 140

Ser Leu Glu Leu Glu Leu Gly Leu His Arg Val Arg Glu Leu Pro Glu

145 150 155 160

Leu Phe Leu Gly Gln Ser Glu Phe Asp Cys Phe Ser Asp Leu Gly Ser

165 170 175

Ala Pro Pro Ala Gly Ser Val Ser Cys Gly Gly Ser Gly Gly Gly Ser

180 185 190

Gly Arg Pro His Ala Cys Pro Ala Glu Gly Cys Asp Arg Arg Phe Ser

195 200 205

Arg Ser Asp Asn Leu Val Arg His Leu Arg Ile His Thr Gly His Lys

210 215 220

Pro Phe Gln Cys Arg Ile Cys Met Arg Ser Phe Ser Arg Glu Asp Asn

225 230 235 240

Leu His Thr His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys

245 250 255

Glu Phe Cys Gly Arg Lys Phe Ala Arg Ser Asp Glu Leu Val Arg His

260 265 270

Ala Lys Ile His Leu Lys Gln Lys Glu His Ala Cys Pro Ala Glu Gly

275 280 285

Cys Asp Arg Arg Phe Ser Gln Ser Gly Asn Leu Thr Glu His Leu Arg

290 295 300

Ile His Thr Gly His Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Ser

305 310 315 320

Phe Ser Thr Ser Gly His Leu Val Arg His Ile Arg Thr His Thr Gly

325 330 335

Glu Lys Pro Phe Ala Cys Glu Phe Cys Gly Arg Lys Phe Ala Gln Asn

340 345 350

Ser Thr Leu Thr Glu His Ala Lys Ile His Leu Lys Gln Lys Glu Lys

355 360 365

Leu Glu Met Ala Asp His Leu Met Leu Ala Glu Gly Tyr Arg Leu Val

370 375 380

Gln Arg Pro Pro Ser Ala Ala Ala Ala His Gly Pro His Ala Leu Arg

385 390 395 400

Thr Leu Pro Pro Tyr Ala Gly Pro Gly Leu Asp Ser Gly Leu Arg Pro
405 410 415

Arg Gly Ala Pro Leu Gly Pro Pro Pro Pro Arg Gln Pro Gly Ala Leu
420 425 430

Ala Tyr Gly Ala Phe Gly Pro Pro Ser Ser Phe Gln Pro Phe Pro Ala
435 440 445

Val Pro Pro Pro Ala Ala Gly Ile Ala His Leu Gln Pro Val Ala Thr
450 455 460

Pro Tyr Pro Gly Arg Ala Ala Ala Pro Pro Asn Ala Pro Gly Gly Pro
465 470 475 480

Pro Gly Pro Gln Pro Ala Pro Ser Ala Ala Ala Pro Pro Pro Pro Ala
485 490 495

His Ala Leu Gly Gly Met Asp Ala Glu Leu Ile Asp Glu Glu Ala Leu
500 505 510

Thr Ser Leu Glu Leu Glu Leu Gly Leu His Arg Val Arg Glu Leu Pro

515 520 525

Glu Leu Phe Leu Gly Gln Ser Glu Phe Asp Cys Phe Ser Asp Leu Gly

530 535 540

Ser Ala Pro Pro Ala Gly Ser Val Ser Cys

545 550

<210> 76

<211> 362

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 76

Met Arg Pro His Ala Cys Pro Ala Glu Gly Cys Asp Arg Arg Phe Ser

1 5 10 15

Ser Pro Ala Asp Leu Thr Arg His Leu Arg Ile His Thr Gly His Lys

20 25 30

Pro Phe Gln Cys Arg Ile Cys Met Arg Ser Phe Ser Asp Ser Gly Asn

35 40 45

Leu Arg Val His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys
50 55 60

Glu Phe Cys Gly Arg Lys Phe Ala Gln Leu Ala His Leu Arg Ala His
65 70 75 80

Ala Lys Ile His Leu Lys Gln Lys Glu His Ala Cys Pro Ala Glu Gly
85 90 95

Cys Asp Arg Arg Phe Ser Gln Arg Ala Asn Leu Arg Ala His Leu Arg
100 105 110

Ile His Thr Gly His Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Ser
115 120 125

Phe Ser Arg Glu Asp Asn Leu His Thr His Ile Arg Thr His Thr Gly
130 135 140

Glu Lys Pro Phe Ala Cys Glu Phe Cys Gly Arg Lys Phe Ala Arg Ser
145 150 155 160

Asp Asn Leu Val Arg His Ala Lys Ile His Leu Lys Gln Lys Glu Lys

165 170 175

Leu Glu Met Ala Asp His Leu Met Leu Ala Glu Gly Tyr Arg Leu Val

180 185 190

Gln Arg Pro Pro Ser Ala Ala Ala Ala His Gly Pro His Ala Leu Arg

195 200 205

Thr Leu Pro Pro Tyr Ala Gly Pro Gly Leu Asp Ser Gly Leu Arg Pro

210 215 220

Arg Gly Ala Pro Leu Gly Pro Pro Pro Pro Arg Gln Pro Gly Ala Leu

225 230 235 240

Ala Tyr Gly Ala Phe Gly Pro Pro Ser Ser Phe Gln Pro Phe Pro Ala

245 250 255

Val Pro Pro Pro Ala Ala Gly Ile Ala His Leu Gln Pro Val Ala Thr

260 265 270

Pro Tyr Pro Gly Arg Ala Ala Ala Pro Pro Asn Ala Pro Gly Gly Pro

275 280 285

Pro Gly Pro Gln Pro Ala Pro Ser Ala Ala Ala Pro Pro Pro Pro Ala

290 295 300

His Ala Leu Gly Gly Met Asp Ala Glu Leu Ile Asp Glu Glu Ala Leu

305 310 315 320

Thr Ser Leu Glu Leu Glu Leu Gly Leu His Arg Val Arg Glu Leu Pro

325 330 335

Glu Leu Phe Leu Gly Gln Ser Glu Phe Asp Cys Phe Ser Asp Leu Gly

340 345 350

Ser Ala Pro Pro Ala Gly Ser Val Ser Cys

355 360

<210> 77

<211> 554

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 77

Met Ala Ala Asp His Leu Met Leu Ala Glu Gly Tyr Arg Leu Val Gln

1 5 10 15

Arg Pro Pro Ser Ala Ala Ala Ala His Gly Pro His Ala Leu Arg Thr

20 25 30

Leu Pro Pro Tyr Ala Gly Pro Gly Leu Asp Ser Gly Leu Arg Pro Arg

35 40 45

Gly Ala Pro Leu Gly Pro Pro Pro Pro Arg Gln Pro Gly Ala Leu Ala

50 55 60

Tyr Gly Ala Phe Gly Pro Pro Ser Ser Phe Gln Pro Phe Pro Ala Val

65 70 75 80

Pro Pro Pro Ala Ala Gly Ile Ala His Leu Gln Pro Val Ala Thr Pro

85 90 95

Tyr Pro Gly Arg Ala Ala Ala Pro Pro Asn Ala Pro Gly Gly Pro Pro

100 105 110

Gly Pro Gln Pro Ala Pro Ser Ala Ala Ala Pro Pro Pro Pro Ala His

115 120 125

Ala Leu Gly Gly Met Asp Ala Glu Leu Ile Asp Glu Glu Ala Leu Thr

130 135 140

Ser Leu Glu Leu Glu Leu Gly Leu His Arg Val Arg Glu Leu Pro Glu

145 150 155 160

Leu Phe Leu Gly Gln Ser Glu Phe Asp Cys Phe Ser Asp Leu Gly Ser

165 170 175

Ala Pro Pro Ala Gly Ser Val Ser Cys Gly Gly Ser Gly Gly Gly Ser

180 185 190

Gly Arg Pro His Ala Cys Pro Ala Glu Gly Cys Asp Arg Arg Phe Ser

195 200 205

Ser Pro Ala Asp Leu Thr Arg His Leu Arg Ile His Thr Gly His Lys

210 215 220

Pro Phe Gln Cys Arg Ile Cys Met Arg Ser Phe Ser Asp Ser Gly Asn

225 230 235 240

Leu Arg Val His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys

245 250 255

Glu Phe Cys Gly Arg Lys Phe Ala Gln Leu Ala His Leu Arg Ala His

260 265 270

Ala Lys Ile His Leu Lys Gln Lys Glu His Ala Cys Pro Ala Glu Gly

275 280 285

Cys Asp Arg Arg Phe Ser Gln Arg Ala Asn Leu Arg Ala His Leu Arg

290 295 300

Ile His Thr Gly His Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Ser

305 310 315 320

Phe Ser Arg Glu Asp Asn Leu His Thr His Ile Arg Thr His Thr Gly

325 330 335

Glu Lys Pro Phe Ala Cys Glu Phe Cys Gly Arg Lys Phe Ala Arg Ser

340 345 350

Asp Asn Leu Val Arg His Ala Lys Ile His Leu Lys Gln Lys Glu Lys

355 360 365

Leu Glu Met Ala Asp His Leu Met Leu Ala Glu Gly Tyr Arg Leu Val

370 375 380

Gln Arg Pro Pro Ser Ala Ala Ala Ala His Gly Pro His Ala Leu Arg

385 390 395 400

Thr Leu Pro Pro Tyr Ala Gly Pro Gly Leu Asp Ser Gly Leu Arg Pro

405 410 415

Arg Gly Ala Pro Leu Gly Pro Pro Pro Pro Arg Gln Pro Gly Ala Leu

420 425 430

Ala Tyr Gly Ala Phe Gly Pro Pro Ser Ser Phe Gln Pro Phe Pro Ala

435 440 445

Val Pro Pro Pro Ala Ala Gly Ile Ala His Leu Gln Pro Val Ala Thr

450 455 460

Pro Tyr Pro Gly Arg Ala Ala Ala Pro Pro Asn Ala Pro Gly Gly Pro

465 470 475 480

Pro Gly Pro Gln Pro Ala Pro Ser Ala Ala Ala Pro Pro Pro Pro Ala

485 490 495

His Ala Leu Gly Gly Met Asp Ala Glu Leu Ile Asp Glu Glu Ala Leu

500 505 510

Thr Ser Leu Glu Leu Glu Leu Gly Leu His Arg Val Arg Glu Leu Pro

515 520 525

Glu Leu Phe Leu Gly Gln Ser Glu Phe Asp Cys Phe Ser Asp Leu Gly

530 535 540

Ser Ala Pro Pro Ala Gly Ser Val Ser Cys

545 550

<210> 78

<211> 453

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 78

Met Arg Pro His Ala Cys Pro Ala Glu Gly Cys Asp Arg Arg Phe Ser

1 5 10 15

Arg Arg Asp Glu Leu Asn Val His Leu Arg Ile His Thr Gly His Lys

20 25 30

Pro Phe Gln Cys Arg Ile Cys Met Arg Ser Phe Ser Ser Arg Arg Thr
35 40 45

Cys Arg Ala His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys
50 55 60

Glu Phe Cys Gly Arg Lys Phe Ala Gln Ser Ser Asn Leu Val Arg His
65 70 75 80

Ala Lys Ile His Leu Lys Gln Lys Glu His Ala Cys Pro Ala Glu Gly
85 90 95

Cys Asp Arg Arg Phe Ser Gln Leu Ala His Leu Arg Ala His Leu Arg
100 105 110

Ile His Thr Gly His Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Ser
115 120 125

Phe Ser Thr Ser Gly Asn Leu Val Arg His Ile Arg Thr His Thr Gly
130 135 140

Glu Lys Pro Phe Ala Cys Glu Phe Cys Gly Arg Lys Phe Ala His Arg

145 150 155 160

Thr Thr Leu Thr Asn His Ala Lys Ile His Leu Lys Gln Lys Glu Lys

165 170 175

Leu Glu Met Ser Gly Leu Glu Met Ala Asp His Met Met Ala Met Asn

180 185 190

His Gly Arg Phe Pro Asp Gly Thr Asn Gly Leu His His His Pro Ala

195 200 205

His Arg Met Gly Met Gly Gln Phe Pro Ser Pro His His His Gln Gln

210 215 220

Gln Gln Pro Gln His Ala Phe Asn Ala Leu Met Gly Glu His Ile His

225 230 235 240

Tyr Gly Ala Gly Asn Met Asn Ala Thr Ser Gly Ile Arg His Ala Met

245 250 255

Gly Pro Gly Thr Val Asn Gly Gly His Pro Pro Ser Ala Leu Ala Pro

260 265 270

Ala Ala Arg Phe Asn Asn Ser Gln Phe Met Gly Pro Pro Val Ala Ser

275 280 285

Gln Gly Gly Ser Leu Pro Ala Ser Met Gln Leu Gln Lys Leu Asn Asn

290 295 300

Gln Tyr Phe Asn His His Pro Tyr Pro His Asn His Tyr Met Pro Asp

305 310 315 320

Leu His Pro Ala Ala Gly His Gln Met Asn Gly Thr Asn Gln His Phe

325 330 335

Arg Asp Cys Asn Pro Lys His Ser Gly Gly Ser Ser Thr Pro Gly Gly

340 345 350

Ser Gly Gly Ser Ser Thr Pro Gly Gly Ser Gly Ser Ser Ser Gly Gly

355 360 365

Gly Ala Gly Ser Ser Asn Ser Gly Gly Gly Ser Gly Ser Gly Asn Met

370 375 380

Pro Ala Ser Val Ala His Val Pro Ala Ala Met Leu Pro Pro Asn Val

385 390 395 400

Ile Asp Thr Asp Phe Ile Asp Glu Glu Val Leu Met Ser Leu Val Ile

405 410 415

Glu Met Gly Leu Asp Arg Ile Lys Glu Leu Pro Glu Leu Trp Leu Gly

420 425 430

Gln Asn Glu Phe Asp Phe Met Thr Asp Phe Val Cys Lys Gln Gln Pro

435 440 445

Ser Arg Val Ser Cys

450

<210> 79

<211> 554

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 79

Met Ala Ala Asp His Leu Met Leu Ala Glu Gly Tyr Arg Leu Val Gln

1 5 10 15

Arg Pro Pro Ser Ala Ala Ala Ala His Gly Pro His Ala Leu Arg Thr

20 25 30

Leu Pro Pro Tyr Ala Gly Pro Gly Leu Asp Ser Gly Leu Arg Pro Arg

35 40 45

Gly Ala Pro Leu Gly Pro Pro Pro Pro Arg Gln Pro Gly Ala Leu Ala

50 55 60

Tyr Gly Ala Phe Gly Pro Pro Ser Ser Phe Gln Pro Phe Pro Ala Val

65 70 75 80

Pro Pro Pro Ala Ala Gly Ile Ala His Leu Gln Pro Val Ala Thr Pro

85 90 95

Tyr Pro Gly Arg Ala Ala Ala Pro Pro Asn Ala Pro Gly Gly Pro Pro

100 105 110

Gly Pro Gln Pro Ala Pro Ser Ala Ala Ala Pro Pro Pro Pro Ala His

115 120 125

Ala Leu Gly Gly Met Asp Ala Glu Leu Ile Asp Glu Glu Ala Leu Thr

130 135 140

Ser Leu Glu Leu Glu Leu Gly Leu His Arg Val Arg Glu Leu Pro Glu

145 150 155 160

Leu Phe Leu Gly Gln Ser Glu Phe Asp Cys Phe Ser Asp Leu Gly Ser

165 170 175

Ala Pro Pro Ala Gly Ser Val Ser Cys Gly Gly Ser Gly Gly Gly Ser

180 185 190

Gly Arg Pro His Ala Cys Pro Ala Glu Gly Cys Asp Arg Arg Phe Ser

195 200 205

Arg Arg Asp Glu Leu Asn Val His Leu Arg Ile His Thr Gly His Lys

210 215 220

Pro Phe Gln Cys Arg Ile Cys Met Arg Ser Phe Ser Ser Arg Arg Thr

225 230 235 240

Cys Arg Ala His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys

245 250 255

Glu Phe Cys Gly Arg Lys Phe Ala Gln Ser Ser Asn Leu Val Arg His

260 265 270

Ala Lys Ile His Leu Lys Gln Lys Glu His Ala Cys Pro Ala Glu Gly

275 280 285

Cys Asp Arg Arg Phe Ser Gln Leu Ala His Leu Arg Ala His Leu Arg

290 295 300

Ile His Thr Gly His Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Ser

305 310 315 320

Phe Ser Thr Ser Gly Asn Leu Val Arg His Ile Arg Thr His Thr Gly

325 330 335

Glu Lys Pro Phe Ala Cys Glu Phe Cys Gly Arg Lys Phe Ala His Arg

340 345 350

Thr Thr Leu Thr Asn His Ala Lys Ile His Leu Lys Gln Lys Glu Lys

355 360 365

Leu Glu Met Ala Asp His Leu Met Leu Ala Glu Gly Tyr Arg Leu Val

370 375 380

Gln Arg Pro Pro Ser Ala Ala Ala Ala His Gly Pro His Ala Leu Arg

385 390 395 400

Thr Leu Pro Pro Tyr Ala Gly Pro Gly Leu Asp Ser Gly Leu Arg Pro

405 410 415

Arg Gly Ala Pro Leu Gly Pro Pro Pro Pro Arg Gln Pro Gly Ala Leu

420 425 430

Ala Tyr Gly Ala Phe Gly Pro Pro Ser Ser Phe Gln Pro Phe Pro Ala

435 440 445

Val Pro Pro Pro Ala Ala Gly Ile Ala His Leu Gln Pro Val Ala Thr

450 455 460

Pro Tyr Pro Gly Arg Ala Ala Ala Pro Pro Asn Ala Pro Gly Gly Pro

465 470 475 480

Pro Gly Pro Gln Pro Ala Pro Ser Ala Ala Ala Pro Pro Pro Pro Ala

485 490 495

His Ala Leu Gly Gly Met Asp Ala Glu Leu Ile Asp Glu Glu Ala Leu

500 505 510

Thr Ser Leu Glu Leu Glu Leu Gly Leu His Arg Val Arg Glu Leu Pro

515 520 525

Glu Leu Phe Leu Gly Gln Ser Glu Phe Asp Cys Phe Ser Asp Leu Gly

530 535 540

Ser Ala Pro Pro Ala Gly Ser Val Ser Cys

545 550

<210> 80

<211> 362

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 80

Met Arg Pro His Ala Cys Pro Ala Glu Gly Cys Asp Arg Arg Phe Ser

1 5 10 15

Arg Arg Asp Glu Leu Asn Val His Leu Arg Ile His Thr Gly His Lys

20 25 30

Pro Phe Gln Cys Arg Ile Cys Met Arg Ser Phe Ser Ser Arg Arg Thr

35 40 45

Cys Arg Ala His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys

50 55 60

Glu Phe Cys Gly Arg Lys Phe Ala Gln Ser Ser Asn Leu Val Arg His

65 70 75 80

Ala Lys Ile His Leu Lys Gln Lys Glu His Ala Cys Pro Ala Glu Gly

85 90 95

Cys Asp Arg Arg Phe Ser Gln Leu Ala His Leu Arg Ala His Leu Arg

100 105 110

Ile His Thr Gly His Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Ser

115 120 125

Phe Ser Thr Ser Gly Asn Leu Val Arg His Ile Arg Thr His Thr Gly

130 135 140

Glu Lys Pro Phe Ala Cys Glu Phe Cys Gly Arg Lys Phe Ala His Arg

145 150 155 160

Thr Thr Leu Thr Asn His Ala Lys Ile His Leu Lys Gln Lys Glu Lys

165 170 175

Leu Glu Met Ala Asp His Leu Met Leu Ala Glu Gly Tyr Arg Leu Val

180 185 190

Gln Arg Pro Pro Ser Ala Ala Ala Ala His Gly Pro His Ala Leu Arg

195 200 205

Thr Leu Pro Pro Tyr Ala Gly Pro Gly Leu Asp Ser Gly Leu Arg Pro

210 215 220

Arg Gly Ala Pro Leu Gly Pro Pro Pro Pro Arg Gln Pro Gly Ala Leu

225 230 235 240

Ala Tyr Gly Ala Phe Gly Pro Pro Ser Ser Phe Gln Pro Phe Pro Ala

245 250 255

Val Pro Pro Pro Ala Ala Gly Ile Ala His Leu Gln Pro Val Ala Thr

260 265 270

Pro Tyr Pro Gly Arg Ala Ala Ala Pro Pro Asn Ala Pro Gly Gly Pro

275 280 285

Pro Gly Pro Gln Pro Ala Pro Ser Ala Ala Ala Pro Pro Pro Pro Ala

290 295 300

His Ala Leu Gly Gly Met Asp Ala Glu Leu Ile Asp Glu Glu Ala Leu

305 310 315 320

Thr Ser Leu Glu Leu Glu Leu Gly Leu His Arg Val Arg Glu Leu Pro

325 330 335

Glu Leu Phe Leu Gly Gln Ser Glu Phe Asp Cys Phe Ser Asp Leu Gly

340 345 350

Ser Ala Pro Pro Ala Gly Ser Val Ser Cys

355 360

<210> 81

<211> 176

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 81

Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

1 5 10 15

Phe Ser Arg Arg Asp Glu Leu Asn Val His Gln Arg Thr His Thr Gly

20 25 30

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Ser Arg

35 40 45

Arg Thr Cys Arg Ala His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr

50 55 60

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Ser Ser Asn Leu Val

65 70 75 80

Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu

85 90 95

Cys Gly Lys Ser Phe Ser Gln Leu Ala His Leu Arg Ala His Gln Arg

100 105 110

Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

115 120 125

Phe Ser Thr Ser Gly Asn Leu Val Arg His Gln Arg Thr His Thr Gly

130 135 140

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser His Arg

145 150 155 160

Thr Thr Leu Thr Asn His Gln Arg Thr His Thr Gly Lys Lys Thr Ser

165 170 175

<210> 82

<211> 202

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 82

Met Gln Ser Gln Leu Ile Lys Pro Ser Arg Met Arg Lys Tyr Pro Asn

1 5 10 15

Arg Pro Ser Lys Thr Pro Pro His Glu Arg Pro Tyr Ala Cys Pro Val

20 25 30

Glu Ser Cys Asp Arg Arg Phe Ser Arg Arg Asp Glu Leu Asn Val His

35 40 45

Ile Arg Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met

50 55 60

Arg Asn Phe Ser Ser Arg Arg Thr Cys Arg Ala His Ile Arg Thr His

65 70 75 80

Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala

85 90 95

Gln Ser Ser Asn Leu Val Arg His Thr Lys Ile His Leu Arg Gln Lys

100 105 110

Asp Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser

115 120 125

Gln Leu Ala His Leu Arg Ala His Ile Arg Ile His Thr Gly Gln Lys

130 135 140

Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Thr Ser Gly Asn

145 150 155 160

Leu Val Arg His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys

165 170 175

Asp Ile Cys Gly Arg Lys Phe Ala His Arg Thr Thr Leu Thr Asn His

180 185 190

Thr Lys Ile His Leu Arg Gln Lys Asp Lys

195 200

<210> 83

<211> 201

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 83

Gln Ser Gln Leu Ile Lys Pro Ser Arg Met Arg Lys Tyr Pro Asn Arg

1 5 10 15

Pro Ser Lys Thr Pro Pro His Glu Arg Pro Tyr Ala Cys Pro Val Glu

20 25 30

Ser Cys Asp Arg Arg Phe Ser Arg Arg Asp Glu Leu Asn Val His Ile

35 40 45

Arg Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg

50 55 60

Asn Phe Ser Ser Arg Arg Thr Cys Arg Ala His Ile Arg Thr His Thr

65 70 75 80

Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Gln

85 90 95

Ser Ser Asn Leu Val Arg His Thr Lys Ile His Leu Arg Gln Lys Asp

100 105 110

Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Gln

115 120 125

Leu Ala His Leu Arg Ala His Ile Arg Ile His Thr Gly Gln Lys Pro

130 135 140

Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Thr Ser Gly Asn Leu

145 150 155 160

Val Arg His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp

165 170 175

Ile Cys Gly Arg Lys Phe Ala His Arg Thr Thr Leu Thr Asn His Thr

180 185 190

Lys Ile His Leu Arg Gln Lys Asp Lys

195 200

<210> 84

<211> 176

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 84

Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Arg

1 5 10 15

Ser Asp Asn Leu Val Arg His Ile Arg Ile His Thr Gly Gln Lys Pro

20 25 30

Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Glu Asp Asn Leu

35 40 45

His Thr His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp

50 55 60

Ile Cys Gly Arg Lys Phe Ala Arg Ser Asp Glu Leu Val Arg His Thr

65 70 75 80

Lys Ile His Leu Arg Gln Lys Asp Arg Pro Tyr Ala Cys Pro Val Glu

85 90 95

Ser Cys Asp Arg Arg Phe Ser Gln Ser Gly Asn Leu Thr Glu His Ile

100 105 110

Arg Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg

115 120 125

Asn Phe Ser Thr Ser Gly His Leu Val Arg His Ile Arg Thr His Thr

130 135 140

Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Gln

145 150 155 160

Asn Ser Thr Leu Thr Glu His Thr Lys Ile His Leu Arg Gln Lys Asp

165 170 175

<210> 85

<211> 201

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 85

Gln Ser Gln Leu Ile Lys Pro Ser Arg Met Arg Lys Tyr Pro Asn Arg

1 5 10 15

Pro Ser Lys Thr Pro Pro His Glu Arg Pro Tyr Ala Cys Pro Val Glu

20 25 30

Ser Cys Asp Arg Arg Phe Ser Arg Ser Asp Asn Leu Val Arg His Ile

35 40 45

Arg Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg

50 55 60

Asn Phe Ser Arg Glu Asp Asn Leu His Thr His Ile Arg Thr His Thr

65 70 75 80

Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Arg

85 90 95

Ser Asp Glu Leu Val Arg His Thr Lys Ile His Leu Arg Gln Lys Asp

100 105 110

Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Gln

115 120 125

Ser Gly Asn Leu Thr Glu His Ile Arg Ile His Thr Gly Gln Lys Pro

130 135 140

Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Thr Ser Gly His Leu

145 150 155 160

Val Arg His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp

165 170 175

Ile Cys Gly Arg Lys Phe Ala Gln Asn Ser Thr Leu Thr Glu His Thr

180 185 190

Lys Ile His Leu Arg Gln Lys Asp Lys

195 200

<210> 86

<211> 202

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 86

Met Gln Ser Gln Leu Ile Lys Pro Ser Arg Met Arg Lys Tyr Pro Asn

1 5 10 15

Arg Pro Ser Lys Thr Pro Pro His Glu Arg Pro Tyr Ala Cys Pro Val

20 25 30

Glu Ser Cys Asp Arg Arg Phe Ser Ser Pro Ala Asp Leu Thr Arg His

35 40 45

Ile Arg Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met

50 55 60

Arg Asn Phe Ser Asp Ser Gly Asn Leu Arg Val His Ile Arg Thr His

65 70 75 80

Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala

85 90 95

Gln Leu Ala His Leu Arg Ala His Thr Lys Ile His Leu Arg Gln Lys

100 105 110

Asp Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser

115 120 125

Gln Arg Ala Asn Leu Arg Ala His Ile Arg Ile His Thr Gly Gln Lys

130 135 140

Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Glu Asp Asn

145 150 155 160

Leu His Thr His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys

165 170 175

Asp Ile Cys Gly Arg Lys Phe Ala Arg Ser Asp Asn Leu Val Arg His

180 185 190

Thr Lys Ile His Leu Arg Gln Lys Asp Lys

195 200

<210> 87

<211> 177

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 87

Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Arg

1 5 10 15

Arg Asp Glu Leu Asn Val His Ile Arg Ile His Thr Gly Gln Lys Pro

20 25 30

Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Ser Arg Arg Thr Cys

35 40 45

Arg Ala His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp

50 55 60

Ile Cys Gly Arg Lys Phe Ala Gln Ser Ser Asn Leu Val Arg His Thr

65 70 75 80

Lys Ile His Leu Arg Gln Lys Asp Arg Pro Tyr Ala Cys Pro Val Glu

85 90 95

Ser Cys Asp Arg Arg Phe Ser Gln Leu Ala His Leu Arg Ala His Ile

100 105 110

Arg Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg

115 120 125

Asn Phe Ser Thr Ser Gly Asn Leu Val Arg His Ile Arg Thr His Thr

130 135 140

Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala His

145 150 155 160

Arg Thr Thr Leu Thr Asn His Thr Lys Ile His Leu Arg Gln Lys Asp

165 170 175

Lys

<210> 88

<211> 177

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 88

Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Arg

1 5 10 15

Ser Asp Asn Leu Val Arg His Ile Arg Ile His Thr Gly Gln Lys Pro

20 25 30

Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Glu Asp Asn Leu

35 40 45

His Thr His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp

50 55 60

Ile Cys Gly Arg Lys Phe Ala Arg Ser Asp Glu Leu Val Arg His Thr

65 70 75 80

Lys Ile His Leu Arg Gln Lys Asp Arg Pro Tyr Ala Cys Pro Val Glu

85 90 95

Ser Cys Asp Arg Arg Phe Ser Gln Ser Gly Asn Leu Thr Glu His Ile

100 105 110

Arg Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg

115 120 125

Asn Phe Ser Thr Ser Gly His Leu Val Arg His Ile Arg Thr His Thr

130 135 140

Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Gln

145 150 155 160

Asn Ser Thr Leu Thr Glu His Thr Lys Ile His Leu Arg Gln Lys Asp

165 170 175

Lys

<210> 89

<211> 177

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 89

Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Ser

1 5 10 15

Pro Ala Asp Leu Thr Arg His Ile Arg Ile His Thr Gly Gln Lys Pro

20 25 30

Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Asp Ser Gly Asn Leu

35 40 45

Arg Val His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp

50 55 60

Ile Cys Gly Arg Lys Phe Ala Gln Leu Ala His Leu Arg Ala His Thr

65 70 75 80

Lys Ile His Leu Arg Gln Lys Asp Arg Pro Tyr Ala Cys Pro Val Glu

85 90 95

Ser Cys Asp Arg Arg Phe Ser Gln Arg Ala Asn Leu Arg Ala His Ile

100 105 110

Arg Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg

115 120 125

Asn Phe Ser Arg Glu Asp Asn Leu His Thr His Ile Arg Thr His Thr

130 135 140

Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Arg

145 150 155 160

Ser Asp Asn Leu Val Arg His Thr Lys Ile His Leu Arg Gln Lys Asp

165 170 175

Lys

<210> 90

<211> 201

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 90

Gln Ser Gln Leu Ile Lys Pro Ser Arg Met Arg Lys Tyr Pro Asn Arg
1 5 10 15

Pro Ser Lys Thr Pro Pro His Glu Arg Pro Tyr Ala Cys Pro Val Glu
20 25 30

Ser Cys Asp Arg Arg Phe Ser Arg Ser Asp Asn Leu Val Arg His Ile
35 40 45

Arg Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg
50 55 60

Asn Phe Ser His Arg Thr Thr Leu Thr Asn His Ile Arg Thr His Thr
65 70 75 80

Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Arg
85 90 95

Glu Asp Asn Leu His Thr His Thr Lys Ile His Leu Arg Gln Lys Asp
100 105 110

Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Thr

115 120 125

Ser His Ser Leu Thr Glu His Ile Arg Ile His Thr Gly Gln Lys Pro

130 135 140

Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Gln Ser Ser Ser Leu

145 150 155 160

Val Arg His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp

165 170 175

Ile Cys Gly Arg Lys Phe Ala Arg Glu Asp Asn Leu His Thr His Thr

180 185 190

Lys Ile His Leu Arg Gln Lys Asp Lys

195 200

<210> 91

<211> 201

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 91

Gln Ser Gln Leu Ile Lys Pro Ser Arg Met Arg Lys Tyr Pro Asn Arg
1 5 10 15

Pro Ser Lys Thr Pro Pro His Glu Arg Pro Tyr Ala Cys Pro Val Glu
20 25 30

Ser Cys Asp Arg Arg Phe Ser Arg Ser Asp Asn Leu Val Arg His Ile
35 40 45

Arg Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg
50 55 60

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

Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Arg
85 90 95

Ser Asp Glu Leu Val Arg His Thr Lys Ile His Leu Arg Gln Lys Asp
100 105 110

Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Gln

115 120 125

Ser Gly Asn Leu Thr Glu His Ile Arg Ile His Thr Gly Gln Lys Pro

130 135 140

Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Thr Ser Gly His Leu

145 150 155 160

Val Arg His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp

165 170 175

Ile Cys Gly Arg Lys Phe Ala Gln Asn Ser Thr Leu Thr Glu His Thr

180 185 190

Lys Ile His Leu Arg Gln Lys Asp Lys

195 200

<210> 92

<211> 172

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 92

His Ala Cys Pro Ala Glu Gly Cys Asp Arg Arg Phe Ser Arg Ser Asp
1 5 10 15

Asn Leu Val Arg His Leu Arg Ile His Thr Gly His Lys Pro Phe Gln
20 25 30

Cys Arg Ile Cys Met Arg Ser Phe Ser Arg Glu Asp Asn Leu His Thr
35 40 45

His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Glu Phe Cys
50 55 60

Gly Arg Lys Phe Ala Arg Ser Asp Glu Leu Val Arg His Ala Lys Ile
65 70 75 80

His Leu Lys Gln Lys Glu His Ala Cys Pro Ala Glu Gly Cys Asp Arg
85 90 95

Arg Phe Ser Gln Ser Gly Asn Leu Thr Glu His Leu Arg Ile His Thr
100 105 110

Gly His Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Ser Phe Ser Thr

115 120 125

Ser Gly His Leu Val Arg His Ile Arg Thr His Thr Gly Glu Lys Pro

130 135 140

Phe Ala Cys Glu Phe Cys Gly Arg Lys Phe Ala Gln Asn Ser Thr Leu

145 150 155 160

Thr Glu His Ala Lys Ile His Leu Lys Gln Lys Glu

165 170

<210> 93

<211> 172

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 93

His Ala Cys Pro Ala Glu Gly Cys Asp Arg Arg Phe Ser Ser Pro Ala

1 5 10 15

Asp Leu Thr Arg His Leu Arg Ile His Thr Gly His Lys Pro Phe Gln

20 25 30

Cys Arg Ile Cys Met Arg Ser Phe Ser Asp Ser Gly Asn Leu Arg Val

35 40 45

His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Glu Phe Cys

50 55 60

Gly Arg Lys Phe Ala Gln Leu Ala His Leu Arg Ala His Ala Lys Ile

65 70 75 80

His Leu Lys Gln Lys Glu His Ala Cys Pro Ala Glu Gly Cys Asp Arg

85 90 95

Arg Phe Ser Gln Arg Ala Asn Leu Arg Ala His Leu Arg Ile His Thr

100 105 110

Gly His Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Ser Phe Ser Arg

115 120 125

Glu Asp Asn Leu His Thr His Ile Arg Thr His Thr Gly Glu Lys Pro

130 135 140

Phe Ala Cys Glu Phe Cys Gly Arg Lys Phe Ala Arg Ser Asp Asn Leu

145 150 155 160

Val Arg His Ala Lys Ile His Leu Lys Gln Lys Glu

165 170

<210> 94

<211> 172

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 94

His Ala Cys Pro Ala Glu Gly Cys Asp Arg Arg Phe Ser Arg Arg Asp

1 5 10 15

Glu Leu Asn Val His Leu Arg Ile His Thr Gly His Lys Pro Phe Gln

20 25 30

Cys Arg Ile Cys Met Arg Ser Phe Ser Ser Arg Arg Thr Cys Arg Ala

35 40 45

His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Glu Phe Cys

50 55 60

Gly Arg Lys Phe Ala Gln Ser Ser Asn Leu Val Arg His Ala Lys Ile

65 70 75 80

His Leu Lys Gln Lys Glu His Ala Cys Pro Ala Glu Gly Cys Asp Arg

85 90 95

Arg Phe Ser Gln Leu Ala His Leu Arg Ala His Leu Arg Ile His Thr

100 105 110

Gly His Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Ser Phe Ser Thr

115 120 125

Ser Gly Asn Leu Val Arg His Ile Arg Thr His Thr Gly Glu Lys Pro

130 135 140

Phe Ala Cys Glu Phe Cys Gly Arg Lys Phe Ala His Arg Thr Thr Leu

145 150 155 160

Thr Asn His Ala Lys Ile His Leu Lys Gln Lys Glu

165 170

<210> 95

<211> 50

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 95

Asp Ala Leu Asp Asp Phe Asp Leu Asp Met Leu Gly Ser Asp Ala Leu

1 5 10 15

Asp Asp Phe Asp Leu Asp Met Leu Gly Ser Asp Ala Leu Asp Asp Phe

20 25 30

Asp Leu Asp Met Leu Gly Ser Asp Ala Leu Asp Asp Phe Asp Leu Asp

35 40 45

Met Leu

50

<210> 96

<211> 275

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 96

Met Ser Gly Leu Glu Met Ala Asp His Met Met Ala Met Asn His Gly
1 5 10 15

Arg Phe Pro Asp Gly Thr Asn Gly Leu His His His Pro Ala His Arg
20 25 30

Met Gly Met Gly Gln Phe Pro Ser Pro His His His Gln Gln Gln Gln
35 40 45

Pro Gln His Ala Phe Asn Ala Leu Met Gly Glu His Ile His Tyr Gly
50 55 60

Ala Gly Asn Met Asn Ala Thr Ser Gly Val Arg His Ala Met Gly Pro
65 70 75 80

Gly Thr Val Asn Gly Gly His Pro Pro Ser Ala Leu Ala Pro Ala Ala
85 90 95

Arg Phe Asn Asn Ser Gln Phe Met Gly Pro Pro Val Ala Ser Gln Gly

100 105 110

Gly Ser Leu Pro Ala Ser Met Gln Leu Gln Lys Leu Asn Asn Gln Tyr

115 120 125

Phe Asn His His Pro Tyr Pro His Asn His Tyr Met Pro Asp Leu His

130 135 140

Pro Ala Ala Gly His Gln Met Asn Gly Thr Asn Gln His Phe Arg Asp

145 150 155 160

Cys Asn Pro Lys His Ser Gly Gly Ser Ser Thr Pro Gly Gly Ser Gly

165 170 175

Gly Ser Ser Thr Pro Gly Gly Ser Gly Ser Ser Ser Gly Gly Gly Ala

180 185 190

Gly Ser Ser Asn Ser Gly Gly Gly Ser Gly Ser Gly Asn Met Pro Ala

195 200 205

Ser Val Ala His Val Pro Ala Ala Met Leu Pro Pro Asn Val Ile Asp

210 215 220

Thr Asp Phe Ile Asp Glu Glu Val Leu Met Ser Leu Val Ile Glu Met

225 230 235 240

Gly Leu Asp Arg Ile Lys Glu Leu Pro Glu Leu Trp Leu Gly Gln Asn

245 250 255

Glu Phe Asp Phe Met Thr Asp Phe Val Cys Lys Gln Gln Pro Ser Arg

260 265 270

Val Ser Cys

275

<210> 97

<211> 184

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 97

Met Ala Asp His Leu Met Leu Ala Glu Gly Tyr Arg Leu Val Gln Arg

1 5 10 15

Pro Pro Ser Ala Ala Ala Ala His Gly Pro His Ala Leu Arg Thr Leu

20 25 30

Pro Pro Tyr Ala Gly Pro Gly Leu Asp Ser Gly Leu Arg Pro Arg Gly

35 40 45

Ala Pro Leu Gly Pro Pro Pro Pro Arg Gln Pro Gly Ala Leu Ala Tyr

50 55 60

Gly Ala Phe Gly Pro Pro Ser Ser Phe Gln Pro Phe Pro Ala Val Pro

65 70 75 80

Pro Pro Ala Ala Gly Ile Ala His Leu Gln Pro Val Ala Thr Pro Tyr

85 90 95

Pro Gly Arg Ala Ala Ala Pro Pro Asn Ala Pro Gly Gly Pro Pro Gly

100 105 110

Pro Gln Pro Ala Pro Ser Ala Ala Ala Pro Pro Pro Pro Ala His Ala

115 120 125

Leu Gly Gly Met Asp Ala Glu Leu Ile Asp Glu Glu Ala Leu Thr Ser

130 135 140

Leu Glu Leu Glu Leu Gly Leu His Arg Val Arg Glu Leu Pro Glu Leu

145 150 155 160

Phe Leu Gly Gln Ser Glu Phe Asp Cys Phe Ser Asp Leu Gly Ser Ala

165 170 175

Pro Pro Ala Gly Ser Val Ser Cys

180

<210> 98

<211> 274

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 98

Ser Gly Leu Glu Met Ala Asp His Met Met Ala Met Asn His Gly Arg

1 5 10 15

Phe Pro Asp Gly Thr Asn Gly Leu His His His Pro Ala His Arg Met

20 25 30

Gly Met Gly Gln Phe Pro Ser Pro His His His Gln Gln Gln Gln Pro

35 40 45

Gln His Ala Phe Asn Ala Leu Met Gly Glu His Ile His Tyr Gly Ala

50 55 60

Gly Asn Met Asn Ala Thr Ser Gly Val Arg His Ala Met Gly Pro Gly

65 70 75 80

Thr Val Asn Gly Gly His Pro Pro Ser Ala Leu Ala Pro Ala Ala Arg

85 90 95

Phe Asn Asn Ser Gln Phe Met Gly Pro Pro Val Ala Ser Gln Gly Gly

100 105 110

Ser Leu Pro Ala Ser Met Gln Leu Gln Lys Leu Asn Asn Gln Tyr Phe

115 120 125

Asn His His Pro Tyr Pro His Asn His Tyr Met Pro Asp Leu His Pro

130 135 140

Ala Ala Gly His Gln Met Asn Gly Thr Asn Gln His Phe Arg Asp Cys

145 150 155 160

Asn Pro Lys His Ser Gly Gly Ser Ser Thr Pro Gly Gly Ser Gly Gly

165 170 175

Ser Ser Thr Pro Gly Gly Ser Gly Ser Ser Ser Gly Gly Gly Ala Gly

180 185 190

Ser Ser Asn Ser Gly Gly Gly Ser Gly Ser Gly Asn Met Pro Ala Ser

195 200 205

Val Ala His Val Pro Ala Ala Met Leu Pro Pro Asn Val Ile Asp Thr

210 215 220

Asp Phe Ile Asp Glu Glu Val Leu Met Ser Leu Val Ile Glu Met Gly

225 230 235 240

Leu Asp Arg Ile Lys Glu Leu Pro Glu Leu Trp Leu Gly Gln Asn Glu

245 250 255

Phe Asp Phe Met Thr Asp Phe Val Cys Lys Gln Gln Pro Ser Arg Val

260 265 270

Ser Cys

<210> 99

<211> 275

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 99

Met Ser Gly Leu Glu Met Ala Asp His Met Met Ala Met Asn His Gly
1 5 10 15

Arg Phe Pro Asp Gly Thr Asn Gly Leu His His His Pro Ala His Arg
20 25 30

Met Gly Met Gly Gln Phe Pro Ser Pro His His His Gln Gln Gln Gln
35 40 45

Pro Gln His Ala Phe Asn Ala Leu Met Gly Glu His Ile His Tyr Gly
50 55 60

Ala Gly Asn Met Asn Ala Thr Ser Gly Val Arg His Ala Met Gly Pro
65 70 75 80

Gly Thr Val Asn Gly Gly His Pro Pro Ser Ala Leu Ala Pro Ala Ala

85 90 95

Arg Phe Asn Asn Ser Gln Phe Met Gly Pro Pro Val Ala Ser Gln Gly

100 105 110

Gly Ser Leu Pro Ala Ser Met Gln Leu Gln Lys Leu Asn Asn Gln Tyr

115 120 125

Phe Asn His His Pro Tyr Pro His Asn His Tyr Met Pro Asp Leu His

130 135 140

Pro Ala Ala Gly His Gln Met Asn Gly Thr Asn Gln His Phe Arg Asp

145 150 155 160

Cys Asn Pro Lys His Ser Gly Gly Ser Ser Thr Pro Gly Gly Ser Gly

165 170 175

Gly Ser Ser Thr Pro Gly Gly Ser Gly Ser Ser Ser Gly Gly Gly Ala

180 185 190

Gly Ser Ser Asn Ser Gly Gly Gly Ser Gly Ser Gly Asn Met Pro Ala

195 200 205

Ser Val Ala His Val Pro Ala Ala Met Leu Pro Pro Asn Val Ile Asp

210 215 220

Thr Asp Phe Ile Asp Glu Glu Val Leu Met Ser Leu Val Ile Glu Met

225 230 235 240

Gly Leu Asp Arg Ile Lys Glu Leu Pro Glu Leu Trp Leu Gly Gln Asn

245 250 255

Glu Phe Asp Phe Met Thr Asp Phe Val Cys Lys Gln Gln Pro Ser Arg

260 265 270

Val Ser Cys

275

<210> 100

<211> 184

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 100

Ala Ala Asp His Leu Met Leu Ala Glu Gly Tyr Arg Leu Val Gln Arg

1 5 10 15

Pro Pro Ser Ala Ala Ala Ala His Gly Pro His Ala Leu Arg Thr Leu

20 25 30

Pro Pro Tyr Ala Gly Pro Gly Leu Asp Ser Gly Leu Arg Pro Arg Gly

35 40 45

Ala Pro Leu Gly Pro Pro Pro Pro Arg Gln Pro Gly Ala Leu Ala Tyr

50 55 60

Gly Ala Phe Gly Pro Pro Ser Ser Phe Gln Pro Phe Pro Ala Val Pro

65 70 75 80

Pro Pro Ala Ala Gly Ile Ala His Leu Gln Pro Val Ala Thr Pro Tyr

85 90 95

Pro Gly Arg Ala Ala Ala Pro Pro Asn Ala Pro Gly Gly Pro Pro Gly

100 105 110

Pro Gln Pro Ala Pro Ser Ala Ala Ala Pro Pro Pro Pro Ala His Ala

115 120 125

Leu Gly Gly Met Asp Ala Glu Leu Ile Asp Glu Glu Ala Leu Thr Ser

130 135 140

Leu Glu Leu Glu Leu Gly Leu His Arg Val Arg Glu Leu Pro Glu Leu

145 150 155 160

Phe Leu Gly Gln Ser Glu Phe Asp Cys Phe Ser Asp Leu Gly Ser Ala

165 170 175

Pro Pro Ala Gly Ser Val Ser Cys

180

<210> 101

<400> 101

000

<210> 102

<211> 76

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

oligonucleótidos sintéticos

<400> 102

gttttagtac tctggaaaca gaatctacta aaacaaggca aaatgccgtg tttatctcgt 60

caacttgttg gcgaga 76

<210> 103

<211> 1052

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 103

Lys Arg Asn Tyr Ile Leu Gly Leu Ala Ile Gly Ile Thr Ser Val Gly
1 5 10 15

Tyr Gly Ile Ile Asp Tyr Glu Thr Arg Asp Val Ile Asp Ala Gly Val
20 25 30

Arg Leu Phe Lys Glu Ala Asn Val Glu Asn Asn Glu Gly Arg Arg Ser
35 40 45

Lys Arg Gly Ala Arg Arg Leu Lys Arg Arg Arg Arg His Arg Ile Gln
50 55 60

Arg Val Lys Lys Leu Leu Phe Asp Tyr Asn Leu Leu Thr Asp His Ser

65 70 75 80

Glu Leu Ser Gly Ile Asn Pro Tyr Glu Ala Arg Val Lys Gly Leu Ser

85 90 95

Gln Lys Leu Ser Glu Glu Glu Phe Ser Ala Ala Leu Leu His Leu Ala

100 105 110

Lys Arg Arg Gly Val His Asn Val Asn Glu Val Glu Glu Asp Thr Gly

115 120 125

Asn Glu Leu Ser Thr Lys Glu Gln Ile Ser Arg Asn Ser Lys Ala Leu

130 135 140

Glu Glu Lys Tyr Val Ala Glu Leu Gln Leu Glu Arg Leu Lys Lys Asp

145 150 155 160

Gly Glu Val Arg Gly Ser Ile Asn Arg Phe Lys Thr Ser Asp Tyr Val

165 170 175

Lys Glu Ala Lys Gln Leu Leu Lys Val Gln Lys Ala Tyr His Gln Leu

180 185 190

Asp Gln Ser Phe Ile Asp Thr Tyr Ile Asp Leu Leu Glu Thr Arg Arg

195 200 205

Thr Tyr Tyr Glu Gly Pro Gly Glu Gly Ser Pro Phe Gly Trp Lys Asp

210 215 220

Ile Lys Glu Trp Tyr Glu Met Leu Met Gly His Cys Thr Tyr Phe Pro

225 230 235 240

Glu Glu Leu Arg Ser Val Lys Tyr Ala Tyr Asn Ala Asp Leu Tyr Asn

245 250 255

Ala Leu Asn Asp Leu Asn Asn Leu Val Ile Thr Arg Asp Glu Asn Glu

260 265 270

Lys Leu Glu Tyr Tyr Glu Lys Phe Gln Ile Ile Glu Asn Val Phe Lys

275 280 285

Gln Lys Lys Lys Pro Thr Leu Lys Gln Ile Ala Lys Glu Ile Leu Val

290 295 300

Asn Glu Glu Asp Ile Lys Gly Tyr Arg Val Thr Ser Thr Gly Lys Pro

305 310 315 320

Glu Phe Thr Asn Leu Lys Val Tyr His Asp Ile Lys Asp Ile Thr Ala

325 330 335

Arg Lys Glu Ile Ile Glu Asn Ala Glu Leu Leu Asp Gln Ile Ala Lys

340 345 350

Ile Leu Thr Ile Tyr Gln Ser Ser Glu Asp Ile Gln Glu Glu Leu Thr

355 360 365

Asn Leu Asn Ser Glu Leu Thr Gln Glu Glu Ile Glu Gln Ile Ser Asn

370 375 380

Leu Lys Gly Tyr Thr Gly Thr His Asn Leu Ser Leu Lys Ala Ile Asn

385 390 395 400

Leu Ile Leu Asp Glu Leu Trp His Thr Asn Asp Asn Gln Ile Ala Ile

405 410 415

Phe Asn Arg Leu Lys Leu Val Pro Lys Lys Val Asp Leu Ser Gln Gln

420 425 430

Lys Glu Ile Pro Thr Thr Leu Val Asp Asp Phe Ile Leu Ser Pro Val

435 440 445

Val Lys Arg Ser Phe Ile Gln Ser Ile Lys Val Ile Asn Ala Ile Ile

450 455 460

Lys Lys Tyr Gly Leu Pro Asn Asp Ile Ile Ile Glu Leu Ala Arg Glu

465 470 475 480

Lys Asn Ser Lys Asp Ala Gln Lys Met Ile Asn Glu Met Gln Lys Arg

485 490 495

Asn Arg Gln Thr Asn Glu Arg Ile Glu Glu Ile Ile Arg Thr Thr Gly

500 505 510

Lys Glu Asn Ala Lys Tyr Leu Ile Glu Lys Ile Lys Leu His Asp Met

515 520 525

Gln Glu Gly Lys Cys Leu Tyr Ser Leu Glu Ala Ile Pro Leu Glu Asp

530 535 540

Leu Leu Asn Asn Pro Phe Asn Tyr Glu Val Asp His Ile Ile Pro Arg

545 550 555 560

Ser Val Ser Phe Asp Asn Ser Phe Asn Asn Lys Val Leu Val Lys Gln

565 570 575

Glu Glu Ala Ser Lys Lys Gly Asn Arg Thr Pro Phe Gln Tyr Leu Ser

580 585 590

Ser Ser Asp Ser Lys Ile Ser Tyr Glu Thr Phe Lys Lys His Ile Leu

595 600 605

Asn Leu Ala Lys Gly Lys Gly Arg Ile Ser Lys Thr Lys Lys Glu Tyr

610 615 620

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

625 630 635 640

Ile Asn Arg Asn Leu Val Asp Thr Arg Tyr Ala Thr Arg Gly Leu Met

645 650 655

Asn Leu Leu Arg Ser Tyr Phe Arg Val Asn Asn Leu Asp Val Lys Val

660 665 670

Lys Ser Ile Asn Gly Gly Phe Thr Ser Phe Leu Arg Arg Lys Trp Lys

675 680 685

Phe Lys Lys Glu Arg Asn Lys Gly Tyr Lys His His Ala Glu Asp Ala

690 695 700

Leu Ile Ile Ala Asn Ala Asp Phe Ile Phe Lys Glu Trp Lys Lys Leu

705 710 715 720

Asp Lys Ala Lys Lys Val Met Glu Asn Gln Met Phe Glu Glu Lys Gln

725 730 735

Ala Glu Ser Met Pro Glu Ile Glu Thr Glu Gln Glu Tyr Lys Glu Ile

740 745 750

Phe Ile Thr Pro His Gln Ile Lys His Ile Lys Asp Phe Lys Asp Tyr

755 760 765

Lys Tyr Ser His Arg Val Asp Lys Lys Pro Asn Arg Glu Leu Ile Asn

770 775 780

Asp Thr Leu Tyr Ser Thr Arg Lys Asp Asp Lys Gly Asn Thr Leu Ile

785 790 795 800

Val Asn Asn Leu Asn Gly Leu Tyr Asp Lys Asp Asn Asp Lys Leu Lys

805 810 815

Lys Leu Ile Asn Lys Ser Pro Glu Lys Leu Leu Met Tyr His His Asp

820 825 830

Pro Gln Thr Tyr Gln Lys Leu Lys Leu Ile Met Glu Gln Tyr Gly Asp

835 840 845

Glu Lys Asn Pro Leu Tyr Lys Tyr Tyr Glu Glu Thr Gly Asn Tyr Leu

850 855 860

Thr Lys Tyr Ser Lys Lys Asp Asn Gly Pro Val Ile Lys Lys Ile Lys

865 870 875 880

Tyr Tyr Gly Asn Lys Leu Asn Ala His Leu Asp Ile Thr Asp Asp Tyr

885 890 895

Pro Asn Ser Arg Asn Lys Val Val Lys Leu Ser Leu Lys Pro Tyr Arg

900 905 910

Phe Asp Val Tyr Leu Asp Asn Gly Val Tyr Lys Phe Val Thr Val Lys

915 920 925

Asn Leu Asp Val Ile Lys Lys Glu Asn Tyr Tyr Glu Val Asn Ser Lys

930 935 940

Cys Tyr Glu Glu Ala Lys Lys Leu Lys Lys Ile Ser Asn Gln Ala Glu

945 950 955 960

Phe Ile Ala Ser Phe Tyr Asn Asn Asp Leu Ile Lys Ile Asn Gly Glu

965 970 975

Leu Tyr Arg Val Ile Gly Val Asn Asn Asp Leu Leu Asn Arg Ile Glu

980 985 990

Val Asn Met Ile Asp Ile Thr Tyr Arg Glu Tyr Leu Glu Asn Met Asn

995 1000 1005

Asp Lys Arg Pro Pro Arg Ile Ile Lys Thr Ile Ala Ser Lys Thr

1010 1015 1020

Gln Ser Ile Lys Lys Tyr Ser Thr Asp Ile Leu Gly Asn Leu Tyr

1025 1030 1035

Glu Val Lys Ser Lys Lys His Pro Gln Ile Ile Lys Lys Gly

1040 1045 1050

<210> 104

<211> 1148

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 104

Met Ala Pro Lys Lys Lys Arg Lys Val Gly Ile His Gly Val Pro Ala
1 5 10 15

Ala Lys Arg Asn Tyr Ile Leu Gly Leu Ala Ile Gly Ile Thr Ser Val
20 25 30

Gly Tyr Gly Ile Ile Asp Tyr Glu Thr Arg Asp Val Ile Asp Ala Gly
35 40 45

Val Arg Leu Phe Lys Glu Ala Asn Val Glu Asn Asn Glu Gly Arg Arg
50 55 60

Ser Lys Arg Gly Ala Arg Arg Leu Lys Arg Arg Arg Arg Arg His Arg Ile
65 70 75 80

Gln Arg Val Lys Lys Leu Leu Phe Asp Tyr Asn Leu Leu Thr Asp His

85 90 95

Ser Glu Leu Ser Gly Ile Asn Pro Tyr Glu Ala Arg Val Lys Gly Leu

100 105 110

Ser Gln Lys Leu Ser Glu Glu Glu Phe Ser Ala Ala Leu Leu His Leu

115 120 125

Ala Lys Arg Arg Gly Val His Asn Val Asn Glu Val Glu Glu Asp Thr

130 135 140

Gly Asn Glu Leu Ser Thr Lys Glu Gln Ile Ser Arg Asn Ser Lys Ala

145 150 155 160

Leu Glu Glu Lys Tyr Val Ala Glu Leu Gln Leu Glu Arg Leu Lys Lys

165 170 175

Asp Gly Glu Val Arg Gly Ser Ile Asn Arg Phe Lys Thr Ser Asp Tyr

180 185 190

Val Lys Glu Ala Lys Gln Leu Leu Lys Val Gln Lys Ala Tyr His Gln

195 200 205

Leu Asp Gln Ser Phe Ile Asp Thr Tyr Ile Asp Leu Leu Glu Thr Arg

210 215 220

Arg Thr Tyr Tyr Glu Gly Pro Gly Glu Gly Ser Pro Phe Gly Trp Lys

225 230 235 240

Asp Ile Lys Glu Trp Tyr Glu Met Leu Met Gly His Cys Thr Tyr Phe

245 250 255

Pro Glu Glu Leu Arg Ser Val Lys Tyr Ala Tyr Asn Ala Asp Leu Tyr

260 265 270

Asn Ala Leu Asn Asp Leu Asn Asn Leu Val Ile Thr Arg Asp Glu Asn

275 280 285

Glu Lys Leu Glu Tyr Tyr Glu Lys Phe Gln Ile Ile Glu Asn Val Phe

290 295 300

Lys Gln Lys Lys Lys Pro Thr Leu Lys Gln Ile Ala Lys Glu Ile Leu

305 310 315 320

Val Asn Glu Glu Asp Ile Lys Gly Tyr Arg Val Thr Ser Thr Gly Lys

325 330 335

Pro Glu Phe Thr Asn Leu Lys Val Tyr His Asp Ile Lys Asp Ile Thr
340 345 350

Ala Arg Lys Glu Ile Ile Glu Asn Ala Glu Leu Leu Asp Gln Ile Ala
355 360 365

Lys Ile Leu Thr Ile Tyr Gln Ser Ser Glu Asp Ile Gln Glu Glu Leu
370 375 380

Thr Asn Leu Asn Ser Glu Leu Thr Gln Glu Glu Ile Glu Gln Ile Ser
385 390 395 400

Asn Leu Lys Gly Tyr Thr Gly Thr His Asn Leu Ser Leu Lys Ala Ile
405 410 415

Asn Leu Ile Leu Asp Glu Leu Trp His Thr Asn Asp Asn Gln Ile Ala
420 425 430

Ile Phe Asn Arg Leu Lys Leu Val Pro Lys Lys Val Asp Leu Ser Gln
435 440 445

Gln Lys Glu Ile Pro Thr Thr Leu Val Asp Asp Phe Ile Leu Ser Pro

450 455 460

Val Val Lys Arg Ser Phe Ile Gln Ser Ile Lys Val Ile Asn Ala Ile

465 470 475 480

Ile Lys Lys Tyr Gly Leu Pro Asn Asp Ile Ile Ile Glu Leu Ala Arg

485 490 495

Glu Lys Asn Ser Lys Asp Ala Gln Lys Met Ile Asn Glu Met Gln Lys

500 505 510

Arg Asn Arg Gln Thr Asn Glu Arg Ile Glu Glu Ile Ile Arg Thr Thr

515 520 525

Gly Lys Glu Asn Ala Lys Tyr Leu Ile Glu Lys Ile Lys Leu His Asp

530 535 540

Met Gln Glu Gly Lys Cys Leu Tyr Ser Leu Glu Ala Ile Pro Leu Glu

545 550 555 560

Asp Leu Leu Asn Asn Pro Phe Asn Tyr Glu Val Asp His Ile Ile Pro

565 570 575

Arg Ser Val Ser Phe Asp Asn Ser Phe Asn Asn Lys Val Leu Val Lys

580 585 590

Gln Glu Glu Ala Ser Lys Lys Gly Asn Arg Thr Pro Phe Gln Tyr Leu

595 600 605

Ser Ser Ser Asp Ser Lys Ile Ser Tyr Glu Thr Phe Lys Lys His Ile

610 615 620

Leu Asn Leu Ala Lys Gly Lys Gly Arg Ile Ser Lys Thr Lys Lys Glu

625 630 635 640

Tyr Leu Leu Glu Glu Arg Asp Ile Asn Arg Phe Ser Val Gln Lys Asp

645 650 655

Phe Ile Asn Arg Asn Leu Val Asp Thr Arg Tyr Ala Thr Arg Gly Leu

660 665 670

Met Asn Leu Leu Arg Ser Tyr Phe Arg Val Asn Asn Leu Asp Val Lys

675 680 685

Val Lys Ser Ile Asn Gly Gly Phe Thr Ser Phe Leu Arg Arg Lys Trp

690 695 700

Lys Phe Lys Lys Glu Arg Asn Lys Gly Tyr Lys His His Ala Glu Asp

705 710 715 720

Ala Leu Ile Ile Ala Asn Ala Asp Phe Ile Phe Lys Glu Trp Lys Lys

725 730 735

Leu Asp Lys Ala Lys Lys Val Met Glu Asn Gln Met Phe Glu Glu Lys

740 745 750

Gln Ala Glu Ser Met Pro Glu Ile Glu Thr Glu Gln Glu Tyr Lys Glu

755 760 765

Ile Phe Ile Thr Pro His Gln Ile Lys His Ile Lys Asp Phe Lys Asp

770 775 780

Tyr Lys Tyr Ser His Arg Val Asp Lys Lys Pro Asn Arg Glu Leu Ile

785 790 795 800

Asn Asp Thr Leu Tyr Ser Thr Arg Lys Asp Asp Lys Gly Asn Thr Leu

805 810 815

Ile Val Asn Asn Leu Asn Gly Leu Tyr Asp Lys Asp Asn Asp Lys Leu

820 825 830

Lys Lys Leu Ile Asn Lys Ser Pro Glu Lys Leu Leu Met Tyr His His
835 840 845

Asp Pro Gln Thr Tyr Gln Lys Leu Lys Leu Ile Met Glu Gln Tyr Gly
850 855 860

Asp Glu Lys Asn Pro Leu Tyr Lys Tyr Tyr Glu Glu Thr Gly Asn Tyr
865 870 875 880

Leu Thr Lys Tyr Ser Lys Lys Asp Asn Gly Pro Val Ile Lys Lys Ile
885 890 895

Lys Tyr Tyr Gly Asn Lys Leu Asn Ala His Leu Asp Ile Thr Asp Asp
900 905 910

Tyr Pro Asn Ser Arg Asn Lys Val Val Lys Leu Ser Leu Lys Pro Tyr
915 920 925

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

Lys Asn Leu Asp Val Ile Lys Lys Glu Asn Tyr Tyr Glu Val Asn Ser

945 950 955 960

Lys Cys Tyr Glu Glu Ala Lys Lys Leu Lys Lys Ile Ser Asn Gln Ala

965 970 975

Glu Phe Ile Ala Ser Phe Tyr Asn Asn Asp Leu Ile Lys Ile Asn Gly

980 985 990

Glu Leu Tyr Arg Val Ile Gly Val Asn Asn Asp Leu Leu Asn Arg Ile

995 1000 1005

Glu Val Asn Met Ile Asp Ile Thr Tyr Arg Glu Tyr Leu Glu Asn

1010 1015 1020

Met Asn Asp Lys Arg Pro Pro Arg Ile Ile Lys Thr Ile Ala Ser

1025 1030 1035

Lys Thr Gln Ser Ile Lys Lys Tyr Ser Thr Asp Ile Leu Gly Asn

1040 1045 1050

Leu Tyr Glu Val Lys Ser Lys Lys His Pro Gln Ile Ile Lys Lys

1055 1060 1065

Gly Lys Arg Pro Ala Ala Thr Lys Lys Ala Gly Gln Ala Lys Lys

1070 1075 1080

Lys Lys Gly Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Leu Glu

1085 1090 1095

Asp Ala Leu Asp Asp Phe Asp Leu Asp Met Leu Gly Ser Asp Ala

1100 1105 1110

Leu Asp Asp Phe Asp Leu Asp Met Leu Gly Ser Asp Ala Leu Asp

1115 1120 1125

Asp Phe Asp Leu Asp Met Leu Gly Ser Asp Ala Leu Asp Asp Phe

1130 1135 1140

Asp Leu Asp Met Leu

1145

<210> 105

<211> 21

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

oligonucleótidos sintéticos

<400> 105

tgacctagac agccttacat a 21

<210> 106

<211> 21

<212> DNA

<213> Homo sapiens

<400> 106

taaggctgtc taggtcaagt g 21

<210> 107

<211> 21

<212> DNA

<213> Homo sapiens

<400> 107

aaggctgtct aggtcaagtg t 21

<210> 108

<211> 21

<212> DNA

<213> Homo sapiens

<400> 108

gatgaagccg agaggatact g 21

<210> 109

<211> 21

<212> DNA

<213> Homo sapiens

<400> 109

gctgatttgt attaggtacc a 21

<210> 110

<211> 21

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

oligonucleótidos sintéticos

<400> 110

cttcgttatg taaggctgtc t 21

<210> 111

<211> 21

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

oligonucleótidos sintéticos

<400> 111

caagtgtagg agacacactg c 21

<210> 112

<211> 1052

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 112

Lys Arg Asn Tyr Ile Leu Gly Leu Ala Ile Gly Ile Thr Ser Val Gly
1 5 10 15

Tyr Gly Ile Ile Asp Tyr Glu Thr Arg Asp Val Ile Asp Ala Gly Val
20 25 30

Arg Leu Phe Lys Glu Ala Asn Val Glu Asn Asn Glu Gly Arg Arg Ser
35 40 45

Lys Arg Gly Ala Arg Arg Leu Lys Arg Arg Arg Arg His Arg Ile Gln
50 55 60

Arg Val Lys Lys Leu Leu Phe Asp Tyr Asn Leu Leu Thr Asp His Ser

65 70 75 80

Glu Leu Ser Gly Ile Asn Pro Tyr Glu Ala Arg Val Lys Gly Leu Ser

85 90 95

Gln Lys Leu Ser Glu Glu Glu Phe Ser Ala Ala Leu Leu His Leu Ala

100 105 110

Lys Arg Arg Gly Val His Asn Val Asn Glu Val Glu Glu Asp Thr Gly

115 120 125

Asn Glu Leu Ser Thr Lys Glu Gln Ile Ser Arg Asn Ser Lys Ala Leu

130 135 140

Glu Glu Lys Tyr Val Ala Glu Leu Gln Leu Glu Arg Leu Lys Lys Asp

145 150 155 160

Gly Glu Val Arg Gly Ser Ile Asn Arg Phe Lys Thr Ser Asp Tyr Val

165 170 175

Lys Glu Ala Lys Gln Leu Leu Lys Val Gln Lys Ala Tyr His Gln Leu

180 185 190

Asp Gln Ser Phe Ile Asp Thr Tyr Ile Asp Leu Leu Glu Thr Arg Arg

195 200 205

Thr Tyr Tyr Glu Gly Pro Gly Glu Gly Ser Pro Phe Gly Trp Lys Asp

210 215 220

Ile Lys Glu Trp Tyr Glu Met Leu Met Gly His Cys Thr Tyr Phe Pro

225 230 235 240

Glu Glu Leu Arg Ser Val Lys Tyr Ala Tyr Asn Ala Asp Leu Tyr Asn

245 250 255

Ala Leu Asn Asp Leu Asn Asn Leu Val Ile Thr Arg Asp Glu Asn Glu

260 265 270

Lys Leu Glu Tyr Tyr Glu Lys Phe Gln Ile Ile Glu Asn Val Phe Lys

275 280 285

Gln Lys Lys Lys Pro Thr Leu Lys Gln Ile Ala Lys Glu Ile Leu Val

290 295 300

Asn Glu Glu Asp Ile Lys Gly Tyr Arg Val Thr Ser Thr Gly Lys Pro

305 310 315 320

Glu Phe Thr Asn Leu Lys Val Tyr His Asp Ile Lys Asp Ile Thr Ala

325 330 335

Arg Lys Glu Ile Ile Glu Asn Ala Glu Leu Leu Asp Gln Ile Ala Lys

340 345 350

Ile Leu Thr Ile Tyr Gln Ser Ser Glu Asp Ile Gln Glu Glu Leu Thr

355 360 365

Asn Leu Asn Ser Glu Leu Thr Gln Glu Glu Ile Glu Gln Ile Ser Asn

370 375 380

Leu Lys Gly Tyr Thr Gly Thr His Asn Leu Ser Leu Lys Ala Ile Asn

385 390 395 400

Leu Ile Leu Asp Glu Leu Trp His Thr Asn Asp Asn Gln Ile Ala Ile

405 410 415

Phe Asn Arg Leu Lys Leu Val Pro Lys Lys Val Asp Leu Ser Gln Gln

420 425 430

Lys Glu Ile Pro Thr Thr Leu Val Asp Asp Phe Ile Leu Ser Pro Val

435 440 445

Val Lys Arg Ser Phe Ile Gln Ser Ile Lys Val Ile Asn Ala Ile Ile

450 455 460

Lys Lys Tyr Gly Leu Pro Asn Asp Ile Ile Ile Glu Leu Ala Arg Glu

465 470 475 480

Lys Asn Ser Lys Asp Ala Gln Lys Met Ile Asn Glu Met Gln Lys Arg

485 490 495

Asn Arg Gln Thr Asn Glu Arg Ile Glu Glu Ile Ile Arg Thr Thr Gly

500 505 510

Lys Glu Asn Ala Lys Tyr Leu Ile Glu Lys Ile Lys Leu His Asp Met

515 520 525

Gln Glu Gly Lys Cys Leu Tyr Ser Leu Glu Ala Ile Pro Leu Glu Asp

530 535 540

Leu Leu Asn Asn Pro Phe Asn Tyr Glu Val Asp His Ile Ile Pro Arg

545 550 555 560

Ser Val Ser Phe Asp Asn Ser Phe Asn Asn Lys Val Leu Val Lys Gln

565 570 575

Glu Glu Ala Ser Lys Lys Gly Asn Arg Thr Pro Phe Gln Tyr Leu Ser

580 585 590

Ser Ser Asp Ser Lys Ile Ser Tyr Glu Thr Phe Lys Lys His Ile Leu

595 600 605

Asn Leu Ala Lys Gly Lys Gly Arg Ile Ser Lys Thr Lys Lys Glu Tyr

610 615 620

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

625 630 635 640

Ile Asn Arg Asn Leu Val Asp Thr Arg Tyr Ala Thr Arg Gly Leu Met

645 650 655

Asn Leu Leu Arg Ser Tyr Phe Arg Val Asn Asn Leu Asp Val Lys Val

660 665 670

Lys Ser Ile Asn Gly Gly Phe Thr Ser Phe Leu Arg Arg Lys Trp Lys

675 680 685

Phe Lys Lys Glu Arg Asn Lys Gly Tyr Lys His His Ala Glu Asp Ala

690 695 700

Leu Ile Ile Ala Asn Ala Asp Phe Ile Phe Lys Glu Trp Lys Lys Leu

705 710 715 720

Asp Lys Ala Lys Lys Val Met Glu Asn Gln Met Phe Glu Glu Lys Gln

725 730 735

Ala Glu Ser Met Pro Glu Ile Glu Thr Glu Gln Glu Tyr Lys Glu Ile

740 745 750

Phe Ile Thr Pro His Gln Ile Lys His Ile Lys Asp Phe Lys Asp Tyr

755 760 765

Lys Tyr Ser His Arg Val Asp Lys Lys Pro Asn Arg Glu Leu Ile Asn

770 775 780

Asp Thr Leu Tyr Ser Thr Arg Lys Asp Asp Lys Gly Asn Thr Leu Ile

785 790 795 800

Val Asn Asn Leu Asn Gly Leu Tyr Asp Lys Asp Asn Asp Lys Leu Lys

805 810 815

Lys Leu Ile Asn Lys Ser Pro Glu Lys Leu Leu Met Tyr His His Asp

820 825 830

Pro Gln Thr Tyr Gln Lys Leu Lys Leu Ile Met Glu Gln Tyr Gly Asp

835 840 845

Glu Lys Asn Pro Leu Tyr Lys Tyr Tyr Glu Glu Thr Gly Asn Tyr Leu

850 855 860

Thr Lys Tyr Ser Lys Lys Asp Asn Gly Pro Val Ile Lys Lys Ile Lys

865 870 875 880

Tyr Tyr Gly Asn Lys Leu Asn Ala His Leu Asp Ile Thr Asp Asp Tyr

885 890 895

Pro Asn Ser Arg Asn Lys Val Val Lys Leu Ser Leu Lys Pro Tyr Arg

900 905 910

Phe Asp Val Tyr Leu Asp Asn Gly Val Tyr Lys Phe Val Thr Val Lys

915 920 925

Asn Leu Asp Val Ile Lys Lys Glu Asn Tyr Tyr Glu Val Asn Ser Lys

930 935 940

Cys Tyr Glu Glu Ala Lys Lys Leu Lys Lys Ile Ser Asn Gln Ala Glu

945 950 955 960

Phe Ile Ala Ser Phe Tyr Asn Asn Asp Leu Ile Lys Ile Asn Gly Glu

965 970 975

Leu Tyr Arg Val Ile Gly Val Asn Asn Asp Leu Leu Asn Arg Ile Glu

980 985 990

Val Asn Met Ile Asp Ile Thr Tyr Arg Glu Tyr Leu Glu Asn Met Asn

995 1000 1005

Asp Lys Arg Pro Pro Arg Ile Ile Lys Thr Ile Ala Ser Lys Thr

1010 1015 1020

Gln Ser Ile Lys Lys Tyr Ser Thr Asp Ile Leu Gly Asn Leu Tyr

1025 1030 1035

Glu Val Lys Ser Lys Lys His Pro Gln Ile Ile Lys Lys Gly

1040 1045 1050

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<213> Homo sapiens

<400> 113

catgatccct agaaatgggg t 21

<210> 114

<211> 523

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 114

Asp Ala Leu Asp Asp Phe Asp Leu Asp Met Leu Gly Ser Asp Ala Leu

1 5 10 15

Asp Asp Phe Asp Leu Asp Met Leu Gly Ser Asp Ala Leu Asp Asp Phe

20 25 30

Asp Leu Asp Met Leu Gly Ser Asp Ala Leu Asp Asp Phe Asp Leu Asp

35 40 45

Met Leu Ile Asn Ser Arg Ser Ser Gly Ser Pro Lys Lys Lys Arg Lys

50 55 60

Val Gly Ser Gln Tyr Leu Pro Asp Thr Asp Asp Arg His Arg Ile Glu

65 70 75 80

Glu Lys Arg Lys Arg Thr Tyr Glu Thr Phe Lys Ser Ile Met Lys Lys

85 90 95

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

100 105 110

Ala Val Pro Ser Arg Ser Ser Ala Ser Val Pro Lys Pro Ala Pro Gln

115 120 125

Pro Tyr Pro Phe Thr Ser Ser Leu Ser Thr Ile Asn Tyr Asp Glu Phe

130 135 140

Pro Thr Met Val Phe Pro Ser Gly Gln Ile Ser Gln Ala Ser Ala Leu

145 150 155 160

Ala Pro Ala Pro Pro Gln Val Leu Pro Gln Ala Pro Ala Pro Ala Pro

165 170 175

Ala Pro Ala Met Val Ser Ala Leu Ala Gln Ala Pro Ala Pro Val Pro
180 185 190

Val Leu Ala Pro Gly Pro Pro Gln Ala Val Ala Pro Pro Ala Pro Lys
195 200 205

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

Gln Phe Asp Asp Glu Asp Leu Gly Ala Leu Leu Gly Asn Ser Thr Asp
225 230 235 240

Pro Ala Val Phe Thr Asp Leu Ala Ser Val Asp Asn Ser Glu Phe Gln
245 250 255

Gln Leu Leu Asn Gln Gly Ile Pro Val Ala Pro His Thr Thr Glu Pro
260 265 270

Met Leu Met Glu Tyr Pro Glu Ala Ile Thr Arg Leu Val Thr Gly Ala
275 280 285

Gln Arg Pro Pro Asp Pro Ala Pro Ala Pro Leu Gly Ala Pro Gly Leu

290 295 300

Pro Asn Gly Leu Leu Ser Gly Asp Glu Asp Phe Ser Ser Ile Ala Asp

305 310 315 320

Met Asp Phe Ser Ala Leu Leu Gly Ser Gly Ser Gly Ser Arg Asp Ser

325 330 335

Arg Glu Gly Met Phe Leu Pro Lys Pro Glu Ala Gly Ser Ala Ile Ser

340 345 350

Asp Val Phe Glu Gly Arg Glu Val Cys Gln Pro Lys Arg Ile Arg Pro

355 360 365

Phe His Pro Pro Gly Ser Pro Trp Ala Asn Arg Pro Leu Pro Ala Ser

370 375 380

Leu Ala Pro Thr Pro Thr Gly Pro Val His Glu Pro Val Gly Ser Leu

385 390 395 400

Thr Pro Ala Pro Val Pro Gln Pro Leu Asp Pro Ala Pro Ala Val Thr

405 410 415

Pro Glu Ala Ser His Leu Leu Glu Asp Pro Asp Glu Glu Thr Ser Gln

420 425 430

Ala Val Lys Ala Leu Arg Glu Met Ala Asp Thr Val Ile Pro Gln Lys

435 440 445

Glu Glu Ala Ala Ile Cys Gly Gln Met Asp Leu Ser His Pro Pro Pro

450 455 460

Arg Gly His Leu Asp Glu Leu Thr Thr Thr Leu Glu Ser Met Thr Glu

465 470 475 480

Asp Leu Asn Leu Asp Ser Pro Leu Thr Pro Glu Leu Asn Glu Ile Leu

485 490 495

Asp Thr Phe Leu Asn Asp Glu Cys Leu Leu His Ala Met His Ile Ser

500 505 510

Thr Gly Leu Ser Ile Phe Asp Thr Ser Leu Phe

515 520

<210> 115

<211> 7

<212> PRT

<213> Secuencia Artificial

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<223> Descripción de secuencia artificial:

péptido

<400> 115

Arg Ser Asp Asn Leu Val Arg

1 5

<210> 116

<211> 7

<212> PRT

<213> Secuencia Artificial

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<223> Descripción de secuencia artificial:

péptido

<400> 116

Arg Glu Asp Asn Leu His Thr

1 5

<210> 117

<211> 7

<212> PRT

<213> Secuencia Artificial

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<223> Descripción de secuencia artificial:

péptido

<400> 117

Arg Ser Asp Glu Leu Val Arg

1 5

<210> 118

<211> 7

<212> PRT

<213> Secuencia Artificial

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<223> Descripción de secuencia artificial:

péptido

<400> 118

Gln Ser Gly Asn Leu Thr Glu

1 5

<210> 119

<211> 7

<212> PRT

<213> Secuencia Artificial

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<223> Descripción de secuencia artificial:

péptido

<400> 119

Thr Ser Gly His Leu Val Arg

1 5

<210> 120

<211> 7

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

péptido sintético

<400> 120

Gln Asn Ser Thr Leu Thr Glu

1 5

<210> 121

<211> 7

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

péptido sintético

<400> 121

Asp Pro Gly Ala Leu Val Arg

1 5

<210> 122

<211> 7

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

péptido sintético

<400> 122

His Arg Thr Thr Leu Thr Asn

1 5

<210> 123

<211> 7

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

péptido sintético

<400> 123

Gln Ser Gly Asp Leu Arg Arg

1 5

<210> 124

<211> 7

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

péptido sintético

<400> 124

Thr Ser His Ser Leu Thr Glu

1 5

<210> 125

<211> 7

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

péptido sintético

<400> 125

Thr His Leu Asp Leu Ile Arg

1 5

<210> 126

<211> 7

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

péptido sintético

<400> 126

Gln Ser Ser Ser Leu Val Arg

1 5

<210> 127

<211> 7

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

péptido sintético

<400> 127

Thr Ser Gly Asn Leu Val Arg

1 5

<210> 128

<211> 7

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

péptido sintético

<400> 128

Arg Arg Asp Glu Leu Asn Val

1 5

<210> 129

<211> 7

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

péptido sintético

<400> 129

Arg Ser Asp Asp Leu Val Arg

1 5

<210> 130

<211> 7

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

péptido sintético

<400> 130

Arg Ser Asp His Leu Thr Asn

1 5

<210> 131

<211> 176

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 131

Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

1 5 10 15

Phe Ser Arg Ser Asp Asn Leu Val Arg His Gln Arg Thr His Thr Gly

20 25 30

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Glu

35 40 45

Asp Asn Leu His Thr His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr

50 55 60

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Ser Asp Glu Leu Val

65 70 75 80

Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu

85 90 95

Cys Gly Lys Ser Phe Ser Gln Ser Gly Asn Leu Thr Glu His Gln Arg

100 105 110

Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

115 120 125

Phe Ser Thr Ser Gly His Leu Val Arg His Gln Arg Thr His Thr Gly

130 135 140

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Asn

145 150 155 160

Ser Thr Leu Thr Glu His Gln Arg Thr His Thr Gly Lys Lys Thr Ser

165 170 175

<210> 132

<211> 176

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 132

Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser
1 5 10 15

Phe Ser Arg Ser Asp Asn Leu Val Arg His Gln Arg Thr His Thr Gly
20 25 30

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser His Arg
35 40 45

Thr Thr Leu Thr Asn His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr
50 55 60

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Glu Asp Asn Leu His
65 70 75 80

Thr His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu
85 90 95

Cys Gly Lys Ser Phe Ser Thr Ser His Ser Leu Thr Glu His Gln Arg

100 105 110

Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

115 120 125

Phe Ser Gln Ser Ser Ser Leu Val Arg His Gln Arg Thr His Thr Gly

130 135 140

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Glu

145 150 155 160

Asp Asn Leu His Thr His Gln Arg Thr His Thr Gly Lys Lys Thr Ser

165 170 175

<210> 133

<211> 176

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 133

Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

1 5 10 15

Phe Ser Asp Pro Gly Ala Leu Val Arg His Gln Arg Thr His Thr Gly
20 25 30

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Ser
35 40 45

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

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Ser Gly Asp Leu Arg
65 70 75 80

Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu
85 90 95

Cys Gly Lys Ser Phe Ser Thr His Leu Asp Leu Ile Arg His Gln Arg
100 105 110

Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser
115 120 125

Phe Ser Thr Ser Gly Asn Leu Val Arg His Gln Arg Thr His Thr Gly

130 135 140

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Ser

145 150 155 160

Asp Asn Leu Val Arg His Gln Arg Thr His Thr Gly Lys Lys Thr Ser

165 170 175

<210> 134

<211> 260

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 134

Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

1 5 10 15

Phe Ser Arg Arg Asp Glu Leu Asn Val His Gln Arg Thr His Thr Gly

20 25 30

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Ser

35 40 45

Asp His Leu Thr Asn His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr
50 55 60

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Ser Asp Asp Leu Val
65 70 75 80

Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu
85 90 95

Cys Gly Lys Ser Phe Ser Arg Ser Asp Asn Leu Val Arg His Gln Arg
100 105 110

Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser
115 120 125

Phe Ser His Arg Thr Thr Leu Thr Asn His Gln Arg Thr His Thr Gly
130 135 140

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Glu
145 150 155 160

Asp Asn Leu His Thr His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr

165 170 175

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Thr Ser His Ser Leu Thr

180 185 190

Glu His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu

195 200 205

Cys Gly Lys Ser Phe Ser Gln Ser Ser Ser Leu Val Arg His Gln Arg

210 215 220

Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

225 230 235 240

Phe Ser Arg Glu Asp Asn Leu His Thr His Gln Arg Thr His Thr Gly

245 250 255

Lys Lys Thr Ser

260

<210> 135

<211> 292

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<220>

<221> MOD_RES

<222> (8)..(57)

<223> Cualquier amino ácido

<220>

<221> MISC_FEATURE

<222> (8)..(57)

<223> Esta región puede abarcar 1-50 residuos

<220>

<221> MOD_RES

<222> (65)..(114)

<223> Cualquier amino ácido

<220>

<221> MISC_FEATURE

<222> (65)..(114)

<223> Esta región puede abarcar 1-50 residuos

<220>

<221> MOD_RES

<222> (122)..(171)

<223> Cualquier amino ácido

<220>

<221> MISC_FEATURE

<222> (122)..(171)

<223> Esta región puede abarcar 1-50 residuos

<220>

<221> MOD_RES

<222> (179)..(228)

<223> Cualquier amino ácido

<220>

<221> MISC_FEATURE

<222> (179)..(228)

<223> Esta región puede abarcar 1-50 residuos

<220>

<221> MOD_RES

<222> (236)..(285)

<223> Cualquier amino ácido

<220>

<221> MISC_FEATURE

<222> (236)..(285)

<223> Esta región puede abarcar 1-50 residuos

<400> 135

Arg Ser Asp Asn Leu Val Arg Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Arg Glu Asp Asn Leu His Thr

50 55 60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

65 70 75 80

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

85 90 95

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

100 105 110

Xaa Xaa Arg Ser Asp Glu Leu Val Arg Xaa Xaa Xaa Xaa Xaa Xaa Xaa

115 120 125

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

130 135 140

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

145 150 155 160

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Gln Ser Gly Asn Leu

165 170 175

Thr Glu Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

180 185 190

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

195 200 205

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

210 215 220

Xaa Xaa Xaa Xaa Thr Ser Gly His Leu Val Arg Xaa Xaa Xaa Xaa Xaa

225 230 235 240

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

245 250 255

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

260 265 270

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Gln Asn Ser

275 280 285

Thr Leu Thr Glu

290

<210> 136

<211> 18

<212> DNA

<213> Homo sapiens

<400> 136

gaggatactg cagaggtc 18

<210> 137

<400> 137

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<210> 138

<400> 138

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<210> 139

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<210> 141

<211> 7

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

péptido sintético

<400> 141

Arg Asn Asp Thr Leu Thr Glu

1 5

<210> 142

<211> 7

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

péptido sintético

<400> 142

Arg Ser Asp Asn Leu Val Arg

1 5

<210> 143

<211> 7

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

péptido sintético

<400> 143

Arg Ser Asp His Leu Thr Thr

1 5

<210> 144

<211> 7

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

péptido sintético

<400> 144

Ser Pro Ala Asp Leu Thr Arg

1 5

<210> 145

<211> 7

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

péptido sintético

<400> 145

Thr Ser His Ser Leu Thr Glu

1 5

<210> 146

<211> 7

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

péptido sintético

<400> 146

Gln Ser Gly Asp Leu Arg Arg

1 5

<210> 147

<211> 7

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

péptido sintético

<400> 147

Asp Pro Gly Ala Leu Val Arg

1 5

<210> 148

<211> 7

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

péptido sintético

<400> 148

Asp Pro Gly His Leu Val Arg

1 5

<210> 149

<211> 7

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

péptido sintético

<400> 149

Arg Ser Asp Glu Leu Val Arg

1 5

<210> 150

<211> 7

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

péptido sintético

<400> 150

Asp Ser Gly Asn Leu Arg Val

1 5

<210> 151

<211> 7

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

péptido sintético

<400> 151

His Lys Asn Ala Leu Gln Asn

1 5

<210> 152

<211> 7

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

péptido sintético

<400> 152

Thr Ser Gly Glu Leu Val Arg

1 5

<210> 153

<211> 7

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

péptido sintético

<400> 153

Arg Ser Asp Lys Leu Val Arg

1 5

<210> 154

<211> 7

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

péptido sintético

<400> 154

Gln Leu Ala His Leu Arg Ala

1 5

<210> 155

<211> 7

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

péptido sintético

<400> 155

Glu Arg Ser His Leu Arg Glu

1 5

<210> 156

<211> 7

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

péptido sintético

<400> 156

Thr Thr Gly Asn Leu Thr Val

1 5

<210> 157

<211> 7

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

péptido sintético

<400> 157

Gln Arg Ala Asn Leu Arg Ala

1 5

<210> 158

<211> 7

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

péptido sintético

<400> 158

Ser Lys Lys Ala Leu Thr Glu

1 5

<210> 159

<211> 7

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

péptido sintético

<400> 159

Arg Glu Asp Asn Leu His Thr

1 5

<210> 160

<211> 7

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

péptido sintético

<400> 160

Thr Lys Asn Ser Leu Thr Glu

1 5

<210> 161

<211> 7

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

péptido

<400> 161

Arg Lys Asp Asn Leu Lys Asn

1 5

<210> 162

<211> 7

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

péptido sintético

<400> 162

Gln Ser Ser Asn Leu Val Arg

1 5

<210> 163

<211> 7

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

péptido sintético

<400> 163

Gln Ser Ser Ser Leu Val Arg

1 5

<210> 164

<211> 7

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

péptido sintético

<400> 164

Gln Ala Gly His Leu Ala Ser

1 5

<210> 165

<211> 176

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 165

Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

1 5 10 15

Phe Ser Arg Asn Asp Thr Leu Thr Glu His Gln Arg Thr His Thr Gly

20 25 30

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Asp Pro

35 40 45

Gly Ala Leu Val Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr

50 55 60

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Thr Ser Gly Glu Leu Val

65 70 75 80

Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu

85 90 95

Cys Gly Lys Ser Phe Ser Arg Ser Asp Asn Leu Val Arg His Gln Arg

100 105 110

Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

115 120 125

Phe Ser Thr Ser Gly Glu Leu Val Arg His Gln Arg Thr His Thr Gly

130 135 140

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Thr Lys

145 150 155 160

Asn Ser Leu Thr Glu His Gln Arg Thr His Thr Gly Lys Lys Thr Ser

165 170 175

<210> 166

<211> 176

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 166

Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

1 5 10 15

Phe Ser Arg Ser Asp Asn Leu Val Arg His Gln Arg Thr His Thr Gly

20 25 30

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Asp Pro

35 40 45

Gly His Leu Val Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr

50 55 60

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Ser Asp His Leu Thr

65 70 75 80

Thr His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu

85 90 95

Cys Gly Lys Ser Phe Ser Arg Ser Asp Glu Leu Val Arg His Gln Arg

100 105 110

Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

115 120 125

Phe Ser Arg Ser Asp Lys Leu Val Arg His Gln Arg Thr His Thr Gly

130 135 140

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Thr Thr

145 150 155 160

Gly Asn Leu Thr Val His Gln Arg Thr His Thr Gly Lys Lys Thr Ser

165 170 175

<210> 167

<211> 176

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 167

Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

1 5 10 15

Phe Ser Arg Ser Asp His Leu Thr Thr His Gln Arg Thr His Thr Gly

20 25 30

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Ser

35 40 45

Asp Glu Leu Val Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr

50 55 60

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Ser Asp Lys Leu Val

65 70 75 80

Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu

85 90 95

Cys Gly Lys Ser Phe Ser Thr Thr Gly Asn Leu Thr Val His Gln Arg

100 105 110

Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

115 120 125

Phe Ser Gln Leu Ala His Leu Arg Ala His Gln Arg Thr His Thr Gly

130 135 140

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Thr Lys

145 150 155 160

Asn Ser Leu Thr Glu His Gln Arg Thr His Thr Gly Lys Lys Thr Ser

165 170 175

<210> 168

<211> 176

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 168

Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

1 5 10 15

Phe Ser Ser Pro Ala Asp Leu Thr Arg His Gln Arg Thr His Thr Gly

20 25 30

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Asp Ser

35 40 45

Gly Asn Leu Arg Val His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr

50 55 60

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Leu Ala His Leu Arg

65 70 75 80

Ala His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu

85 90 95

Cys Gly Lys Ser Phe Ser Gln Arg Ala Asn Leu Arg Ala His Gln Arg

100 105 110

Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

115 120 125

Phe Ser Arg Glu Asp Asn Leu His Thr His Gln Arg Thr His Thr Gly

130 135 140

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Ser

145 150 155 160

Asp Asn Leu Val Arg His Gln Arg Thr His Thr Gly Lys Lys Thr Ser

165 170 175

<210> 169

<211> 260

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 169

Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

1 5 10 15

Phe Ser Thr Ser His Ser Leu Thr Glu His Gln Arg Thr His Thr Gly

20 25 30

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser His Lys

35 40 45

Asn Ala Leu Gln Asn His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr

50 55 60

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Glu Arg Ser His Leu Arg

65 70 75 80

Glu His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu

85 90 95

Cys Gly Lys Ser Phe Ser Ser Lys Lys Ala Leu Thr Glu His Gln Arg

100 105 110

Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

115 120 125

Phe Ser Gln Arg Ala Asn Leu Arg Ala His Gln Arg Thr His Thr Gly

130 135 140

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Lys

145 150 155 160

Asp Asn Leu Lys Asn His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr

165 170 175

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Ser Ser Asn Leu Val

180 185 190

Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu

195 200 205

Cys Gly Lys Ser Phe Ser Gln Ser Ser Ser Leu Val Arg His Gln Arg

210 215 220

Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

225 230 235 240

Phe Ser Gln Ala Gly His Leu Ala Ser His Gln Arg Thr His Thr Gly

245 250 255

Lys Lys Thr Ser

260

<210> 170

<211> 204

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 170

Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

1 5 10 15

Phe Ser Gln Ser Gly Asp Leu Arg Arg His Gln Arg Thr His Thr Gly

20 25 30

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Ser Pro

35 40 45

Ala Asp Leu Thr Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr

50 55 60

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Asp Ser Gly Asn Leu Arg

65 70 75 80

Val His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu

85 90 95

Cys Gly Lys Ser Phe Ser Gln Leu Ala His Leu Arg Ala His Gln Arg

100 105 110

Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

115 120 125

Phe Ser Gln Arg Ala Asn Leu Arg Ala His Gln Arg Thr His Thr Gly

130 135 140

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Glu

145 150 155 160

Asp Asn Leu His Thr His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr

165 170 175

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Ser Asp Asn Leu Val

180 185 190

Arg His Gln Arg Thr His Thr Gly Lys Lys Thr Ser

195 200

<210> 171

<211> 292

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<220>

<221> MOD_RES

<222> (8)..(57)

<223> Cualquier amino ácido

<220>

<221> MISC_FEATURE

<222> (8)..(57)

<223> Esta región puede abarcar 1-50 residuos

<220>

<221> MOD_RES

<222> (65)..(114)

<223> Cualquier amino ácido

<220>

<221> MISC_FEATURE

<222> (65)..(114)

<223> Esta región puede abarcar 1-50 residuos

<220>

<221> MOD_RES

<222> (122)..(171)

<223> Cualquier amino ácido

<220>

<221> MISC_FEATURE

<222> (122)..(171)

<223> Esta región puede abarcar 1-50 residuos

<220>

<221> MOD_RES

<222> (179)..(228)

<223> Cualquier amino ácido

<220>

<221> MISC_FEATURE

<222> (179)..(228)

<223> Esta región puede abarcar 1-50 residuos

<220>

<221> MOD_RES

<222> (236)..(285)

<223> Cualquier amino ácido

<220>

<221> MISC_FEATURE

<222> (236)..(285)

<223> Esta región puede abarcar 1-50 residuos

<400> 171

Arg Asn Asp Thr Leu Thr Glu Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Asp Pro Gly Ala Leu Val Arg

50 55 60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

65 70 75 80

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

85 90 95

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

100 105 110

Xaa Xaa Thr Ser Gly Glu Leu Val Arg Xaa Xaa Xaa Xaa Xaa Xaa Xaa

115 120 125

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

130 135 140

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

145 150 155 160

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Arg Ser Asp Asn Leu

165 170 175

Val Arg Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

180 185 190

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

195 200 205

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

210 215 220

Xaa Xaa Xaa Xaa Thr Ser Gly Glu Leu Val Arg Xaa Xaa Xaa Xaa Xaa

225 230 235 240

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

245 250 255

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

260 265 270

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Thr Lys Asn

275 280 285

Ser Leu Thr Glu

290

<210> 172

<400> 172

000

<210> 173

<400> 173

000

<210> 174

<400> 174

000

<210> 175

<400> 175

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<210> 176

<400> 176

000

<210> 177

<400> 177
000

<210> 178
<211> 49
<212> DNA
<213> Secuencia Artificial

<220>
<223> Descripción de secuencia artificial:
oligonucleótidos sintéticos

<400> 178
gtgtgtatgc tcaggggctg ggaaaggagg ggagggagct ccggctcag 49

<210> 179
<211> 1644
<212> DNA
<213> Secuencia Artificial

<220>
<223> Descripción de secuencia artificial:
poli nucleótido

<400> 179

cgttacataa cttacggtaa atggcccgcc tggctgaccg cccaacgacc cccgcccatt 60

gacgtcaata atgacgtatg ttcccatagt aacgccaata gggactttcc attgacgtca 120

atgggtggag tatttacggt aaactgccca cttggcagta catcaagtgt atcatatgcc 180

aagtacgccc cctattgacg tcaatgacgg taaatggccc gcctggcatt atgcccagta 240

catgacctta tgggactttc ctacttggca gtacatctac gtattagtca tcgctattac 300

catgggtcga ggtgagcccc acgttctgct tcactctccc catctccccc ccctccccac 360

ccccaatttt gtatttattt atttttaat tattttgtgc agcgatgggg gcgggggggg 420

gggggcgcg cgccaggcgg ggcggggcgg ggcgaggggc ggggcggggc gaggcggaga 480

ggtgcggcgg cagccaatca gagcggcgcg ctccgaaagt ttccttttat ggcgaggcgg 540

cggcggcggc ggccctataa aaagcgaagc gcgcggcggg cgggagtcgc tgcgttgcct 600

tcgccccgtg ccccgctccg cgccgcctcg cgccgcccgc cccggctctg actgaccgcg 660

ttactcccac aggtgagcgg gcgggacggc ccttctcctc cgggctgtaa ttagcgcttg 720

gtttaatgac ggctcgtttc ttttctgtgg ctgcgtgaaa gccttaaagg gctccgggag 780

ggcccttttgt gcgggggggga gcggctcggg gggtgcgtgc gtgtgtgtgt gcgtggggag 840

cgccgcgtgc ggcccgcgct gcccggcggc tgtgagcgct gcgggcgcgg cgcggggctt 900

tgtgcgctcc gcgtgtgcgc gaggggagcg cggccggggg cggtgccccg cggtgcgggg 960

gggctgcgag gggaacaaag gctgcgtgcg gggtgtgtgc gtgggggggt gagcaggggg 1020

tgtgggcgcg gcggtcgggc tgtaaccccc ccctgcaccc ccctccccga gttgctgagc 1080

acggcccggc ttcgggtgcg gggctccgtg cggggcgtgg cgcggggctc gccgtgccgg 1140

gcgggggggtg gcggcaggtg ggggtgccgg gcggggcggg gccgcctcgg gccggggagg 1200

gctcgggggga ggggcgcggc ggccccggag cgccggcggc tgtcgaggcg cggcgagccg 1260

cagccattgc cttttatggt aatcgtgcga gagggcgcag ggacttcctt tgtcccaaat 1320

ctggcggagc cgaaatctgg gaggcgccgc cgcacccccct ctagcgggcg cgggcgaagc 1380

ggtgcggcgc cggcaggaag gaaatgggcg gggagggcct tcgtgcgtcg ccgcgccgcc 1440

gtccccttct ccatctccag cctcggggct gccgcagggg gacggctgcc ttcgggggggg 1500

acggggcagg gcggggttcg gcttctggcg tgtgaccggc ggctctagag cctctgctaa 1560

ccatgttcat gccttcttct ttttcctaca gctcctgggc aacgtgctgg ttgttgtgct 1620

gtctcatcat tttggcaaag aatt 1644

<210> 180

<211> 2009

<212> PRT

<213> Homo sapiens

<400> 180

Met Glu Gln Thr Val Leu Val Pro Pro Gly Pro Asp Ser Phe Asn Phe
1 5 10 15

Phe Thr Arg Glu Ser Leu Ala Ala Ile Glu Arg Arg Ile Ala Glu Glu
20 25 30

Lys Ala Lys Asn Pro Lys Pro Asp Lys Lys Asp Asp Asp Glu Asn Gly
35 40 45

Pro Lys Pro Asn Ser Asp Leu Glu Ala Gly Lys Asn Leu Pro Phe Ile
50 55 60

Tyr Gly Asp Ile Pro Pro Glu Met Val Ser Glu Pro Leu Glu Asp Leu
65 70 75 80

Asp Pro Tyr Tyr Ile Asn Lys Lys Thr Phe Ile Val Leu Asn Lys Gly
85 90 95

Lys Ala Ile Phe Arg Phe Ser Ala Thr Ser Ala Leu Tyr Ile Leu Thr
100 105 110

Pro Phe Asn Pro Leu Arg Lys Ile Ala Ile Lys Ile Leu Val His Ser

115 120 125

Leu Phe Ser Met Leu Ile Met Cys Thr Ile Leu Thr Asn Cys Val Phe

130 135 140

Met Thr Met Ser Asn Pro Pro Asp Trp Thr Lys Asn Val Glu Tyr Thr

145 150 155 160

Phe Thr Gly Ile Tyr Thr Phe Glu Ser Leu Ile Lys Ile Ile Ala Arg

165 170 175

Gly Phe Cys Leu Glu Asp Phe Thr Phe Leu Arg Asp Pro Trp Asn Trp

180 185 190

Leu Asp Phe Thr Val Ile Thr Phe Ala Tyr Val Thr Glu Phe Val Asp

195 200 205

Leu Gly Asn Val Ser Ala Leu Arg Thr Phe Arg Val Leu Arg Ala Leu

210 215 220

Lys Thr Ile Ser Val Ile Pro Gly Leu Lys Thr Ile Val Gly Ala Leu

225 230 235 240

Ile Gln Ser Val Lys Lys Leu Ser Asp Val Met Ile Leu Thr Val Phe

245 250 255

Cys Leu Ser Val Phe Ala Leu Ile Gly Leu Gln Leu Phe Met Gly Asn

260 265 270

Leu Arg Asn Lys Cys Ile Gln Trp Pro Pro Thr Asn Ala Ser Leu Glu

275 280 285

Glu His Ser Ile Glu Lys Asn Ile Thr Val Asn Tyr Asn Gly Thr Leu

290 295 300

Ile Asn Glu Thr Val Phe Glu Phe Asp Trp Lys Ser Tyr Ile Gln Asp

305 310 315 320

Ser Arg Tyr His Tyr Phe Leu Glu Gly Phe Leu Asp Ala Leu Leu Cys

325 330 335

Gly Asn Ser Ser Asp Ala Gly Gln Cys Pro Glu Gly Tyr Met Cys Val

340 345 350

Lys Ala Gly Arg Asn Pro Asn Tyr Gly Tyr Thr Ser Phe Asp Thr Phe

355 360 365

Ser Trp Ala Phe Leu Ser Leu Phe Arg Leu Met Thr Gln Asp Phe Trp

370 375 380

Glu Asn Leu Tyr Gln Leu Thr Leu Arg Ala Ala Gly Lys Thr Tyr Met

385 390 395 400

Ile Phe Phe Val Leu Val Ile Phe Leu Gly Ser Phe Tyr Leu Ile Asn

405 410 415

Leu Ile Leu Ala Val Val Ala Met Ala Tyr Glu Glu Gln Asn Gln Ala

420 425 430

Thr Leu Glu Glu Ala Glu Gln Lys Glu Ala Glu Phe Gln Gln Met Ile

435 440 445

Glu Gln Leu Lys Lys Gln Gln Glu Ala Ala Gln Gln Ala Ala Thr Ala

450 455 460

Thr Ala Ser Glu His Ser Arg Glu Pro Ser Ala Ala Gly Arg Leu Ser

465 470 475 480

Asp Ser Ser Ser Glu Ala Ser Lys Leu Ser Ser Lys Ser Ala Lys Glu

485 490 495

Arg Arg Asn Arg Arg Lys Lys Arg Lys Gln Lys Glu Gln Ser Gly Gly

500 505 510

Glu Glu Lys Asp Glu Asp Glu Phe Gln Lys Ser Glu Ser Glu Asp Ser

515 520 525

Ile Arg Arg Lys Gly Phe Arg Phe Ser Ile Glu Gly Asn Arg Leu Thr

530 535 540

Tyr Glu Lys Arg Tyr Ser Ser Pro His Gln Ser Leu Leu Ser Ile Arg

545 550 555 560

Gly Ser Leu Phe Ser Pro Arg Arg Asn Ser Arg Thr Ser Leu Phe Ser

565 570 575

Phe Arg Gly Arg Ala Lys Asp Val Gly Ser Glu Asn Asp Phe Ala Asp

580 585 590

Asp Glu His Ser Thr Phe Glu Asp Asn Glu Ser Arg Arg Asp Ser Leu

595 600 605

Phe Val Pro Arg Arg His Gly Glu Arg Arg Asn Ser Asn Leu Ser Gln

610 615 620

Thr Ser Arg Ser Ser Arg Met Leu Ala Val Phe Pro Ala Asn Gly Lys
625 630 635 640

Met His Ser Thr Val Asp Cys Asn Gly Val Val Ser Leu Val Gly Gly
645 650 655

Pro Ser Val Pro Thr Ser Pro Val Gly Gln Leu Leu Pro Glu Val Ile
660 665 670

Ile Asp Lys Pro Ala Thr Asp Asp Asn Gly Thr Thr Thr Glu Thr Glu
675 680 685

Met Arg Lys Arg Arg Ser Ser Ser Phe His Val Ser Met Asp Phe Leu
690 695 700

Glu Asp Pro Ser Gln Arg Gln Arg Ala Met Ser Ile Ala Ser Ile Leu
705 710 715 720

Thr Asn Thr Val Glu Glu Leu Glu Glu Ser Arg Gln Lys Cys Pro Pro
725 730 735

Cys Trp Tyr Lys Phe Ser Asn Ile Phe Leu Ile Trp Asp Cys Ser Pro

740 745 750

Tyr Trp Leu Lys Val Lys His Val Val Asn Leu Val Val Met Asp Pro

755 760 765

Phe Val Asp Leu Ala Ile Thr Ile Cys Ile Val Leu Asn Thr Leu Phe

770 775 780

Met Ala Met Glu His Tyr Pro Met Thr Asp His Phe Asn Asn Val Leu

785 790 795 800

Thr Val Gly Asn Leu Val Phe Thr Gly Ile Phe Thr Ala Glu Met Phe

805 810 815

Leu Lys Ile Ile Ala Met Asp Pro Tyr Tyr Tyr Phe Gln Glu Gly Trp

820 825 830

Asn Ile Phe Asp Gly Phe Ile Val Thr Leu Ser Leu Val Glu Leu Gly

835 840 845

Leu Ala Asn Val Glu Gly Leu Ser Val Leu Arg Ser Phe Arg Leu Leu

850 855 860

Arg Val Phe Lys Leu Ala Lys Ser Trp Pro Thr Leu Asn Met Leu Ile

865 870 875 880

Lys Ile Ile Gly Asn Ser Val Gly Ala Leu Gly Asn Leu Thr Leu Val

885 890 895

Leu Ala Ile Ile Val Phe Ile Phe Ala Val Val Gly Met Gln Leu Phe

900 905 910

Gly Lys Ser Tyr Lys Asp Cys Val Cys Lys Ile Ala Ser Asp Cys Gln

915 920 925

Leu Pro Arg Trp His Met Asn Asp Phe Phe His Ser Phe Leu Ile Val

930 935 940

Phe Arg Val Leu Cys Gly Glu Trp Ile Glu Thr Met Trp Asp Cys Met

945 950 955 960

Glu Val Ala Gly Gln Ala Met Cys Leu Thr Val Phe Met Met Val Met

965 970 975

Val Ile Gly Asn Leu Val Val Leu Asn Leu Phe Leu Ala Leu Leu Leu

980 985 990

Ser Ser Phe Ser Ala Asp Asn Leu Ala Ala Thr Asp Asp Asp Asn Glu

995 1000 1005

Met Asn Asn Leu Gln Ile Ala Val Asp Arg Met His Lys Gly Val

1010 1015 1020

Ala Tyr Val Lys Arg Lys Ile Tyr Glu Phe Ile Gln Gln Ser Phe

1025 1030 1035

Ile Arg Lys Gln Lys Ile Leu Asp Glu Ile Lys Pro Leu Asp Asp

1040 1045 1050

Leu Asn Asn Lys Lys Asp Ser Cys Met Ser Asn His Thr Ala Glu

1055 1060 1065

Ile Gly Lys Asp Leu Asp Tyr Leu Lys Asp Val Asn Gly Thr Thr

1070 1075 1080

Ser Gly Ile Gly Thr Gly Ser Ser Val Glu Lys Tyr Ile Ile Asp

1085 1090 1095

Glu Ser Asp Tyr Met Ser Phe Ile Asn Asn Pro Ser Leu Thr Val

1100 1105 1110

Thr Val Pro Ile Ala Val Gly Glu Ser Asp Phe Glu Asn Leu Asn

1115 1120 1125

Thr Glu Asp Phe Ser Ser Glu Ser Asp Leu Glu Glu Ser Lys Glu

1130 1135 1140

Lys Leu Asn Glu Ser Ser Ser Ser Ser Glu Gly Ser Thr Val Asp

1145 1150 1155

Ile Gly Ala Pro Val Glu Glu Gln Pro Val Val Glu Pro Glu Glu

1160 1165 1170

Thr Leu Glu Pro Glu Ala Cys Phe Thr Glu Gly Cys Val Gln Arg

1175 1180 1185

Phe Lys Cys Cys Gln Ile Asn Val Glu Glu Gly Arg Gly Lys Gln

1190 1195 1200

Trp Trp Asn Leu Arg Arg Thr Cys Phe Arg Ile Val Glu His Asn

1205 1210 1215

Trp Phe Glu Thr Phe Ile Val Phe Met Ile Leu Leu Ser Ser Gly

1220 1225 1230

Ala Leu Ala Phe Glu Asp Ile Tyr Ile Asp Gln Arg Lys Thr Ile

1235 1240 1245

Lys Thr Met Leu Glu Tyr Ala Asp Lys Val Phe Thr Tyr Ile Phe

1250 1255 1260

Ile Leu Glu Met Leu Leu Lys Trp Val Ala Tyr Gly Tyr Gln Thr

1265 1270 1275

Tyr Phe Thr Asn Ala Trp Cys Trp Leu Asp Phe Leu Ile Val Asp

1280 1285 1290

Val Ser Leu Val Ser Leu Thr Ala Asn Ala Leu Gly Tyr Ser Glu

1295 1300 1305

Leu Gly Ala Ile Lys Ser Leu Arg Thr Leu Arg Ala Leu Arg Pro

1310 1315 1320

Leu Arg Ala Leu Ser Arg Phe Glu Gly Met Arg Val Val Val Asn

1325 1330 1335

Ala Leu Leu Gly Ala Ile Pro Ser Ile Met Asn Val Leu Leu Val

1340 1345 1350

Cys Leu Ile Phe Trp Leu Ile Phe Ser Ile Met Gly Val Asn Leu

1355 1360 1365

Phe Ala Gly Lys Phe Tyr His Cys Ile Asn Thr Thr Thr Gly Asp

1370 1375 1380

Arg Phe Asp Ile Glu Asp Val Asn Asn His Thr Asp Cys Leu Lys

1385 1390 1395

Leu Ile Glu Arg Asn Glu Thr Ala Arg Trp Lys Asn Val Lys Val

1400 1405 1410

Asn Phe Asp Asn Val Gly Phe Gly Tyr Leu Ser Leu Leu Gln Val

1415 1420 1425

Ala Thr Phe Lys Gly Trp Met Asp Ile Met Tyr Ala Ala Val Asp

1430 1435 1440

Ser Arg Asn Val Glu Leu Gln Pro Lys Tyr Glu Glu Ser Leu Tyr

1445 1450 1455

Met Tyr Leu Tyr Phe Val Ile Phe Ile Ile Phe Gly Ser Phe Phe

1460 1465 1470

Thr Leu Asn Leu Phe Ile Gly Val Ile Ile Asp Asn Phe Asn Gln

1475 1480 1485

Gln Lys Lys Lys Phe Gly Gly Gln Asp Ile Phe Met Thr Glu Glu

1490 1495 1500

Gln Lys Lys Tyr Tyr Asn Ala Met Lys Lys Leu Gly Ser Lys Lys

1505 1510 1515

Pro Gln Lys Pro Ile Pro Arg Pro Gly Asn Lys Phe Gln Gly Met

1520 1525 1530

Val Phe Asp Phe Val Thr Arg Gln Val Phe Asp Ile Ser Ile Met

1535 1540 1545

Ile Leu Ile Cys Leu Asn Met Val Thr Met Met Val Glu Thr Asp

1550 1555 1560

Asp Gln Ser Glu Tyr Val Thr Thr Ile Leu Ser Arg Ile Asn Leu

1565 1570 1575

Val Phe Ile Val Leu Phe Thr Gly Glu Cys Val Leu Lys Leu Ile

1580 1585 1590

Ser Leu Arg His Tyr Tyr Phe Thr Ile Gly Trp Asn Ile Phe Asp

1595 1600 1605

Phe Val Val Val Ile Leu Ser Ile Val Gly Met Phe Leu Ala Glu

1610 1615 1620

Leu Ile Glu Lys Tyr Phe Val Ser Pro Thr Leu Phe Arg Val Ile

1625 1630 1635

Arg Leu Ala Arg Ile Gly Arg Ile Leu Arg Leu Ile Lys Gly Ala

1640 1645 1650

Lys Gly Ile Arg Thr Leu Leu Phe Ala Leu Met Met Ser Leu Pro

1655 1660 1665

Ala Leu Phe Asn Ile Gly Leu Leu Leu Phe Leu Val Met Phe Ile

1670 1675 1680

Tyr Ala Ile Phe Gly Met Ser Asn Phe Ala Tyr Val Lys Arg Glu

1685 1690 1695

Val Gly Ile Asp Asp Met Phe Asn Phe Glu Thr Phe Gly Asn Ser

1700 1705 1710

Met Ile Cys Leu Phe Gln Ile Thr Thr Ser Ala Gly Trp Asp Gly

1715 1720 1725

Leu Leu Ala Pro Ile Leu Asn Ser Lys Pro Pro Asp Cys Asp Pro

1730 1735 1740

Asn Lys Val Asn Pro Gly Ser Ser Val Lys Gly Asp Cys Gly Asn

1745 1750 1755

Pro Ser Val Gly Ile Phe Phe Phe Val Ser Tyr Ile Ile Ile Ser

1760 1765 1770

Phe Leu Val Val Val Asn Met Tyr Ile Ala Val Ile Leu Glu Asn

1775 1780 1785

Phe Ser Val Ala Thr Glu Glu Ser Ala Glu Pro Leu Ser Glu Asp

1790 1795 1800

Asp Phe Glu Met Phe Tyr Glu Val Trp Glu Lys Phe Asp Pro Asp

1805 1810 1815

Ala Thr Gln Phe Met Glu Phe Glu Lys Leu Ser Gln Phe Ala Ala

1820 1825 1830

Ala Leu Glu Pro Pro Leu Asn Leu Pro Gln Pro Asn Lys Leu Gln

1835 1840 1845

Leu Ile Ala Met Asp Leu Pro Met Val Ser Gly Asp Arg Ile His

1850 1855 1860

Cys Leu Asp Ile Leu Phe Ala Phe Thr Lys Arg Val Leu Gly Glu

1865 1870 1875

Ser Gly Glu Met Asp Ala Leu Arg Ile Gln Met Glu Glu Arg Phe

1880 1885 1890

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

1895 1900 1905

Thr Leu Lys Arg Lys Gln Glu Glu Val Ser Ala Val Ile Ile Gln

1910 1915 1920

Arg Ala Tyr Arg Arg His Leu Leu Lys Arg Thr Val Lys Gln Ala

1925 1930 1935

Ser Phe Thr Tyr Asn Lys Asn Lys Ile Lys Gly Gly Ala Asn Leu

1940 1945 1950

Leu Ile Lys Glu Asp Met Ile Ile Asp Arg Ile Asn Glu Asn Ser

1955 1960 1965

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

1970 1975 1980

Pro Ser Tyr Asp Arg Val Thr Lys Pro Ile Val Glu Lys His Glu

1985 1990 1995

Gln Glu Gly Lys Asp Glu Lys Ala Lys Gly Lys

2000 2005

<210> 181

<211> 593

<212> PRT

<213> Homo sapiens

<400> 181

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Gly Thr Arg Cys Pro Asp Gly Gln Phe Cys Pro Val Ala Cys Cys Leu
20 25 30

Asp Pro Gly Gly Ala Ser Tyr Ser Cys Cys Arg Pro Leu Leu Asp Lys
35 40 45

Trp Pro Thr Thr Leu Ser Arg His Leu Gly Gly Pro Cys Gln Val Asp
50 55 60

Ala His Cys Ser Ala Gly His Ser Cys Ile Phe Thr Val Ser Gly Thr
65 70 75 80

Ser Ser Cys Cys Pro Phe Pro Glu Ala Val Ala Cys Gly Asp Gly His
85 90 95

His Cys Cys Pro Arg Gly Phe His Cys Ser Ala Asp Gly Arg Ser Cys
100 105 110

Phe Gln Arg Ser Gly Asn Asn Ser Val Gly Ala Ile Gln Cys Pro Asp
115 120 125

Ser Gln Phe Glu Cys Pro Asp Phe Ser Thr Cys Cys Val Met Val Asp

130 135 140

Gly Ser Trp Gly Cys Cys Pro Met Pro Gln Ala Ser Cys Cys Glu Asp

145 150 155 160

Arg Val His Cys Cys Pro His Gly Ala Phe Cys Asp Leu Val His Thr

165 170 175

Arg Cys Ile Thr Pro Thr Gly Thr His Pro Leu Ala Lys Lys Leu Pro

180 185 190

Ala Gln Arg Thr Asn Arg Ala Val Ala Leu Ser Ser Ser Val Met Cys

195 200 205

Pro Asp Ala Arg Ser Arg Cys Pro Asp Gly Ser Thr Cys Cys Glu Leu

210 215 220

Pro Ser Gly Lys Tyr Gly Cys Cys Pro Met Pro Asn Ala Thr Cys Cys

225 230 235 240

Ser Asp His Leu His Cys Cys Pro Gln Asp Thr Val Cys Asp Leu Ile

245 250 255

Gln Ser Lys Cys Leu Ser Lys Glu Asn Ala Thr Thr Asp Leu Leu Thr
260 265 270

Lys Leu Pro Ala His Thr Val Gly Asp Val Lys Cys Asp Met Glu Val
275 280 285

Ser Cys Pro Asp Gly Tyr Thr Cys Cys Arg Leu Gln Ser Gly Ala Trp
290 295 300

Gly Cys Cys Pro Phe Thr Gln Ala Val Cys Cys Glu Asp His Ile His
305 310 315 320

Cys Cys Pro Ala Gly Phe Thr Cys Asp Thr Gln Lys Gly Thr Cys Glu
325 330 335

Gln Gly Pro His Gln Val Pro Trp Met Glu Lys Ala Pro Ala His Leu
340 345 350

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

Val Ser Ser Cys Pro Ser Ser Asp Thr Cys Cys Gln Leu Thr Ser Gly

370 375 380

Glu Trp Gly Cys Cys Pro Ile Pro Glu Ala Val Cys Cys Ser Asp His

385 390 395 400

Gln His Cys Cys Pro Gln Gly Tyr Thr Cys Val Ala Glu Gly Gln Cys

405 410 415

Gln Arg Gly Ser Glu Ile Val Ala Gly Leu Glu Lys Met Pro Ala Arg

420 425 430

Arg Ala Ser Leu Ser His Pro Arg Asp Ile Gly Cys Asp Gln His Thr

435 440 445

Ser Cys Pro Val Gly Gln Thr Cys Cys Pro Ser Leu Gly Gly Ser Trp

450 455 460

Ala Cys Cys Gln Leu Pro His Ala Val Cys Cys Glu Asp Arg Gln His

465 470 475 480

Cys Cys Pro Ala Gly Tyr Thr Cys Asn Val Lys Ala Arg Ser Cys Glu

485 490 495

Lys Glu Val Val Ser Ala Gln Pro Ala Thr Phe Leu Ala Arg Ser Pro

500 505 510

His Val Gly Val Lys Asp Val Glu Cys Gly Glu Gly His Phe Cys His

515 520 525

Asp Asn Gln Thr Cys Cys Arg Asp Asn Arg Gln Gly Trp Ala Cys Cys

530 535 540

Pro Tyr Arg Gln Gly Val Cys Cys Ala Asp Arg Arg His Cys Cys Pro

545 550 555 560

Ala Gly Phe Arg Cys Ala Ala Arg Gly Thr Lys Cys Leu Arg Arg Glu

565 570 575

Ala Pro Arg Trp Asp Ala Pro Leu Arg Asp Pro Ala Leu Arg Gln Leu

580 585 590

Leu

<210> 182

<211> 56

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

oligonucleótidos sintéticos

<400> 182

gtaaggtaag aattgaattt ctcagttgaa ggatgcttac actcttgtcc atctag 56

<210> 183

<211> 2051

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

polinucleótido sintético

<400> 183

ggaggaagcc atcaactaaa ctacaatgac tgtaagatac aaaattggga atggtaacat 60

attttgaagt tctgttgaca taaagaatca tgatattaat gcccatggaa atgaaagggc 120

gatcaacact atggtttgaa aaggggggaaa ttgtagagca cagatgtgtt cgtgtggcag 180

tgtgctgtct ctagcaatac tcagagaaga gagagaacaa tgaaattctg attggcccca 240

gtgtgagccc agatgaggtt cagctgccaa ctttctcttt cacatcttat gaaagtcatt 300

taagcacaac taacttttttt ttttttttttt ttttttgag acagagtctt gctctgttgc 360

ccaggacaga gtgcagtagt gactcaatct cggctcactg cagcctccac ctcctaggct 420

caaacggtcc tcctgcatca gcctcccaag tagctggaat tacaggagtg gcccaccatg 480

cccagctaat ttttgtattt ttaatagata cgggggtttc accatatcac ccaggctggt 540

ctcgaactcc tggcctcaag tgatccacct gcctcggcct cccaaagtgc tgggattata 600

ggcgtcagcc actatgccca acccgaccaa ccttttttaa aataaatatt taaaaaattg 660

gtatttcaca tatatactag tatttacatt tatccacaca aaacggacgg gcctccgctg 720

aaccagtgag gccccagacg tgcgcataaa taacccctgc gtgctgcacc acctggggag 780

agggggagga ccacggtaaa tggagcgagc gcatagcaaa agggacgcgg ggtccttttc 840

tctgccggtg gcactgggta gctgtggcca ggtgtggtac tttgatgggg cccagggctg 900

gagctcaagg aagcgtcgca gggtcacaga tctgggggaa ccccggggaa aagcactgag 960

gcaaaaccgc cgctcgtctc ctacaatata tgggaggggg aggttgagta cgttctggat 1020

tactcataag acctttttt tttccttccg ggcgcaaaac cgtgagctgg atttataatc 1080

gccctataaa gctccagagg cggtcaggca cctgcagagg agccccgccg ctccgccgac 1140

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actctgcccc cgcctacccc ggagccgtgc agccgcctct ccgaatctct ctcttctcct 1260

ggcgctcgcg tgcgagaggg aactagcgag aacgaggaag cagctggagg tgacgccggg 1320

cagattacgc ctgtcagggc cgagccgagc ggatcgctgg gcgctgtgca gaggaaaggc 1380

gggagtgccc ggctcgctgt cgcagagccg aggtgggtaa gctagcgacc acctggactt 1440

cccagcgccc aaccgtggct tttcagccag gtcctctcct cccgcggctt ctcaaccaac 1500

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caaagtccct agtccccgga gcagttagcc tctttctttc cagggaatta gccagacaca 1800

acaacgggaa ccagacaccg aaccagacat gcccgccccg tgcgccctcc ccgctcgctg 1860

cctttcctcc ctcttgtctc tccagagccg gatcttcaag gggagcctcc gtgcccccgg 1920

ctgctcagtc cctccggtgt gcaggacccc ggaagtcctc cccgcacagc tctcgcttct 1980

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cgaccgagct g 2051

<210> 184

<211> 1878

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

polinucleótido sintético

<400> 184

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tagagaaaca tcagtgactg tgccagcttt ggggtagact gcacaaaagc cctgaggcag 120

cacaggcagg atccagtctg ctggtcccag gaagctaacc gtctcagaca gagcacaaag 180

caccgagaca tgtgccacaa ggcttgtgta gagaggtcag aggacagcgt acaggtccca 240

gagatcaaac tcaacctcac caggcttggc agcaagcctt taccaaccca cccccacccc 300

acccaccctg cacgcgcccc tctcccctcc ccatggtctc ccatggctat ctcacttggc 360

cctaaaatgt ttaaggatga cactggctgc tgagtggaaa tgagacagca gaagtcaaca 420

gtagatttta ggaaagccag agaaaaaggc ttgtgctgtt tttagaaagc caagggacaa 480

gctaagatag ggcccaagta atgctagtat ttacatttat ccacacaaaa cggacgggcc 540

tccgctgaac cagtgaggcc ccagacgtgc gcataaataa cccctgcgtg ctgcaccacc 600

tggggagagg gggaggacca cggtaaatgg agcgagcgca tagcaaaagg gacgcggggt 660

ccttttctct gccggtggca ctgggtagct gtggccaggt gtggtacttt gatggggccc 720

agggctggag ctcaaggaag cgtcgcaggg tcacagatct gggggaaccc cggggaaaag 780

cactgaggca aaaccgccgc tcgtctccta caatatatgg gagggggagg ttgagtacgt 840

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tataatcgcc ctataaagct ccagaggcgg tcaggcacct gcagaggagc cccgccgctc 960

cgccgactag ctgcccccgc gagcaacggc ctcgtgattt ccccgccgat ccggtccccg 1020

cctccccact ctgcccccgc ctaccccgga gccgtgcagc cgcctctccg aatctctctc 1080

ttctcctggc gctcgcgtgc gagagggaac tagcgagaac gaggaagcag ctggaggtga 1140

cgccgggcag attacgcctg tcagggccga gccgagcgga tcgctgggcg ctgtgcagag 1200

gaaaggcggg agtgcccggc tcgctgtcgc agagccgagg tgggtaagct agcgaccacc 1260

tggacttccc agcgcccaac cgtggctttt cagccaggtc ctctcctccc gcggcttctc 1320

aaccaacccc atcccagcgc cggccaccca acctcccgaa atgagtgctt cctgccccag 1380

cagccgaagg cgctactagg aacggtaacc tgttacttttt ccaggggccg tagtcgaccc 1440

gctgcccgag ttgctgtgcg actgcgcgcg cggggctaga gtgcaaggtg actgtggttc 1500

ttctctggcc aagtccgagg gagaacgtaa agatatgggc ctttttcccc ctctcacctt 1560

gtctcaccaa agtccctagt ccccggagca gttagcctct ttctttccag ggaattagcc 1620

agacacaaca acgggaacca gacaccgaac cagacatgcc cgccccgtgc gccctccccg 1680

ctcgctgcct ttcctccctc ttgtctctcc agagccggat cttcaagggg agcctccgtg 1740

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cgcttctctt tgcagcctgt ttctgcgccg gaccagtcga ggactctgga cagtagaggc 1860

cccgggacga ccgagctg 1878

<210> 185

<211> 681

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

polinucleótido sintético

<400> 185

ggaggaagcc atcaactaaa ctacaatgac tgtaagatac aaaattggga atggtaacat 60

attttgaagt tctgttgaca taaagaatca tgatattaat gcccatggaa atgaaagggc 120

gatcaacact atggtttgaa aaggggggaaa ttgtagagca cagatgtgtt cgtgtggcag 180

tgtgctgtct ctagcaatac tcagagaaga gagagaacaa tgaaattctg attggcccca 240

gtgtgagccc agatgaggtt cagctgccaa ctttctcttt cacatcttat gaaagtcatt 300

taagcacaac taacttttt ttttttttt ttttttgag acagagtctt gctctgttgc 360

ccaggacaga gtgcagtagt gactcaatct cggctcactg cagcctccac ctcctaggct 420

caaacggtcc tcctgcatca gcctcccaag tagctggaat tacaggagtg gcccaccatg 480

cccagctaat ttttgtattt ttaatagata cgggggtttc accatatcac ccaggctggt 540

ctcgaactcc tggcctcaag tgatccacct gcctcggcct cccaaagtgc tgggattata 600

ggcgtcagcc actatgccca acccgaccaa ccttttttaa aataaatatt taaaaaattg 660

gtatttcaca tatatactag t 681

<210> 186

<211> 1335

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

polinucleótido sintético

<400> 186

gagtaattca tacaaaagga ctcgcccctg ccttggggaa tcccagggac cgtcgttaaa 60

ctcccactaa cgtagaaccc agagatcgct gcgttcccgc cccctcaccc gcccgctctc 120

gtcatcactg aggtggagaa gagcatgcgt gaggctccgg tgcccgtcag tgggcagagc 180

gcacatcgcc cacagtcccc gagaagttgg ggggaggggt cggcaattga accggtgcct 240

agagaaggtg gcgcggggta aactgggaaa gtgatgtcgt gtactggctc cgccttttc 300

ccgagggtgg gggagaaccg tatataagtg cagtagtcgc cgtgaacgtt ctttttcgca 360

acgggtttgc cgccagaaca caggtaagtg ccgtgtgtgg ttcccgcggg cctggcctct 420

ttacgggtta tggcccttgc gtgccttgaa ttacttccac gcccctggct gcagtacgtg 480

attcttgatc ccgagcttcg ggttggaagt gggtgggaga gttcgaggcc ttgcgcttaa 540

ggagcccctt cgcctcgtgc ttgagttgag gcctggcttg ggcgctgggg ccgccgcgtg 600

cgaatctggt ggcaccttcg cgcctgtctc gctgctttcg ataagtctct agccatttaa 660

aatttttgat gacctgctgc gacgcttttt ttctggcaag atagtcttgt aaatgcgggc 720

caagatctgc acactggtat ttcggttttt ggggccgcgg gcggcgacgg ggcccgtgcg 780

tcccagcgca catgttcggc gaggcggggc ctgcgagcgc ggccaccgag aatcggacgg 840

gggtagtctc aagctggccg gcctgctctg gtgcctggcc tcgcgccgcc gtgtatcgcc 900

ccgccctggg cggcaaggct ggcccggtcg gcaccagttg cgtgagcgga aagatggccg 960

cttcccggcc ctgctgcagg gagctcaaaa tggaggacgc ggcgctcggg agagcgggcg 1020

ggtgagtcac ccacacaaag gaaaagggcc tttccgtcct cagccgtcgc ttcatgtgac 1080

tccacggagt accgggcgcc gtccaggcac ctcgattagt tctcgagctt ttggagtacg 1140

tcgtctttag gttgggggga ggggttttat gcgatggagt ttccccacac tgagtgggtg 1200

gagactgaag ttaggccagc ttggcacttg atgtaattct ccttggaatt tgccctttt 1260

gagtttggat cttggttcat tctcaagcct cagacagtgg ttcaaagttt ttttcttcca 1320

tttcaggtgt cgtga 1335

<210> 187

<211> 1366

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

polinucleótido sintético

<400> 187

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agaacgatgt cgagtttact ccctatcagt gatagagaac gtatgtcgag tttactccct 120

atcagtgata gagaacgtat gtcgagttta ctccctatca gtgatagaga acgtatgtcg 180

agtttatccc tatcagtgat agagaacgta tgtcgagttt actccctatc agtgatagag 240

aacgtatgtc gaggtaggcg tgtacggtgg gaggcctata taagcagagc tcgtttagtg 300

aaccgtcaga tcgccgaatt cgccaccatg gtgagcaagg gcgaggagct gttcaccggg 360

gtggtgccca tcctggtcga gctggacggc gacgtaaacg gccacaagtt cagcgtgtcc 420

ggcgagggcg agggcgatgc cacctacggc aagctgaccc tgaagttcat ctgcaccacc 480

ggcaagctgc ccgtgccctg gcccaccctc gtgaccaccc tgacctacgg cgtgcagtgc 540

ttcagccgct accccgacca catgaagcag cacgacttct tcaagtccgc catgcccgaa 600

ggctacgtcc aggagcgcac catcttcttc aaggacgacg gcaactacaa gacccgcgcc 660

gaggtgaagt tcgagggcga caccctggtg aaccgcatcg agctgaaggg catcgacttc 720

aaggaggacg gcaacatcct ggggcacaag ctggagtaca actacaacag ccacaacgtc 780

tatatcatgg ccgacaagca gaagaacggc atcaaggtga acttcaagat ccgccacaac 840

atcgaggacg gcagcgtgca gctcgccgac cactaccagc agaacacccc catcggcgac 900

ggccccgtgc tgctgcccga caaccactac ctgagcaccc agtccgccct gagcaaagac 960

cccaacgaga agcgcgatca catggtcctg ctggagttcg tgaccgccgc cgggatcact 1020

ctcggcatgg acgagctgta caagtccgga ctcagatctc gagaggagga ggaggagaca 1080

gacagcagga tgccccacct cgacagcccc ggcagctccc agccgagacg ctccttcctc 1140

tcaagggtga tcagggcagc tctaccgttg cagctgcttc tgctgctgct gctgctcctg 1200

gcctgcctgc tacctgcctc tgaagatgac tacagctgca cccaggccaa caactttgcc 1260

cgatccttct accccatgct gcggtacacc aacgggccac ctcccaccta gactagtaat 1320

aaaagatctt tattttcatt agatctgtgt gttggttttt tgtgtg 1366

<210> 188

<211> 315

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

polinucleótido sintético

<400> 188

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agaacgatgt cgagtttact ccctatcagt gatagagaac gtatgtcgag tttactccct 120

atcagtgata gagaacgtat gtcgagttta ctccctatca gtgatagaga acgtatgtcg 180

agtttatccc tatcagtgat agagaacgta tgtcgagttt actccctatc agtgatagag 240

aacgtatgtc gaggtaggcg tgtacggtgg gaggcctata taagcagagc tcgtttagtg 300

aaccgtcaga tcgcc 315

<210> 189

<400> 189

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<210> 190

<211> 22

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

primer

<400> 190

tgtctcggca ttgagaacat tc 22

<210> 191

<211> 21

<212> DNA

<213> Secuencia Artificial

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<223> Descripción de secuencia artificial:

primer

<400> 191

attggtggga ggccattgta t 21

<210> 192

<211> 20

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

primer

<400> 192

accacagtcc atgccatcac 20

<210> 193

<211> 20

<212> DNA

<213> Secuencia Artificial

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<223> Descripción de secuencia artificial:

primer

<400> 193

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<400> 196

acaaagtgga gagactaccc g 21

<210> 197

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<400> 197

ggtacgggca aagatttctt g 21

<210> 198

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<400> 198

tttgcccgta ccaaagtctt g 21

<210> 199

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<213> Homo sapiens

<400> 199

tcttcagcca caaaaaaaaa a 21

<210> 200

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<212> DNA

<213> Homo sapiens

<400> 200

gtgtgcaacc catgaggtcg c 21

<210> 201

<211> 21

<212> DNA

<213> Homo sapiens

<400> 201

acacaatgag ccacctacaa g 21

<210> 202

<211> 21

<212> DNA

<213> Homo sapiens

<400> 202

gtggctcatt gtgtgtgtgc c 21

<210> 203

<211> 21

<212> DNA

<213> Homo sapiens

<400> 203

agaaagctga tacagataca a 21

<210> 204

<400> 204

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<210> 205

<211> 21

<212> DNA

<213> Homo sapiens

<400> 205

aaaccagcaa caaacagtat a 21

<210> 206

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<213> Homo sapiens

<400> 206

gagaatcatc taggtcagga c 21

<210> 207

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<400> 207

ttctcagttt tgaaattaaa a 21

<210> 208

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catatccctg caggttcaga a 21

<210> 209

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<210> 210

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<400> 210

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<400> 211

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<213> Homo sapiens

<400> 224

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attacagttc tgtcagcatg c 21

<210> 226

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<400> 226

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tcctgcctac ttagtttcaa g 21

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tgctgaggca ggacacagtg t 21

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aaagtacatt aggctaat 18

<210> 266

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<212> PRT

<213> Secuencia Artificial

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Polipéptido sintético

<400> 268

Met Ala Pro Lys Lys Lys Arg Lys Val Gly Ile His Gly Val Pro Ala

1 5 10 15

Ala Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

20 25 30

Ser Phe Ser Asp Pro Gly His Leu Val Arg His Gln Arg Thr His Thr

35 40 45

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Thr

50 55 60

Lys Asn Ser Leu Thr Glu His Gln Arg Thr His Thr Gly Glu Lys Pro

65 70 75 80

Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Asn Asp Ala Leu

85 90 95

Thr Glu His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro

100 105 110

Glu Cys Gly Lys Ser Phe Ser Glu Arg Ser His Leu Arg Glu His Gln

115 120 125

Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

130 135 140

Ser Phe Ser Ser Lys Lys His Leu Ala Glu His Gln Arg Thr His Thr

145 150 155 160

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Thr

165 170 175

His Leu Asp Leu Ile Arg His Gln Arg Thr His Thr Gly Glu Lys Pro

180 185 190

Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Ser Gly Asn Leu

195 200 205

Thr Glu His Gln Arg Thr His Thr Gly Lys Lys Thr Ser Lys Arg Pro

210 215 220

Ala Ala Thr Lys Lys Ala Gly

225 230

<210> 269

<211> 203

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 269

Met Ala Pro Lys Lys Lys Arg Lys Val Gly Ile His Gly Val Pro Ala

1 5 10 15

Ala Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

20 25 30

Ser Phe Ser Ser Arg Arg Thr Cys Arg Ala His Gln Arg Thr His Thr

35 40 45

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Thr

50 55 60

Thr Gly Ala Leu Thr Glu His Gln Arg Thr His Thr Gly Glu Lys Pro

65 70 75 80

Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Ser Asp Glu Leu

85 90 95

Val Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro

100 105 110

Glu Cys Gly Lys Ser Phe Ser Arg Asn Asp Ala Leu Thr Glu His Gln

115 120 125

Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

130 135 140

Ser Phe Ser Gln Ser Gly Asp Leu Arg Arg His Gln Arg Thr His Thr

145 150 155 160

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Thr

165 170 175

Ser His Ser Leu Thr Glu His Gln Arg Thr His Thr Gly Lys Lys Thr

180 185 190

Ser Lys Arg Pro Ala Ala Thr Lys Lys Ala Gly

195 200

<210> 270

<211> 203

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 270

Met Ala Pro Lys Lys Lys Arg Lys Val Gly Ile His Gly Val Pro Ala

1 5 10 15

Ala Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

20 25 30

Ser Phe Ser Arg Lys Asp Asn Leu Lys Asn His Gln Arg Thr His Thr

35 40 45

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Asp

50 55 60

Pro Gly Ala Leu Val Arg His Gln Arg Thr His Thr Gly Glu Lys Pro

65 70 75 80

Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Glu Asp Asn Leu

85 90 95

His Thr His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro

100 105 110

Glu Cys Gly Lys Ser Phe Ser Asp Pro Gly Ala Leu Val Arg His Gln

115 120 125

Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

130 135 140

Ser Phe Ser Thr Ser Gly Glu Leu Val Arg His Gln Arg Thr His Thr

145 150 155 160

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg

165 170 175

Lys Asp Asn Leu Lys Asn His Gln Arg Thr His Thr Gly Lys Lys Thr

180 185 190

Ser Lys Arg Pro Ala Ala Thr Lys Lys Ala Gly

195 200

<210> 271

<211> 272

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 271

Met Ala Pro Lys Lys Lys Arg Lys Val Gly Ile His Gly Val Pro Ala

1 5 10 15

Ala Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

20 25 30

Ser Phe Ser Arg Ser Asp Asn Leu Val Arg His Gln Arg Thr His Thr

35 40 45

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg

50 55 60

Glu Asp Asn Leu His Thr His Gln Arg Thr His Thr Gly Glu Lys Pro

65 70 75 80

Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Ser Asp Glu Leu

85 90 95

Val Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro

100 105 110

Glu Cys Gly Lys Ser Phe Ser Gln Ser Gly Asn Leu Thr Glu His Gln

115 120 125

Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

130 135 140

Ser Phe Ser Thr Ser Gly His Leu Val Arg His Gln Arg Thr His Thr

145 150 155 160

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln

165 170 175

Asn Ser Thr Leu Thr Glu His Gln Arg Thr His Thr Gly Lys Lys Thr

180 185 190

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

195 200 205

Lys Gly Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Leu Glu Asp Ala

210 215 220

Leu Asp Asp Phe Asp Leu Asp Met Leu Gly Ser Asp Ala Leu Asp Asp

225 230 235 240

Phe Asp Leu Asp Met Leu Gly Ser Asp Ala Leu Asp Asp Phe Asp Leu

245 250 255

Asp Met Leu Gly Ser Asp Ala Leu Asp Asp Phe Asp Leu Asp Met Leu

260 265 270

<210> 272

<211> 328

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 272

Met Ala Pro Lys Lys Lys Arg Lys Val Gly Ile His Gly Val Pro Ala

1 5 10 15

Ala Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

20 25 30

Ser Phe Ser Ser Lys Lys Ala Leu Thr Glu His Gln Arg Thr His Thr

35 40 45

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Ser

50 55 60

Pro Ala Asp Leu Thr Arg His Gln Arg Thr His Thr Gly Glu Lys Pro

65 70 75 80

Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Ser Asp Asn Leu

85 90 95

Val Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro

100 105 110

Glu Cys Gly Lys Ser Phe Ser Arg Glu Asp Asn Leu His Thr His Gln

115 120 125

Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

130 135 140

Ser Phe Ser Arg Ser Asp Glu Leu Val Arg His Gln Arg Thr His Thr

145 150 155 160

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln

165 170 175

Ser Gly Asn Leu Thr Glu His Gln Arg Thr His Thr Gly Glu Lys Pro

180 185 190

Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Thr Ser Gly His Leu

195 200 205

Val Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro

210 215 220

Glu Cys Gly Lys Ser Phe Ser Gln Asn Ser Thr Leu Thr Glu His Gln

225 230 235 240

Arg Thr His Thr Gly Lys Lys Thr Ser Lys Arg Pro Ala Ala Thr Lys

245 250 255

Lys Ala Gly Gln Ala Lys Lys Lys Lys Gly Ser Tyr Pro Tyr Asp Val

260 265 270

Pro Asp Tyr Ala Leu Glu Asp Ala Leu Asp Asp Phe Asp Leu Asp Met

275 280 285

Leu Gly Ser Asp Ala Leu Asp Asp Phe Asp Leu Asp Met Leu Gly Ser

290 295 300

Asp Ala Leu Asp Asp Phe Asp Leu Asp Met Leu Gly Ser Asp Ala Leu

305 310 315 320

Asp Asp Phe Asp Leu Asp Met Leu

325

<210> 273

<211> 203

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 273

Met Ala Pro Lys Lys Lys Arg Lys Val Gly Ile His Gly Val Pro Ala

1 5 10 15

Ala Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

20 25 30

Ser Phe Ser Ser Pro Ala Asp Leu Thr Arg His Gln Arg Thr His Thr

35 40 45

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg

50 55 60

Ser Asp Asn Leu Val Arg His Gln Arg Thr His Thr Gly Glu Lys Pro
65 70 75 80

Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Glu Asp Asn Leu
85 90 95

His Thr His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro
100 105 110

Glu Cys Gly Lys Ser Phe Ser Arg Ser Asp Glu Leu Val Arg His Gln
115 120 125

Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys
130 135 140

Ser Phe Ser Gln Ser Gly Asn Leu Thr Glu His Gln Arg Thr His Thr
145 150 155 160

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Thr
165 170 175

Ser Gly His Leu Val Arg His Gln Arg Thr His Thr Gly Lys Lys Thr

180 185 190

Ser Lys Arg Pro Ala Ala Thr Lys Lys Ala Gly

195 200

<210> 274

<211> 203

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 274

Met Ala Pro Lys Lys Lys Arg Lys Val Gly Ile His Gly Val Pro Ala

1 5 10 15

Ala Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

20 25 30

Ser Phe Ser Ser Lys Lys Ala Leu Thr Glu His Gln Arg Thr His Thr

35 40 45

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Ser

50 55 60

Pro Ala Asp Leu Thr Arg His Gln Arg Thr His Thr Gly Glu Lys Pro
65 70 75 80

Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Ser Asp Asn Leu
85 90 95

Val Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro
100 105 110

Glu Cys Gly Lys Ser Phe Ser Arg Glu Asp Asn Leu His Thr His Gln
115 120 125

Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys
130 135 140

Ser Phe Ser Arg Ser Asp Glu Leu Val Arg His Gln Arg Thr His Thr
145 150 155 160

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln
165 170 175

Ser Gly Asn Leu Thr Glu His Gln Arg Thr His Thr Gly Lys Lys Thr

180 185 190

Ser Lys Arg Pro Ala Ala Thr Lys Lys Ala Gly

195 200

<210> 275

<211> 259

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 275

Met Ala Pro Lys Lys Lys Arg Lys Val Gly Ile His Gly Val Pro Ala

1 5 10 15

Ala Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

20 25 30

Ser Phe Ser Asp Cys Arg Asp Leu Ala Arg His Gln Arg Thr His Thr

35 40 45

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg

50 55 60

Asn Asp Ala Leu Thr Glu His Gln Arg Thr His Thr Gly Glu Lys Pro

65 70 75 80

Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Asn Asp Ala Leu

85 90 95

Thr Glu His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro

100 105 110

Glu Cys Gly Lys Ser Phe Ser Ser Pro Ala Asp Leu Thr Arg His Gln

115 120 125

Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

130 135 140

Ser Phe Ser Asp Pro Gly Asn Leu Val Arg His Gln Arg Thr His Thr

145 150 155 160

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln

165 170 175

Arg Ala His Leu Glu Arg His Gln Arg Thr His Thr Gly Glu Lys Pro

180 185 190

Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Ser Ser Ser Leu

195 200 205

Val Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro

210 215 220

Glu Cys Gly Lys Ser Phe Ser His Arg Thr Thr Leu Thr Asn His Gln

225 230 235 240

Arg Thr His Thr Gly Lys Lys Thr Ser Lys Arg Pro Ala Ala Thr Lys

245 250 255

Lys Ala Gly

<210> 276

<211> 203

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 276

Met Ala Pro Lys Lys Lys Arg Lys Val Gly Ile His Gly Val Pro Ala
1 5 10 15

Ala Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys
20 25 30

Ser Phe Ser Arg Asn Asp Ala Leu Thr Glu His Gln Arg Thr His Thr
35 40 45

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Ser
50 55 60

Pro Ala Asp Leu Thr Arg His Gln Arg Thr His Thr Gly Glu Lys Pro
65 70 75 80

Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Asp Pro Gly Asn Leu
85 90 95

Val Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro
100 105 110

Glu Cys Gly Lys Ser Phe Ser Gln Arg Ala His Leu Glu Arg His Gln

115 120 125

Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

130 135 140

Ser Phe Ser Gln Ser Ser Ser Leu Val Arg His Gln Arg Thr His Thr

145 150 155 160

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser His

165 170 175

Arg Thr Thr Leu Thr Asn His Gln Arg Thr His Thr Gly Lys Lys Thr

180 185 190

Ser Lys Arg Pro Ala Ala Thr Lys Lys Ala Gly

195 200

<210> 277

<211> 203

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 277

Met Ala Pro Lys Lys Lys Arg Lys Val Gly Ile His Gly Val Pro Ala
1 5 10 15

Ala Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys
20 25 30

Ser Phe Ser Thr Lys Asn Ser Leu Thr Glu His Gln Arg Thr His Thr
35 40 45

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg
50 55 60

Ala Asp Asn Leu Thr Glu His Gln Arg Thr His Thr Gly Glu Lys Pro
65 70 75 80

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

Arg Ala His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro
100 105 110

Glu Cys Gly Lys Ser Phe Ser Thr Lys Asn Ser Leu Thr Glu His Gln

115 120 125

Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

130 135 140

Ser Phe Ser Gln Ala Gly His Leu Ala Ser His Gln Arg Thr His Thr

145 150 155 160

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Thr

165 170 175

His Leu Asp Leu Ile Arg His Gln Arg Thr His Thr Gly Lys Lys Thr

180 185 190

Ser Lys Arg Pro Ala Ala Thr Lys Lys Ala Gly

195 200

<210> 278

<211> 231

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 278

Met Ala Pro Lys Lys Lys Arg Lys Val Gly Ile His Gly Val Pro Ala
1 5 10 15

Ala Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys
20 25 30

Ser Phe Ser Arg Asn Asp Ala Leu Thr Glu His Gln Arg Thr His Thr
35 40 45

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Asp
50 55 60

Pro Gly His Leu Val Arg His Gln Arg Thr His Thr Gly Glu Lys Pro
65 70 75 80

Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Thr Ser Gly Glu Leu
85 90 95

Val Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro
100 105 110

Glu Cys Gly Lys Ser Phe Ser Thr His Leu Asp Leu Ile Arg His Gln

115 120 125

Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

130 135 140

Ser Phe Ser Ser Lys Lys Ala Leu Thr Glu His Gln Arg Thr His Thr

145 150 155 160

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln

165 170 175

Leu Ala His Leu Arg Ala His Gln Arg Thr His Thr Gly Glu Lys Pro

180 185 190

Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Ser Asp His Leu

195 200 205

Thr Asn His Gln Arg Thr His Thr Gly Lys Lys Thr Ser Lys Arg Pro

210 215 220

Ala Ala Thr Lys Lys Ala Gly

225 230

<210> 279

<211> 272

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 279

Met Ala Pro Lys Lys Lys Arg Lys Val Gly Ile His Gly Val Pro Ala
1 5 10 15

Ala Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys
20 25 30

Ser Phe Ser Arg Ser Asp Asn Leu Val Arg His Gln Arg Thr His Thr
35 40 45

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser His
50 55 60

Arg Thr Thr Leu Thr Asn His Gln Arg Thr His Thr Gly Glu Lys Pro
65 70 75 80

Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Glu Asp Asn Leu

85 90 95

His Thr His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro

100 105 110

Glu Cys Gly Lys Ser Phe Ser Thr Ser His Ser Leu Thr Glu His Gln

115 120 125

Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

130 135 140

Ser Phe Ser Gln Ser Ser Ser Leu Val Arg His Gln Arg Thr His Thr

145 150 155 160

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg

165 170 175

Glu Asp Asn Leu His Thr His Gln Arg Thr His Thr Gly Lys Lys Thr

180 185 190

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

195 200 205

Lys Gly Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Leu Glu Asp Ala

210 215 220

Leu Asp Asp Phe Asp Leu Asp Met Leu Gly Ser Asp Ala Leu Asp Asp

225 230 235 240

Phe Asp Leu Asp Met Leu Gly Ser Asp Ala Leu Asp Asp Phe Asp Leu

245 250 255

Asp Met Leu Gly Ser Asp Ala Leu Asp Asp Phe Asp Leu Asp Met Leu

260 265 270

<210> 280

<211> 272

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 280

Met Ala Pro Lys Lys Lys Arg Lys Val Gly Ile His Gly Val Pro Ala

1 5 10 15

Ala Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

20 25 30

Ser Phe Ser Asp Pro Gly Ala Leu Val Arg His Gln Arg Thr His Thr

35 40 45

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg

50 55 60

Ser Asp Asn Leu Val Arg His Gln Arg Thr His Thr Gly Glu Lys Pro

65 70 75 80

Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Ser Gly Asp Leu

85 90 95

Arg Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro

100 105 110

Glu Cys Gly Lys Ser Phe Ser Thr His Leu Asp Leu Ile Arg His Gln

115 120 125

Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

130 135 140

Ser Phe Ser Thr Ser Gly Asn Leu Val Arg His Gln Arg Thr His Thr

145 150 155 160

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg

165 170 175

Ser Asp Asn Leu Val Arg His Gln Arg Thr His Thr Gly Lys Lys Thr

180 185 190

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

195 200 205

Lys Gly Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Leu Glu Asp Ala

210 215 220

Leu Asp Asp Phe Asp Leu Asp Met Leu Gly Ser Asp Ala Leu Asp Asp

225 230 235 240

Phe Asp Leu Asp Met Leu Gly Ser Asp Ala Leu Asp Asp Phe Asp Leu

245 250 255

Asp Met Leu Gly Ser Asp Ala Leu Asp Asp Phe Asp Leu Asp Met Leu

260 265 270

<210> 281

<211> 203

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 281

Met Ala Pro Lys Lys Lys Arg Lys Val Gly Ile His Gly Val Pro Ala
1 5 10 15

Ala Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys
20 25 30

Ser Phe Ser Gln Ala Gly His Leu Ala Ser His Gln Arg Thr His Thr
35 40 45

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg
50 55 60

Glu Asp Asn Leu His Thr His Gln Arg Thr His Thr Gly Glu Lys Pro
65 70 75 80

Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Thr Ser Gly Asn Leu

85 90 95

Thr Glu His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro

100 105 110

Glu Cys Gly Lys Ser Phe Ser Thr His Leu Asp Leu Ile Arg His Gln

115 120 125

Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

130 135 140

Ser Phe Ser Gln Lys Ser Ser Leu Ile Ala His Gln Arg Thr His Thr

145 150 155 160

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln

165 170 175

Ala Gly His Leu Ala Ser His Gln Arg Thr His Thr Gly Lys Lys Thr

180 185 190

Ser Lys Arg Pro Ala Ala Thr Lys Lys Ala Gly

195 200

<210> 282

<211> 203

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 282

Met Ala Pro Lys Lys Lys Arg Lys Val Gly Ile His Gly Val Pro Ala
1 5 10 15

Ala Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys
20 25 30

Ser Phe Ser Thr Thr Gly Asn Leu Thr Val His Gln Arg Thr His Thr
35 40 45

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Thr
50 55 60

Ser Gly Glu Leu Val Arg His Gln Arg Thr His Thr Gly Glu Lys Pro
65 70 75 80

Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Glu Asp Asn Leu

85 90 95

His Thr His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro

100 105 110

Glu Cys Gly Lys Ser Phe Ser Thr Ser Gly Asn Leu Thr Glu His Gln

115 120 125

Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

130 135 140

Ser Phe Ser Gln Ser Ser Ser Leu Val Arg His Gln Arg Thr His Thr

145 150 155 160

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln

165 170 175

Arg Ala Asn Leu Arg Ala His Gln Arg Thr His Thr Gly Lys Lys Thr

180 185 190

Ser Lys Arg Pro Ala Ala Thr Lys Lys Ala Gly

195 200

<210> 283

<211> 20

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

primer

<400> 283

ggtcacgtac agcttcgcat 20

<210> 284

<211> 20

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

primer

<400> 284

ctggtttctg gctcgtggag 20

<210> 285

<211> 19

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

primer

<400> 285

aagccccaaa gccaagcag 19

<210> 286

<211> 19

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

primer

<400> 286

aggtgtggca ttgaaacgg 19

<210> 287

<211> 20

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

primer

<400> 287

atggtcagtt ctgccctgtg 20

<210> 288

<211> 21

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

primer

<400> 288

cggtaaagat gcaggagtgg c 21

<210> 289

<211> 20

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

primer

<400> 289

tgacaatggg cagaacgaat 20

<210> 290

<211> 20

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

primer

<400> 290

tgcagcactc tgttgacgtt 20

<210> 291

<211> 20

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

primer

<400> 291

tgttgccact ggtgctaaag 20

<210> 292

<211> 20

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

primer

<400> 292

acagcagtct tctccgcttc 20

<210> 293

<211> 20

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

primer

<400> 293

caaaaaagcc acaaaagcct 20

<210> 294

<211> 20

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

primer

<400> 294

ttagctccgc aagaaacatc 20

<210> 295

<211> 667

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 295

Met Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Gly Tyr Pro Tyr Asp Val

1 5 10 15

Pro Asp Tyr Ala Gly Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Gly

20 25 30

Ser Gly Ser Gly Ser Ala Ala Ala Lys Ala Glu Met Gln Leu Met Ser

35 40 45

Pro Leu Gln Ile Ser Asp Pro Phe Gly Ser Phe Pro His Ser Pro Thr

50 55 60

Met Asp Asn Tyr Pro Lys Leu Glu Glu Met Met Leu Leu Ser Asn Gly

65 70 75 80

Ala Pro Gln Phe Leu Gly Ala Ala Gly Ala Pro Glu Gly Ser Gly Ser

85 90 95

Asn Ser Ser Ser Ser Ser Ser Gly Gly Gly Gly Gly Gly Gly Gly Gly

100 105 110

Ser Asn Ser Ser Ser Ser Ser Ser Thr Phe Asn Pro Gln Ala Asp Thr

115 120 125

Gly Glu Gln Pro Tyr Glu His Leu Thr Ala Glu Ser Phe Pro Asp Ile

130 135 140

Ser Leu Asn Asn Glu Lys Val Leu Val Glu Thr Ser Tyr Pro Ser Gln

145 150 155 160

Thr Thr Arg Leu Pro Pro Ile Thr Tyr Thr Gly Arg Phe Ser Leu Glu

165 170 175

Pro Ala Pro Asn Ser Gly Asn Thr Leu Trp Pro Glu Pro Leu Phe Ser

180 185 190

Leu Val Ser Gly Leu Val Ser Met Thr Asn Pro Pro Ala Ser Ser Ser

195 200 205

Ser Ala Pro Ser Pro Ala Ala Ser Ser Ala Ser Ala Ser Gln Ser Pro

210 215 220

Pro Leu Ser Cys Ala Val Pro Ser Asn Asp Ser Ser Pro Ile Tyr Ser

225 230 235 240

Ala Ala Pro Thr Phe Pro Thr Pro Asn Thr Asp Ile Phe Pro Glu Pro

245 250 255

Gln Ser Gln Ala Phe Pro Gly Ser Ala Gly Thr Ala Leu Gln Tyr Pro

260 265 270

Pro Pro Ala Tyr Pro Ala Ala Lys Gly Gly Phe Gln Val Pro Met Ile

275 280 285

Pro Asp Tyr Leu Phe Pro Gln Gln Gln Gly Asp Leu Gly Leu Gly Thr

290 295 300

Pro Asp Gln Lys Pro Phe Gln Gly Leu Glu Ser Arg Thr Gln Gln Pro

305 310 315 320

Ser Leu Thr Pro Leu Ser Thr Ile Lys Ala Phe Ala Thr Gln Ser Gly

325 330 335

Ser Gln Asp Leu Lys Ala Leu Asn Thr Ser Tyr Gln Ser Gln Leu Ile

340 345 350

Lys Pro Ser Arg Met Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro

355 360 365

Pro His Glu Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg

370 375 380

Phe Ser Arg Ser Asp Asn Leu Val Arg His Ile Arg Ile His Thr Gly

385 390 395 400

Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Glu

405 410 415

Asp Asn Leu His Thr His Ile Arg Thr His Thr Gly Glu Lys Pro Phe

420 425 430

Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Arg Ser Asp Glu Leu Val

435 440 445

Arg His Thr Lys Ile His Leu Arg Gln Lys Asp Arg Pro Tyr Ala Cys

450 455 460

Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Gln Ser Gly Asn Leu Thr

465 470 475 480

Glu His Ile Arg Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile

485 490 495

Cys Met Arg Asn Phe Ser Thr Ser Gly His Leu Val Arg His Ile Arg

500 505 510

Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys

515 520 525

Phe Ala Gln Asn Ser Thr Leu Thr Glu His Thr Lys Ile His Leu Arg

530 535 540

Gln Lys Asp Lys Lys Ala Asp Lys Ser Val Val Ala Ser Ser Ala Thr

545 550 555 560

Ser Ser Leu Ser Ser Tyr Pro Ser Pro Val Ala Thr Ser Tyr Pro Ser

565 570 575

Pro Val Thr Thr Ser Tyr Pro Ser Pro Ala Thr Thr Ser Tyr Pro Ser

580 585 590

Pro Val Pro Thr Ser Phe Ser Ser Pro Gly Ser Ser Thr Tyr Pro Ser

595 600 605

Pro Val His Ser Gly Phe Pro Ser Pro Ser Val Ala Thr Thr Tyr Ser

610 615 620

Ser Val Pro Pro Ala Phe Pro Ala Gln Val Ser Ser Phe Pro Ser Ser

625 630 635 640

Ala Val Thr Asn Ser Phe Ser Ala Ser Thr Gly Leu Ser Asp Met Thr

645 650 655

Ala Thr Phe Ser Pro Arg Thr Ile Glu Ile Cys

660 665

<210> 296

<211> 719

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 296

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

Ser Asp Pro Phe Gly Ser Phe Pro His Ser Pro Thr Met Asp Asn Tyr
20 25 30

Pro Lys Leu Glu Glu Met Met Leu Leu Ser Asn Gly Ala Pro Gln Phe
35 40 45

Leu Gly Ala Ala Gly Ala Pro Glu Gly Ser Gly Ser Asn Ser Ser Ser
50 55 60

Ser Ser Ser Gly Gly Gly Gly Gly Gly Gly Gly Gly Ser Asn Ser Ser
65 70 75 80

Ser Ser Ser Ser Thr Phe Asn Pro Gln Ala Asp Thr Gly Glu Gln Pro
85 90 95

Tyr Glu His Leu Thr Ala Glu Ser Phe Pro Asp Ile Ser Leu Asn Asn
100 105 110

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

115 120 125

Pro Pro Ile Thr Tyr Thr Gly Arg Phe Ser Leu Glu Pro Ala Pro Asn

130 135 140

Ser Gly Asn Thr Leu Trp Pro Glu Pro Leu Phe Ser Leu Val Ser Gly

145 150 155 160

Leu Val Ser Met Thr Asn Pro Pro Ala Ser Ser Ser Ser Ala Pro Ser

165 170 175

Pro Ala Ala Ser Ser Ala Ser Ala Ser Gln Ser Pro Pro Leu Ser Cys

180 185 190

Ala Val Pro Ser Asn Asp Ser Ser Pro Ile Tyr Ser Ala Ala Pro Thr

195 200 205

Phe Pro Thr Pro Asn Thr Asp Ile Phe Pro Glu Pro Gln Ser Gln Ala

210 215 220

Phe Pro Gly Ser Ala Gly Thr Ala Leu Gln Tyr Pro Pro Pro Ala Tyr

225 230 235 240

Pro Ala Ala Lys Gly Gly Phe Gln Val Pro Met Ile Pro Asp Tyr Leu
245 250 255

Phe Pro Gln Gln Gln Gly Asp Leu Gly Leu Gly Thr Pro Asp Gln Lys
260 265 270

Pro Phe Gln Gly Leu Glu Ser Arg Thr Gln Gln Pro Ser Leu Thr Pro
275 280 285

Leu Ser Thr Ile Lys Ala Phe Ala Thr Gln Ser Gly Ser Gln Asp Leu
290 295 300

Lys Ala Leu Asn Thr Ser Tyr Gln Ser Gln Leu Ile Lys Pro Ser Arg
305 310 315 320

Met Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro Pro His Glu Arg
325 330 335

Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Asp Pro
340 345 350

Gly Ala Leu Val Arg His Ile Arg Ile His Thr Gly Gln Lys Pro Phe

355 360 365

Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Ser Asp Asn Leu Val

370 375 380

Arg His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile

385 390 395 400

Cys Gly Arg Lys Phe Ala Gln Ser Gly Asp Leu Arg Arg His Thr Lys

405 410 415

Ile His Leu Arg Gln Lys Asp Arg Pro Tyr Ala Cys Pro Val Glu Ser

420 425 430

Cys Asp Arg Arg Phe Ser Thr His Leu Asp Leu Ile Arg His Ile Arg

435 440 445

Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Asn

450 455 460

Phe Ser Thr Ser Gly Asn Leu Val Arg His Ile Arg Thr His Thr Gly

465 470 475 480

Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Arg Ser

485 490 495

Asp Asn Leu Val Arg His Thr Lys Ile His Leu Arg Gln Lys Asp Arg

500 505 510

Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Gln Ser

515 520 525

Gly His Leu Thr Glu His Ile Arg Ile His Thr Gly Gln Lys Pro Phe

530 535 540

Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Glu Arg Ser His Leu Arg

545 550 555 560

Glu His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile

565 570 575

Cys Gly Arg Lys Phe Ala Gln Ala Gly His Leu Ala Ser His Thr Lys

580 585 590

Ile His Leu Arg Gln Lys Asp Lys Lys Ala Asp Lys Ser Val Val Ala

595 600 605

Ser Ser Ala Thr Ser Ser Leu Ser Ser Tyr Pro Ser Pro Val Ala Thr

610 615 620

Ser Tyr Pro Ser Pro Val Thr Thr Ser Tyr Pro Ser Pro Ala Thr Thr

625 630 635 640

Ser Tyr Pro Ser Pro Val Pro Thr Ser Phe Ser Ser Pro Gly Ser Ser

645 650 655

Thr Tyr Pro Ser Pro Val His Ser Gly Phe Pro Ser Pro Ser Val Ala

660 665 670

Thr Thr Tyr Ser Ser Val Pro Pro Ala Phe Pro Ala Gln Val Ser Ser

675 680 685

Phe Pro Ser Ser Ala Val Thr Asn Ser Phe Ser Ala Ser Thr Gly Leu

690 695 700

Ser Asp Met Thr Ala Thr Phe Ser Pro Arg Thr Ile Glu Ile Cys

705 710 715

<210> 297

<211> 197

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 297

Met Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro Pro His Glu Arg
1 5 10 15

Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Arg Ser
20 25 30

Asp Asn Leu Thr Arg His Ile Arg Ile His Thr Gly Gln Lys Pro Phe
35 40 45

Gln Cys Arg Ile Cys Met Arg Asn Phe Ser His Ser Thr Thr Leu Thr
50 55 60

Asn His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile
65 70 75 80

Cys Gly Arg Lys Phe Ala Arg Ser Asp Asn Arg Lys Thr His Ile Arg
85 90 95

Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys

100 105 110

Phe Ser Thr Ser His Ser Leu Thr Glu His Ile Arg Ile His Thr Gly

115 120 125

Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Gln Ser

130 135 140

Ser Ser Leu Thr Arg His Ile Arg Thr His Thr Gly Glu Lys Pro Phe

145 150 155 160

Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Arg Ser Asp Asn Arg Lys

165 170 175

Thr His Thr Lys Ile His Leu Arg Gln Lys Asp Lys Lys Ala Asp Lys

180 185 190

Ser Val Val Ala Ser

195

<210> 298

<211> 197

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 298

Met Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro Pro His Glu Arg
1 5 10 15

Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Arg Ser
20 25 30

Asp Asn Leu Thr Arg His Ile Arg Ile His Thr Gly Gln Lys Pro Phe
35 40 45

Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Ser Asp Asn Leu Thr
50 55 60

Thr His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile
65 70 75 80

Cys Gly Arg Lys Phe Ala Arg Ser Asp Glu Arg Lys Arg His Ile Arg
85 90 95

Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys

100 105 110

Phe Ser Gln Ser Gly Asn Leu Thr Glu His Ile Arg Ile His Thr Gly

115 120 125

Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Thr Ser

130 135 140

Gly His Leu Thr Arg His Ile Arg Thr His Thr Gly Glu Lys Pro Phe

145 150 155 160

Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Gln Ser Ser Thr Arg Lys

165 170 175

Glu His Thr Lys Ile His Leu Arg Gln Lys Asp Lys Lys Ala Asp Lys

180 185 190

Ser Val Val Ala Ser

195

<210> 299

<211> 627

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 299

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

Ser Asp Pro Phe Gly Ser Phe Pro His Ser Pro Thr Met Asp Asn Tyr
20 25 30

Pro Lys Leu Glu Glu Met Met Leu Leu Ser Asn Gly Ala Pro Gln Phe
35 40 45

Leu Gly Ala Ala Gly Ala Pro Glu Gly Ser Gly Ser Asn Ser Ser Ser
50 55 60

Ser Ser Ser Gly Gly Gly Gly Gly Gly Gly Gly Gly Ser Asn Ser Ser
65 70 75 80

Ser Ser Ser Ser Thr Phe Asn Pro Gln Ala Asp Thr Gly Glu Gln Pro
85 90 95

Tyr Glu His Leu Thr Ala Glu Ser Phe Pro Asp Ile Ser Leu Asn Asn

100 105 110

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

115 120 125

Pro Pro Ile Thr Tyr Thr Gly Arg Phe Ser Leu Glu Pro Ala Pro Asn

130 135 140

Ser Gly Asn Thr Leu Trp Pro Glu Pro Leu Phe Ser Leu Val Ser Gly

145 150 155 160

Leu Val Ser Met Thr Asn Pro Pro Ala Ser Ser Ser Ser Ala Pro Ser

165 170 175

Pro Ala Ala Ser Ser Ala Ser Ala Ser Gln Ser Pro Pro Leu Ser Cys

180 185 190

Ala Val Pro Ser Asn Asp Ser Ser Pro Ile Tyr Ser Ala Ala Pro Thr

195 200 205

Phe Pro Thr Pro Asn Thr Asp Ile Phe Pro Glu Pro Gln Ser Gln Ala

210 215 220

Phe Pro Gly Ser Ala Gly Thr Ala Leu Gln Tyr Pro Pro Pro Ala Tyr
225 230 235 240

Pro Ala Ala Lys Gly Gly Phe Gln Val Pro Met Ile Pro Asp Tyr Leu
245 250 255

Phe Pro Gln Gln Gln Gly Asp Leu Gly Leu Gly Thr Pro Asp Gln Lys
260 265 270

Pro Phe Gln Gly Leu Glu Ser Arg Thr Gln Gln Pro Ser Leu Thr Pro
275 280 285

Leu Ser Thr Ile Lys Ala Phe Ala Thr Gln Ser Gly Ser Gln Asp Leu
290 295 300

Lys Ala Leu Asn Thr Ser Tyr Gln Ser Gln Leu Ile Lys Pro Ser Arg
305 310 315 320

Met Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro Pro His Glu Arg
325 330 335

Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Arg Ser

340 345 350

Asp Asn Leu Val Arg His Ile Arg Ile His Thr Gly Gln Lys Pro Phe

355 360 365

Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Glu Asp Asn Leu His

370 375 380

Thr His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile

385 390 395 400

Cys Gly Arg Lys Phe Ala Arg Ser Asp Glu Leu Val Arg His Ile Arg

405 410 415

Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys

420 425 430

Phe Ser Gln Ser Gly Asn Leu Thr Glu His Ile Arg Ile His Thr Gly

435 440 445

Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Thr Ser

450 455 460

Gly His Leu Val Arg His Ile Arg Thr His Thr Gly Glu Lys Pro Phe

465 470 475 480

Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Gln Asn Ser Thr Leu Thr

485 490 495

Glu His Thr Lys Ile His Leu Arg Gln Lys Asp Lys Lys Ala Asp Lys

500 505 510

Ser Val Val Ala Ser Ser Ala Thr Ser Ser Leu Ser Ser Tyr Pro Ser

515 520 525

Pro Val Ala Thr Ser Tyr Pro Ser Pro Val Thr Thr Ser Tyr Pro Ser

530 535 540

Pro Ala Thr Thr Ser Tyr Pro Ser Pro Val Pro Thr Ser Phe Ser Ser

545 550 555 560

Pro Gly Ser Ser Thr Tyr Pro Ser Pro Val His Ser Gly Phe Pro Ser

565 570 575

Pro Ser Val Ala Thr Thr Tyr Ser Ser Val Pro Pro Ala Phe Pro Ala

580 585 590

Gln Val Ser Ser Phe Pro Ser Ser Ala Val Thr Asn Ser Phe Ser Ala

595 600 605

Ser Thr Gly Leu Ser Asp Met Thr Ala Thr Phe Ser Pro Arg Thr Ile

610 615 620

Glu Ile Cys

625

<210> 300

<400> 300

000

<210> 301

<400> 301

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<210> 302

<400> 302

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<210> 303

<400> 303

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<210> 304

<400> 304

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<210> 305

<211> 753

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 305

Met Ala Pro Lys Lys Lys Arg Lys Val Gly Ile His Gly Val Pro Ala

1 5 10 15

Ala Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

20 25 30

Ser Phe Ser Arg Ser Asp Asn Leu Val Arg His Gln Arg Thr His Thr

35 40 45

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg

50 55 60

Glu Asp Asn Leu His Thr His Gln Arg Thr His Thr Gly Glu Lys Pro

65 70 75 80

Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Ser Asp Glu Leu

85 90 95

Val Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro

100 105 110

Glu Cys Gly Lys Ser Phe Ser Gln Ser Gly Asn Leu Thr Glu His Gln

115 120 125

Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

130 135 140

Ser Phe Ser Thr Ser Gly His Leu Val Arg His Gln Arg Thr His Thr

145 150 155 160

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln

165 170 175

Asn Ser Thr Leu Thr Glu His Gln Arg Thr His Thr Gly Lys Lys Thr

180 185 190

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

195 200 205

Lys Gly Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Leu Glu Glu Ala

210 215 220

Ser Gly Ser Gly Arg Ala Asp Ala Leu Asp Asp Phe Asp Leu Asp Met

225 230 235 240

Leu Gly Ser Asp Ala Leu Asp Asp Phe Asp Leu Asp Met Leu Gly Ser

245 250 255

Asp Ala Leu Asp Asp Phe Asp Leu Asp Met Leu Gly Ser Asp Ala Leu

260 265 270

Asp Asp Phe Asp Leu Asp Met Leu Ile Asn Ser Arg Ser Ser Gly Ser

275 280 285

Pro Lys Lys Lys Arg Lys Val Gly Ser Gln Tyr Leu Pro Asp Thr Asp

290 295 300

Asp Arg His Arg Ile Glu Glu Lys Arg Lys Arg Thr Tyr Glu Thr Phe

305 310 315 320

Lys Ser Ile Met Lys Lys Ser Pro Phe Ser Gly Pro Thr Asp Pro Arg

325 330 335

Pro Pro Pro Arg Arg Ile Ala Val Pro Ser Arg Ser Ser Ala Ser Val

340 345 350

Pro Lys Pro Ala Pro Gln Pro Tyr Pro Phe Thr Ser Ser Leu Ser Thr

355 360 365

Ile Asn Tyr Asp Glu Phe Pro Thr Met Val Phe Pro Ser Gly Gln Ile

370 375 380

Ser Gln Ala Ser Ala Leu Ala Pro Ala Pro Pro Gln Val Leu Pro Gln

385 390 395 400

Ala Pro Ala Pro Ala Pro Ala Pro Ala Met Val Ser Ala Leu Ala Gln

405 410 415

Ala Pro Ala Pro Val Pro Val Leu Ala Pro Gly Pro Pro Gln Ala Val

420 425 430

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

435 440 445

Glu Ala Leu Leu Gln Leu Gln Phe Asp Asp Glu Asp Leu Gly Ala Leu

450 455 460

Leu Gly Asn Ser Thr Asp Pro Ala Val Phe Thr Asp Leu Ala Ser Val

465 470 475 480

Asp Asn Ser Glu Phe Gln Gln Leu Leu Asn Gln Gly Ile Pro Val Ala

485 490 495

Pro His Thr Thr Glu Pro Met Leu Met Glu Tyr Pro Glu Ala Ile Thr

500 505 510

Arg Leu Val Thr Gly Ala Gln Arg Pro Pro Asp Pro Ala Pro Ala Pro

515 520 525

Leu Gly Ala Pro Gly Leu Pro Asn Gly Leu Leu Ser Gly Asp Glu Asp

530 535 540

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

545 550 555 560

Ser Gly Ser Arg Asp Ser Arg Glu Gly Met Phe Leu Pro Lys Pro Glu

565 570 575

Ala Gly Ser Ala Ile Ser Asp Val Phe Glu Gly Arg Glu Val Cys Gln

580 585 590

Pro Lys Arg Ile Arg Pro Phe His Pro Pro Gly Ser Pro Trp Ala Asn

595 600 605

Arg Pro Leu Pro Ala Ser Leu Ala Pro Thr Pro Thr Gly Pro Val His

610 615 620

Glu Pro Val Gly Ser Leu Thr Pro Ala Pro Val Pro Gln Pro Leu Asp

625 630 635 640

Pro Ala Pro Ala Val Thr Pro Glu Ala Ser His Leu Leu Glu Asp Pro

645 650 655

Asp Glu Glu Thr Ser Gln Ala Val Lys Ala Leu Arg Glu Met Ala Asp

660 665 670

Thr Val Ile Pro Gln Lys Glu Glu Ala Ala Ile Cys Gly Gln Met Asp

675 680 685

Leu Ser His Pro Pro Pro Arg Gly His Leu Asp Glu Leu Thr Thr Thr

690 695 700

Leu Glu Ser Met Thr Glu Asp Leu Asn Leu Asp Ser Pro Leu Thr Pro

705 710 715 720

Glu Leu Asn Glu Ile Leu Asp Thr Phe Leu Asn Asp Glu Cys Leu Leu

725 730 735

His Ala Met His Ile Ser Thr Gly Leu Ser Ile Phe Asp Thr Ser Leu

740 745 750

Phe

<210> 306

<211> 272

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 306

Met Ala Pro Lys Lys Lys Arg Lys Val Gly Ile His Gly Val Pro Ala
1 5 10 15

Ala Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys
20 25 30

Ser Phe Ser Arg Ser Asp Asn Leu Val Arg His Gln Arg Thr His Thr
35 40 45

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg
50 55 60

Glu Asp Asn Leu His Thr His Gln Arg Thr His Thr Gly Glu Lys Pro
65 70 75 80

Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Ser Asp Glu Leu
85 90 95

Val Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro

100 105 110

Glu Cys Gly Lys Ser Phe Ser Gln Ser Gly Asn Leu Thr Glu His Gln

115 120 125

Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

130 135 140

Ser Phe Ser Thr Ser Gly His Leu Val Arg His Gln Arg Thr His Thr

145 150 155 160

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln

165 170 175

Asn Ser Thr Leu Thr Glu His Gln Arg Thr His Thr Gly Lys Lys Thr

180 185 190

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

195 200 205

Lys Gly Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Leu Glu Asp Ala

210 215 220

Leu Asp Asp Phe Asp Leu Asp Met Leu Gly Ser Asp Ala Leu Asp Asp

225 230 235 240

Phe Asp Leu Asp Met Leu Gly Ser Asp Ala Leu Asp Asp Phe Asp Leu

245 250 255

Asp Met Leu Gly Ser Asp Ala Leu Asp Asp Phe Asp Leu Asp Met Leu

260 265 270

<210> 307

<211> 272

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 307

Met Ala Pro Lys Lys Lys Arg Lys Val Gly Ile His Gly Val Pro Ala

1 5 10 15

Ala Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

20 25 30

Ser Phe Ser Arg Ser Asp Asn Leu Val Arg His Gln Arg Thr His Thr

35 40 45

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg

50 55 60

Glu Asp Asn Leu His Thr His Gln Arg Thr His Thr Gly Glu Lys Pro

65 70 75 80

Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Ser Asp Glu Leu

85 90 95

Val Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro

100 105 110

Glu Cys Gly Lys Ser Phe Ser Gln Ser Gly Asn Leu Thr Glu His Gln

115 120 125

Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

130 135 140

Ser Phe Ser Thr Ser Gly His Leu Val Arg His Gln Arg Thr His Thr

145 150 155 160

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln

165 170 175

Asn Ser Thr Leu Thr Glu His Gln Arg Thr His Thr Gly Lys Lys Thr

180 185 190

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

195 200 205

Lys Gly Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Leu Glu Asp Ala

210 215 220

Leu Asp Asp Phe Asp Leu Asp Met Leu Gly Ser Asp Ala Leu Asp Asp

225 230 235 240

Phe Asp Leu Asp Met Leu Gly Ser Asp Ala Leu Asp Asp Phe Asp Leu

245 250 255

Asp Met Leu Gly Ser Asp Ala Leu Asp Asp Phe Asp Leu Asp Met Leu

260 265 270

<210> 308

<211> 272

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 308

Met Ala Pro Lys Lys Lys Arg Lys Val Gly Ile His Gly Val Pro Ala
1 5 10 15

Ala Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys
20 25 30

Ser Phe Ser Arg Ser Asp Asn Leu Val Arg His Gln Arg Thr His Thr
35 40 45

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg
50 55 60

Glu Asp Asn Leu His Thr His Gln Arg Thr His Thr Gly Glu Lys Pro
65 70 75 80

Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Ser Asp Glu Leu
85 90 95

Val Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro

100 105 110

Glu Cys Gly Lys Ser Phe Ser Gln Ser Gly Asn Leu Thr Glu His Gln

115 120 125

Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

130 135 140

Ser Phe Ser Thr Ser Gly His Leu Val Arg His Gln Arg Thr His Thr

145 150 155 160

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln

165 170 175

Asn Ser Thr Leu Thr Glu His Gln Arg Thr His Thr Gly Lys Lys Thr

180 185 190

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

195 200 205

Lys Gly Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Leu Glu Asp Ala

210 215 220

Leu Asp Asp Phe Asp Leu Asp Met Leu Gly Ser Asp Ala Leu Asp Asp

225 230 235 240

Phe Asp Leu Asp Met Leu Gly Ser Asp Ala Leu Asp Asp Phe Asp Leu

245 250 255

Asp Met Leu Gly Ser Asp Ala Leu Asp Asp Phe Asp Leu Asp Met Leu

260 265 270

<210> 309

<211> 753

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 309

Met Ala Pro Lys Lys Lys Arg Lys Val Gly Ile His Gly Val Pro Ala

1 5 10 15

Ala Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

20 25 30

Ser Phe Ser Arg Ser Asp Asn Leu Val Arg His Gln Arg Thr His Thr

35 40 45

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser His

50 55 60

Arg Thr Thr Leu Thr Asn His Gln Arg Thr His Thr Gly Glu Lys Pro

65 70 75 80

Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Glu Asp Asn Leu

85 90 95

His Thr His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro

100 105 110

Glu Cys Gly Lys Ser Phe Ser Thr Ser His Ser Leu Thr Glu His Gln

115 120 125

Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

130 135 140

Ser Phe Ser Gln Ser Ser Ser Leu Val Arg His Gln Arg Thr His Thr

145 150 155 160

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg
165 170 175

Glu Asp Asn Leu His Thr His Gln Arg Thr His Thr Gly Lys Lys Thr
180 185 190

Ser Lys Arg Pro Ala Ala Thr Lys Lys Ala Gly Gln Ala Lys Lys Lys
195 200 205

Lys Gly Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Leu Glu Glu Ala
210 215 220

Ser Gly Ser Gly Arg Ala Asp Ala Leu Asp Asp Phe Asp Leu Asp Met
225 230 235 240

Leu Gly Ser Asp Ala Leu Asp Asp Phe Asp Leu Asp Met Leu Gly Ser
245 250 255

Asp Ala Leu Asp Asp Phe Asp Leu Asp Met Leu Gly Ser Asp Ala Leu
260 265 270

Asp Asp Phe Asp Leu Asp Met Leu Ile Asn Ser Arg Ser Ser Gly Ser

275 280 285

Pro Lys Lys Lys Arg Lys Val Gly Ser Gln Tyr Leu Pro Asp Thr Asp

290 295 300

Asp Arg His Arg Ile Glu Glu Lys Arg Lys Arg Thr Tyr Glu Thr Phe

305 310 315 320

Lys Ser Ile Met Lys Lys Ser Pro Phe Ser Gly Pro Thr Asp Pro Arg

325 330 335

Pro Pro Pro Arg Arg Ile Ala Val Pro Ser Arg Ser Ser Ala Ser Val

340 345 350

Pro Lys Pro Ala Pro Gln Pro Tyr Pro Phe Thr Ser Ser Leu Ser Thr

355 360 365

Ile Asn Tyr Asp Glu Phe Pro Thr Met Val Phe Pro Ser Gly Gln Ile

370 375 380

Ser Gln Ala Ser Ala Leu Ala Pro Ala Pro Pro Gln Val Leu Pro Gln

385 390 395 400

Ala Pro Ala Pro Ala Pro Ala Pro Ala Met Val Ser Ala Leu Ala Gln

405 410 415

Ala Pro Ala Pro Val Pro Val Leu Ala Pro Gly Pro Pro Gln Ala Val

420 425 430

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

435 440 445

Glu Ala Leu Leu Gln Leu Gln Phe Asp Asp Glu Asp Leu Gly Ala Leu

450 455 460

Leu Gly Asn Ser Thr Asp Pro Ala Val Phe Thr Asp Leu Ala Ser Val

465 470 475 480

Asp Asn Ser Glu Phe Gln Gln Leu Leu Asn Gln Gly Ile Pro Val Ala

485 490 495

Pro His Thr Thr Glu Pro Met Leu Met Glu Tyr Pro Glu Ala Ile Thr

500 505 510

Arg Leu Val Thr Gly Ala Gln Arg Pro Pro Asp Pro Ala Pro Ala Pro

515 520 525

Leu Gly Ala Pro Gly Leu Pro Asn Gly Leu Leu Ser Gly Asp Glu Asp

530 535 540

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

545 550 555 560

Ser Gly Ser Arg Asp Ser Arg Glu Gly Met Phe Leu Pro Lys Pro Glu

565 570 575

Ala Gly Ser Ala Ile Ser Asp Val Phe Glu Gly Arg Glu Val Cys Gln

580 585 590

Pro Lys Arg Ile Arg Pro Phe His Pro Pro Gly Ser Pro Trp Ala Asn

595 600 605

Arg Pro Leu Pro Ala Ser Leu Ala Pro Thr Pro Thr Gly Pro Val His

610 615 620

Glu Pro Val Gly Ser Leu Thr Pro Ala Pro Val Pro Gln Pro Leu Asp

625 630 635 640

Pro Ala Pro Ala Val Thr Pro Glu Ala Ser His Leu Leu Glu Asp Pro

645 650 655

Asp Glu Glu Thr Ser Gln Ala Val Lys Ala Leu Arg Glu Met Ala Asp

660 665 670

Thr Val Ile Pro Gln Lys Glu Glu Ala Ala Ile Cys Gly Gln Met Asp

675 680 685

Leu Ser His Pro Pro Pro Arg Gly His Leu Asp Glu Leu Thr Thr Thr

690 695 700

Leu Glu Ser Met Thr Glu Asp Leu Asn Leu Asp Ser Pro Leu Thr Pro

705 710 715 720

Glu Leu Asn Glu Ile Leu Asp Thr Phe Leu Asn Asp Glu Cys Leu Leu

725 730 735

His Ala Met His Ile Ser Thr Gly Leu Ser Ile Phe Asp Thr Ser Leu

740 745 750

Phe

<210> 310

<211> 272

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 310

Met Ala Pro Lys Lys Lys Arg Lys Val Gly Ile His Gly Val Pro Ala
1 5 10 15

Ala Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys
20 25 30

Ser Phe Ser Arg Ser Asp Asn Leu Val Arg His Gln Arg Thr His Thr
35 40 45

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser His
50 55 60

Arg Thr Thr Leu Thr Asn His Gln Arg Thr His Thr Gly Glu Lys Pro
65 70 75 80

Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Glu Asp Asn Leu

85 90 95

His Thr His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro

100 105 110

Glu Cys Gly Lys Ser Phe Ser Thr Ser His Ser Leu Thr Glu His Gln

115 120 125

Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

130 135 140

Ser Phe Ser Gln Ser Ser Ser Leu Val Arg His Gln Arg Thr His Thr

145 150 155 160

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg

165 170 175

Glu Asp Asn Leu His Thr His Gln Arg Thr His Thr Gly Lys Lys Thr

180 185 190

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

195 200 205

Lys Gly Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Leu Glu Asp Ala

210 215 220

Leu Asp Asp Phe Asp Leu Asp Met Leu Gly Ser Asp Ala Leu Asp Asp

225 230 235 240

Phe Asp Leu Asp Met Leu Gly Ser Asp Ala Leu Asp Asp Phe Asp Leu

245 250 255

Asp Met Leu Gly Ser Asp Ala Leu Asp Asp Phe Asp Leu Asp Met Leu

260 265 270

<210> 311

<211> 837

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 311

Met Ala Pro Lys Lys Lys Arg Lys Val Gly Ile His Gly Val Pro Ala

1 5 10 15

Ala Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

20 25 30

Ser Phe Ser Arg Arg Asp Glu Leu Asn Val His Gln Arg Thr His Thr

35 40 45

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg

50 55 60

Ser Asp His Leu Thr Asn His Gln Arg Thr His Thr Gly Glu Lys Pro

65 70 75 80

Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Ser Asp Asp Leu

85 90 95

Val Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro

100 105 110

Glu Cys Gly Lys Ser Phe Ser Arg Ser Asp Asn Leu Val Arg His Gln

115 120 125

Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

130 135 140

Ser Phe Ser His Arg Thr Thr Leu Thr Asn His Gln Arg Thr His Thr

145 150 155 160

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg

165 170 175

Glu Asp Asn Leu His Thr His Gln Arg Thr His Thr Gly Glu Lys Pro

180 185 190

Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Thr Ser His Ser Leu

195 200 205

Thr Glu His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro

210 215 220

Glu Cys Gly Lys Ser Phe Ser Gln Ser Ser Ser Leu Val Arg His Gln

225 230 235 240

Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

245 250 255

Ser Phe Ser Arg Glu Asp Asn Leu His Thr His Gln Arg Thr His Thr

260 265 270

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

275 280 285

Ala Lys Lys Lys Lys Gly Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala

290 295 300

Leu Glu Glu Ala Ser Gly Ser Gly Arg Ala Asp Ala Leu Asp Asp Phe

305 310 315 320

Asp Leu Asp Met Leu Gly Ser Asp Ala Leu Asp Asp Phe Asp Leu Asp

325 330 335

Met Leu Gly Ser Asp Ala Leu Asp Asp Phe Asp Leu Asp Met Leu Gly

340 345 350

Ser Asp Ala Leu Asp Asp Phe Asp Leu Asp Met Leu Ile Asn Ser Arg

355 360 365

Ser Ser Gly Ser Pro Lys Lys Lys Arg Lys Val Gly Ser Gln Tyr Leu

370 375 380

Pro Asp Thr Asp Asp Arg His Arg Ile Glu Glu Lys Arg Lys Arg Thr

385 390 395 400

Tyr Glu Thr Phe Lys Ser Ile Met Lys Lys Ser Pro Phe Ser Gly Pro

405 410 415

Thr Asp Pro Arg Pro Pro Pro Arg Arg Ile Ala Val Pro Ser Arg Ser

420 425 430

Ser Ala Ser Val Pro Lys Pro Ala Pro Gln Pro Tyr Pro Phe Thr Ser

435 440 445

Ser Leu Ser Thr Ile Asn Tyr Asp Glu Phe Pro Thr Met Val Phe Pro

450 455 460

Ser Gly Gln Ile Ser Gln Ala Ser Ala Leu Ala Pro Ala Pro Pro Gln

465 470 475 480

Val Leu Pro Gln Ala Pro Ala Pro Ala Pro Ala Pro Ala Met Val Ser

485 490 495

Ala Leu Ala Gln Ala Pro Ala Pro Val Pro Val Leu Ala Pro Gly Pro

500 505 510

Pro Gln Ala Val Ala Pro Pro Ala Pro Lys Pro Thr Gln Ala Gly Glu

515 520 525

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

530 535 540

Leu Gly Ala Leu Leu Gly Asn Ser Thr Asp Pro Ala Val Phe Thr Asp

545 550 555 560

Leu Ala Ser Val Asp Asn Ser Glu Phe Gln Gln Leu Leu Asn Gln Gly

565 570 575

Ile Pro Val Ala Pro His Thr Thr Glu Pro Met Leu Met Glu Tyr Pro

580 585 590

Glu Ala Ile Thr Arg Leu Val Thr Gly Ala Gln Arg Pro Pro Asp Pro

595 600 605

Ala Pro Ala Pro Leu Gly Ala Pro Gly Leu Pro Asn Gly Leu Leu Ser

610 615 620

Gly Asp Glu Asp Phe Ser Ser Ile Ala Asp Met Asp Phe Ser Ala Leu

625 630 635 640

Leu Gly Ser Gly Ser Gly Ser Arg Asp Ser Arg Glu Gly Met Phe Leu

645 650 655

Pro Lys Pro Glu Ala Gly Ser Ala Ile Ser Asp Val Phe Glu Gly Arg

660 665 670

Glu Val Cys Gln Pro Lys Arg Ile Arg Pro Phe His Pro Pro Gly Ser

675 680 685

Pro Trp Ala Asn Arg Pro Leu Pro Ala Ser Leu Ala Pro Thr Pro Thr

690 695 700

Gly Pro Val His Glu Pro Val Gly Ser Leu Thr Pro Ala Pro Val Pro

705 710 715 720

Gln Pro Leu Asp Pro Ala Pro Ala Val Thr Pro Glu Ala Ser His Leu

725 730 735

Leu Glu Asp Pro Asp Glu Glu Thr Ser Gln Ala Val Lys Ala Leu Arg

740 745 750

Glu Met Ala Asp Thr Val Ile Pro Gln Lys Glu Glu Ala Ala Ile Cys

755 760 765

Gly Gln Met Asp Leu Ser His Pro Pro Pro Arg Gly His Leu Asp Glu

770 775 780

Leu Thr Thr Thr Leu Glu Ser Met Thr Glu Asp Leu Asn Leu Asp Ser

785 790 795 800

Pro Leu Thr Pro Glu Leu Asn Glu Ile Leu Asp Thr Phe Leu Asn Asp

805 810 815

Glu Cys Leu Leu His Ala Met His Ile Ser Thr Gly Leu Ser Ile Phe

820 825 830

Asp Thr Ser Leu Phe

835

<210> 312

<211> 356

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 312

Met Ala Pro Lys Lys Lys Arg Lys Val Gly Ile His Gly Val Pro Ala

1 5 10 15

Ala Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

20 25 30

Ser Phe Ser Arg Arg Asp Glu Leu Asn Val His Gln Arg Thr His Thr

35 40 45

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg

50 55 60

Ser Asp His Leu Thr Asn His Gln Arg Thr His Thr Gly Glu Lys Pro

65 70 75 80

Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Ser Asp Asp Leu

85 90 95

Val Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro

100 105 110

Glu Cys Gly Lys Ser Phe Ser Arg Ser Asp Asn Leu Val Arg His Gln

115 120 125

Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

130 135 140

Ser Phe Ser His Arg Thr Thr Leu Thr Asn His Gln Arg Thr His Thr

145 150 155 160

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg

165 170 175

Glu Asp Asn Leu His Thr His Gln Arg Thr His Thr Gly Glu Lys Pro

180 185 190

Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Thr Ser His Ser Leu

195 200 205

Thr Glu His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro

210 215 220

Glu Cys Gly Lys Ser Phe Ser Gln Ser Ser Ser Leu Val Arg His Gln

225 230 235 240

Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

245 250 255

Ser Phe Ser Arg Glu Asp Asn Leu His Thr His Gln Arg Thr His Thr

260 265 270

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

275 280 285

Ala Lys Lys Lys Lys Gly Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala

290 295 300

Leu Glu Asp Ala Leu Asp Asp Phe Asp Leu Asp Met Leu Gly Ser Asp

305 310 315 320

Ala Leu Asp Asp Phe Asp Leu Asp Met Leu Gly Ser Asp Ala Leu Asp

325 330 335

Asp Phe Asp Leu Asp Met Leu Gly Ser Asp Ala Leu Asp Asp Phe Asp

340 345 350

Leu Asp Met Leu

355

<210> 313

<211> 631

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 313

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

Ser Asp Pro Phe Gly Ser Phe Pro His Ser Pro Thr Met Asp Asn Tyr
20 25 30

Pro Lys Leu Glu Glu Met Met Leu Leu Ser Asn Gly Ala Pro Gln Phe
35 40 45

Leu Gly Ala Ala Gly Ala Pro Glu Gly Ser Gly Ser Asn Ser Ser Ser
50 55 60

Ser Ser Ser Gly Gly Gly Gly Gly Gly Gly Gly Gly Ser Asn Ser Ser
65 70 75 80

Ser Ser Ser Ser Thr Phe Asn Pro Gln Ala Asp Thr Gly Glu Gln Pro
85 90 95

Tyr Glu His Leu Thr Ala Glu Ser Phe Pro Asp Ile Ser Leu Asn Asn

100 105 110

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

115 120 125

Pro Pro Ile Thr Tyr Thr Gly Arg Phe Ser Leu Glu Pro Ala Pro Asn

130 135 140

Ser Gly Asn Thr Leu Trp Pro Glu Pro Leu Phe Ser Leu Val Ser Gly

145 150 155 160

Leu Val Ser Met Thr Asn Pro Pro Ala Ser Ser Ser Ser Ala Pro Ser

165 170 175

Pro Ala Ala Ser Ser Ala Ser Ala Ser Gln Ser Pro Pro Leu Ser Cys

180 185 190

Ala Val Pro Ser Asn Asp Ser Ser Pro Ile Tyr Ser Ala Ala Pro Thr

195 200 205

Phe Pro Thr Pro Asn Thr Asp Ile Phe Pro Glu Pro Gln Ser Gln Ala

210 215 220

Phe Pro Gly Ser Ala Gly Thr Ala Leu Gln Tyr Pro Pro Pro Ala Tyr
225 230 235 240

Pro Ala Ala Lys Gly Gly Phe Gln Val Pro Met Ile Pro Asp Tyr Leu
245 250 255

Phe Pro Gln Gln Gln Gly Asp Leu Gly Leu Gly Thr Pro Asp Gln Lys
260 265 270

Pro Phe Gln Gly Leu Glu Ser Arg Thr Gln Gln Pro Ser Leu Thr Pro
275 280 285

Leu Ser Thr Ile Lys Ala Phe Ala Thr Gln Ser Gly Ser Gln Asp Leu
290 295 300

Lys Ala Leu Asn Thr Ser Tyr Gln Ser Gln Leu Ile Lys Pro Ser Arg
305 310 315 320

Met Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro Pro His Glu Arg
325 330 335

Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Arg Ser

340 345 350

Asp Asn Leu Val Arg His Ile Arg Ile His Thr Gly Gln Lys Pro Phe

355 360 365

Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Glu Asp Asn Leu His

370 375 380

Thr His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile

385 390 395 400

Cys Gly Arg Lys Phe Ala Arg Ser Asp Glu Leu Val Arg His Thr Lys

405 410 415

Ile His Leu Arg Gln Lys Asp Arg Pro Tyr Ala Cys Pro Val Glu Ser

420 425 430

Cys Asp Arg Arg Phe Ser Gln Ser Gly Asn Leu Thr Glu His Ile Arg

435 440 445

Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Asn

450 455 460

Phe Ser Thr Ser Gly His Leu Val Arg His Ile Arg Thr His Thr Gly

465 470 475 480

Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Gln Asn

485 490 495

Ser Thr Leu Thr Glu His Thr Lys Ile His Leu Arg Gln Lys Asp Lys

500 505 510

Lys Ala Asp Lys Ser Val Val Ala Ser Ser Ala Thr Ser Ser Leu Ser

515 520 525

Ser Tyr Pro Ser Pro Val Ala Thr Ser Tyr Pro Ser Pro Val Thr Thr

530 535 540

Ser Tyr Pro Ser Pro Ala Thr Thr Ser Tyr Pro Ser Pro Val Pro Thr

545 550 555 560

Ser Phe Ser Ser Pro Gly Ser Ser Thr Tyr Pro Ser Pro Val His Ser

565 570 575

Gly Phe Pro Ser Pro Ser Val Ala Thr Thr Tyr Ser Ser Val Pro Pro

580 585 590

Ala Phe Pro Ala Gln Val Ser Ser Phe Pro Ser Ser Ala Val Thr Asn

595 600 605

Ser Phe Ser Ala Ser Thr Gly Leu Ser Asp Met Thr Ala Thr Phe Ser

610 615 620

Pro Arg Thr Ile Glu Ile Cys

625 630

<210> 314

<211> 631

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 314

Met Ala Ala Ala Lys Ala Glu Met Gln Leu Met Ser Pro Leu Gln Ile

1 5 10 15

Ser Asp Pro Phe Gly Ser Phe Pro His Ser Pro Thr Met Asp Asn Tyr

20 25 30

Pro Lys Leu Glu Glu Met Met Leu Leu Ser Asn Gly Ala Pro Gln Phe

35 40 45

Leu Gly Ala Ala Gly Ala Pro Glu Gly Ser Gly Ser Asn Ser Ser Ser

50 55 60

Ser Ser Ser Gly Gly Gly Gly Gly Gly Gly Gly Gly Ser Asn Ser Ser

65 70 75 80

Ser Ser Ser Ser Thr Phe Asn Pro Gln Ala Asp Thr Gly Glu Gln Pro

85 90 95

Tyr Glu His Leu Thr Ala Glu Ser Phe Pro Asp Ile Ser Leu Asn Asn

100 105 110

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

115 120 125

Pro Pro Ile Thr Tyr Thr Gly Arg Phe Ser Leu Glu Pro Ala Pro Asn

130 135 140

Ser Gly Asn Thr Leu Trp Pro Glu Pro Leu Phe Ser Leu Val Ser Gly

145 150 155 160

Leu Val Ser Met Thr Asn Pro Pro Ala Ser Ser Ser Ser Ala Pro Ser

165 170 175

Pro Ala Ala Ser Ser Ala Ser Ala Ser Gln Ser Pro Pro Leu Ser Cys

180 185 190

Ala Val Pro Ser Asn Asp Ser Ser Pro Ile Tyr Ser Ala Ala Pro Thr

195 200 205

Phe Pro Thr Pro Asn Thr Asp Ile Phe Pro Glu Pro Gln Ser Gln Ala

210 215 220

Phe Pro Gly Ser Ala Gly Thr Ala Leu Gln Tyr Pro Pro Pro Ala Tyr

225 230 235 240

Pro Ala Ala Lys Gly Gly Phe Gln Val Pro Met Ile Pro Asp Tyr Leu

245 250 255

Phe Pro Gln Gln Gln Gly Asp Leu Gly Leu Gly Thr Pro Asp Gln Lys

260 265 270

Pro Phe Gln Gly Leu Glu Ser Arg Thr Gln Gln Pro Ser Leu Thr Pro

275 280 285

Leu Ser Thr Ile Lys Ala Phe Ala Thr Gln Ser Gly Ser Gln Asp Leu

290 295 300

Lys Ala Leu Asn Thr Ser Tyr Gln Ser Gln Leu Ile Lys Pro Ser Arg

305 310 315 320

Met Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro Pro His Glu Arg

325 330 335

Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Arg Ser

340 345 350

Asp Asn Leu Val Arg His Ile Arg Ile His Thr Gly Gln Lys Pro Phe

355 360 365

Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Glu Asp Asn Leu His

370 375 380

Thr His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile

385 390 395 400

Cys Gly Arg Lys Phe Ala Arg Ser Asp Glu Leu Val Arg His Thr Lys

405 410 415

Ile His Leu Arg Gln Lys Asp Arg Pro Tyr Ala Cys Pro Val Glu Ser

420 425 430

Cys Asp Arg Arg Phe Ser Gln Ser Gly Asn Leu Thr Glu His Ile Arg

435 440 445

Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Asn

450 455 460

Phe Ser Thr Ser Gly His Leu Val Arg His Ile Arg Thr His Thr Gly

465 470 475 480

Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Gln Asn

485 490 495

Ser Thr Leu Thr Glu His Thr Lys Ile His Leu Arg Gln Lys Asp Lys

500 505 510

Lys Ala Asp Lys Ser Val Val Ala Ser Ser Ala Thr Ser Ser Leu Ser

515 520 525

Ser Tyr Pro Ser Pro Val Ala Thr Ser Tyr Pro Ser Pro Val Thr Thr

530 535 540

Ser Tyr Pro Ser Pro Ala Thr Thr Ser Tyr Pro Ser Pro Val Pro Thr

545 550 555 560

Ser Phe Ser Ser Pro Gly Ser Ser Thr Tyr Pro Ser Pro Val His Ser

565 570 575

Gly Phe Pro Ser Pro Ser Val Ala Thr Thr Tyr Ser Ser Val Pro Pro

580 585 590

Ala Phe Pro Ala Gln Val Ser Ser Phe Pro Ser Ser Ala Val Thr Asn

595 600 605

Ser Phe Ser Ala Ser Thr Gly Leu Ser Asp Met Thr Ala Thr Phe Ser

610 615 620

Pro Arg Thr Ile Glu Ile Cys

625 630

<210> 315

<211> 394

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 315

Met Ala Ala Asp His Leu Met Leu Ala Glu Gly Tyr Arg Leu Val Gln
1 5 10 15

Arg Pro Pro Ser Ala Ala Ala Ala His Gly Pro His Ala Leu Arg Thr
20 25 30

Leu Pro Pro Tyr Ala Gly Pro Gly Leu Asp Ser Gly Leu Arg Pro Arg
35 40 45

Gly Ala Pro Leu Gly Pro Pro Pro Pro Arg Gln Pro Gly Ala Leu Ala
50 55 60

Tyr Gly Ala Phe Gly Pro Pro Ser Ser Phe Gln Pro Phe Pro Ala Val
65 70 75 80

Pro Pro Pro Ala Ala Gly Ile Ala His Leu Gln Pro Val Ala Thr Pro
85 90 95

Tyr Pro Gly Arg Ala Ala Ala Pro Pro Asn Ala Pro Gly Gly Pro Pro

100 105 110

Gly Pro Gln Pro Ala Pro Ser Ala Ala Ala Pro Pro Pro Pro Ala His

115 120 125

Ala Leu Gly Gly Met Asp Ala Glu Leu Ile Asp Glu Glu Ala Leu Thr

130 135 140

Ser Leu Glu Leu Glu Leu Gly Leu His Arg Val Arg Glu Leu Pro Glu

145 150 155 160

Leu Phe Leu Gly Gln Ser Glu Phe Asp Cys Phe Ser Asp Leu Gly Ser

165 170 175

Ala Pro Pro Ala Gly Ser Val Ser Cys Gly Gly Ser Gly Gly Gly Ser

180 185 190

Gly Gln Ser Gln Leu Ile Lys Pro Ser Arg Met Arg Lys Tyr Pro Asn

195 200 205

Arg Pro Ser Lys Thr Pro Pro His Glu Arg Pro Tyr Ala Cys Pro Val

210 215 220

Glu Ser Cys Asp Arg Arg Phe Ser Arg Ser Asp Asn Leu Val Arg His

225 230 235 240

Ile Arg Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met

245 250 255

Arg Asn Phe Ser Arg Glu Asp Asn Leu His Thr His Ile Arg Thr His

260 265 270

Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala

275 280 285

Arg Ser Asp Glu Leu Val Arg His Thr Lys Ile His Leu Arg Gln Lys

290 295 300

Asp Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser

305 310 315 320

Gln Ser Gly Asn Leu Thr Glu His Ile Arg Ile His Thr Gly Gln Lys

325 330 335

Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Thr Ser Gly His

340 345 350

Leu Val Arg His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys

355 360 365

Asp Ile Cys Gly Arg Lys Phe Ala Gln Asn Ser Thr Leu Thr Glu His

370 375 380

Thr Lys Ile His Leu Arg Gln Lys Asp Lys

385 390

<210> 316

<211> 580

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 316

Met Ala Ala Asp His Leu Met Leu Ala Glu Gly Tyr Arg Leu Val Gln

1 5 10 15

Arg Pro Pro Ser Ala Ala Ala Ala His Gly Pro His Ala Leu Arg Thr

20 25 30

Leu Pro Pro Tyr Ala Gly Pro Gly Leu Asp Ser Gly Leu Arg Pro Arg

35 40 45

Gly Ala Pro Leu Gly Pro Pro Pro Pro Arg Gln Pro Gly Ala Leu Ala

50 55 60

Tyr Gly Ala Phe Gly Pro Pro Ser Ser Phe Gln Pro Phe Pro Ala Val

65 70 75 80

Pro Pro Pro Ala Ala Gly Ile Ala His Leu Gln Pro Val Ala Thr Pro

85 90 95

Tyr Pro Gly Arg Ala Ala Ala Pro Pro Asn Ala Pro Gly Gly Pro Pro

100 105 110

Gly Pro Gln Pro Ala Pro Ser Ala Ala Ala Pro Pro Pro Pro Ala His

115 120 125

Ala Leu Gly Gly Met Asp Ala Glu Leu Ile Asp Glu Glu Ala Leu Thr

130 135 140

Ser Leu Glu Leu Glu Leu Gly Leu His Arg Val Arg Glu Leu Pro Glu

145 150 155 160

Leu Phe Leu Gly Gln Ser Glu Phe Asp Cys Phe Ser Asp Leu Gly Ser
165 170 175

Ala Pro Pro Ala Gly Ser Val Ser Cys Gly Gly Ser Gly Gly Gly Ser
180 185 190

Gly Gln Ser Gln Leu Ile Lys Pro Ser Arg Met Arg Lys Tyr Pro Asn
195 200 205

Arg Pro Ser Lys Thr Pro Pro His Glu Arg Pro Tyr Ala Cys Pro Val
210 215 220

Glu Ser Cys Asp Arg Arg Phe Ser Arg Ser Asp Asn Leu Val Arg His
225 230 235 240

Ile Arg Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met
245 250 255

Arg Asn Phe Ser Arg Glu Asp Asn Leu His Thr His Ile Arg Thr His
260 265 270

Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala

275 280 285

Arg Ser Asp Glu Leu Val Arg His Thr Lys Ile His Leu Arg Gln Lys

290 295 300

Asp Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser

305 310 315 320

Gln Ser Gly Asn Leu Thr Glu His Ile Arg Ile His Thr Gly Gln Lys

325 330 335

Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Thr Ser Gly His

340 345 350

Leu Val Arg His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys

355 360 365

Asp Ile Cys Gly Arg Lys Phe Ala Gln Asn Ser Thr Leu Thr Glu His

370 375 380

Thr Lys Ile His Leu Arg Gln Lys Asp Lys Leu Glu Met Ala Asp His

385 390 395 400

Leu Met Leu Ala Glu Gly Tyr Arg Leu Val Gln Arg Pro Pro Ser Ala

405 410 415

Ala Ala Ala His Gly Pro His Ala Leu Arg Thr Leu Pro Pro Tyr Ala

420 425 430

Gly Pro Gly Leu Asp Ser Gly Leu Arg Pro Arg Gly Ala Pro Leu Gly

435 440 445

Pro Pro Pro Pro Arg Gln Pro Gly Ala Leu Ala Tyr Gly Ala Phe Gly

450 455 460

Pro Pro Ser Ser Phe Gln Pro Phe Pro Ala Val Pro Pro Pro Ala Ala

465 470 475 480

Gly Ile Ala His Leu Gln Pro Val Ala Thr Pro Tyr Pro Gly Arg Ala

485 490 495

Ala Ala Pro Pro Asn Ala Pro Gly Gly Pro Pro Gly Pro Gln Pro Ala

500 505 510

Pro Ser Ala Ala Ala Pro Pro Pro Pro Ala His Ala Leu Gly Gly Met

515 520 525

Asp Ala Glu Leu Ile Asp Glu Glu Ala Leu Thr Ser Leu Glu Leu Glu

530 535 540

Leu Gly Leu His Arg Val Arg Glu Leu Pro Glu Leu Phe Leu Gly Gln

545 550 555 560

Ser Glu Phe Asp Cys Phe Ser Asp Leu Gly Ser Ala Pro Pro Ala Gly

565 570 575

Ser Val Ser Cys

580

<210> 317

<211> 627

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 317

Met Ala Ala Ala Lys Ala Glu Met Gln Leu Met Ser Pro Leu Gln Ile

1 5 10 15

Ser Asp Pro Phe Gly Ser Phe Pro His Ser Pro Thr Met Asp Asn Tyr

20 25 30

Pro Lys Leu Glu Glu Met Met Leu Leu Ser Asn Gly Ala Pro Gln Phe

35 40 45

Leu Gly Ala Ala Gly Ala Pro Glu Gly Ser Gly Ser Asn Ser Ser Ser

50 55 60

Ser Ser Ser Gly Gly Gly Gly Gly Gly Gly Gly Gly Ser Asn Ser Ser

65 70 75 80

Ser Ser Ser Ser Thr Phe Asn Pro Gln Ala Asp Thr Gly Glu Gln Pro

85 90 95

Tyr Glu His Leu Thr Ala Glu Ser Phe Pro Asp Ile Ser Leu Asn Asn

100 105 110

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

115 120 125

Pro Pro Ile Thr Tyr Thr Gly Arg Phe Ser Leu Glu Pro Ala Pro Asn

130 135 140

Ser Gly Asn Thr Leu Trp Pro Glu Pro Leu Phe Ser Leu Val Ser Gly

145 150 155 160

Leu Val Ser Met Thr Asn Pro Pro Ala Ser Ser Ser Ser Ala Pro Ser

165 170 175

Pro Ala Ala Ser Ser Ala Ser Ala Ser Gln Ser Pro Pro Leu Ser Cys

180 185 190

Ala Val Pro Ser Asn Asp Ser Ser Pro Ile Tyr Ser Ala Ala Pro Thr

195 200 205

Phe Pro Thr Pro Asn Thr Asp Ile Phe Pro Glu Pro Gln Ser Gln Ala

210 215 220

Phe Pro Gly Ser Ala Gly Thr Ala Leu Gln Tyr Pro Pro Pro Ala Tyr

225 230 235 240

Pro Ala Ala Lys Gly Gly Phe Gln Val Pro Met Ile Pro Asp Tyr Leu

245 250 255

Phe Pro Gln Gln Gln Gly Asp Leu Gly Leu Gly Thr Pro Asp Gln Lys

260 265 270

Pro Phe Gln Gly Leu Glu Ser Arg Thr Gln Gln Pro Ser Leu Thr Pro
275 280 285

Leu Ser Thr Ile Lys Ala Phe Ala Thr Gln Ser Gly Ser Gln Asp Leu
290 295 300

Lys Ala Leu Asn Thr Ser Tyr Gln Ser Gln Leu Ile Lys Pro Ser Arg
305 310 315 320

Met Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro Pro His Glu Arg
325 330 335

Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Arg Ser
340 345 350

Asp Asn Leu Val Arg His Ile Arg Ile His Thr Gly Gln Lys Pro Phe
355 360 365

Gln Cys Arg Ile Cys Met Arg Asn Phe Ser His Arg Thr Thr Leu Thr
370 375 380

Asn His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile

385 390 395 400

Cys Gly Arg Lys Phe Ala Arg Glu Asp Asn Leu His Thr His Ile Arg

405 410 415

Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys

420 425 430

Phe Ser Thr Ser His Ser Leu Thr Glu His Ile Arg Ile His Thr Gly

435 440 445

Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Gln Ser

450 455 460

Ser Ser Leu Val Arg His Ile Arg Thr His Thr Gly Glu Lys Pro Phe

465 470 475 480

Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Arg Glu Asp Asn Leu His

485 490 495

Thr His Thr Lys Ile His Leu Arg Gln Lys Asp Lys Lys Ala Asp Lys

500 505 510

Ser Val Val Ala Ser Ser Ala Thr Ser Ser Leu Ser Ser Tyr Pro Ser

515 520 525

Pro Val Ala Thr Ser Tyr Pro Ser Pro Val Thr Thr Ser Tyr Pro Ser

530 535 540

Pro Ala Thr Thr Ser Tyr Pro Ser Pro Val Pro Thr Ser Phe Ser Ser

545 550 555 560

Pro Gly Ser Ser Thr Tyr Pro Ser Pro Val His Ser Gly Phe Pro Ser

565 570 575

Pro Ser Val Ala Thr Thr Tyr Ser Ser Val Pro Pro Ala Phe Pro Ala

580 585 590

Gln Val Ser Ser Phe Pro Ser Ser Ala Val Thr Asn Ser Phe Ser Ala

595 600 605

Ser Thr Gly Leu Ser Asp Met Thr Ala Thr Phe Ser Pro Arg Thr Ile

610 615 620

Glu Ile Cys

625

<210> 318

<211> 394

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 318

Met Ala Ala Asp His Leu Met Leu Ala Glu Gly Tyr Arg Leu Val Gln
1 5 10 15

Arg Pro Pro Ser Ala Ala Ala Ala His Gly Pro His Ala Leu Arg Thr
20 25 30

Leu Pro Pro Tyr Ala Gly Pro Gly Leu Asp Ser Gly Leu Arg Pro Arg
35 40 45

Gly Ala Pro Leu Gly Pro Pro Pro Pro Arg Gln Pro Gly Ala Leu Ala
50 55 60

Tyr Gly Ala Phe Gly Pro Pro Ser Ser Phe Gln Pro Phe Pro Ala Val
65 70 75 80

Pro Pro Pro Ala Ala Gly Ile Ala His Leu Gln Pro Val Ala Thr Pro

85 90 95

Tyr Pro Gly Arg Ala Ala Ala Pro Pro Asn Ala Pro Gly Gly Pro Pro

100 105 110

Gly Pro Gln Pro Ala Pro Ser Ala Ala Ala Pro Pro Pro Pro Ala His

115 120 125

Ala Leu Gly Gly Met Asp Ala Glu Leu Ile Asp Glu Glu Ala Leu Thr

130 135 140

Ser Leu Glu Leu Glu Leu Gly Leu His Arg Val Arg Glu Leu Pro Glu

145 150 155 160

Leu Phe Leu Gly Gln Ser Glu Phe Asp Cys Phe Ser Asp Leu Gly Ser

165 170 175

Ala Pro Pro Ala Gly Ser Val Ser Cys Gly Gly Ser Gly Gly Gly Ser

180 185 190

Gly Gln Ser Gln Leu Ile Lys Pro Ser Arg Met Arg Lys Tyr Pro Asn

195 200 205

Arg Pro Ser Lys Thr Pro Pro His Glu Arg Pro Tyr Ala Cys Pro Val

210 215 220

Glu Ser Cys Asp Arg Arg Phe Ser Arg Ser Asp Asn Leu Val Arg His

225 230 235 240

Ile Arg Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met

245 250 255

Arg Asn Phe Ser His Arg Thr Thr Leu Thr Asn His Ile Arg Thr His

260 265 270

Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala

275 280 285

Arg Glu Asp Asn Leu His Thr His Thr Lys Ile His Leu Arg Gln Lys

290 295 300

Asp Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser

305 310 315 320

Thr Ser His Ser Leu Thr Glu His Ile Arg Ile His Thr Gly Gln Lys

325 330 335

Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Gln Ser Ser Ser
340 345 350

Leu Val Arg His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys
355 360 365

Asp Ile Cys Gly Arg Lys Phe Ala Arg Glu Asp Asn Leu His Thr His
370 375 380

Thr Lys Ile His Leu Arg Gln Lys Asp Lys
385 390

<210> 319

<211> 580

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 319

Met Ala Ala Asp His Leu Met Leu Ala Glu Gly Tyr Arg Leu Val Gln
1 5 10 15

Arg Pro Pro Ser Ala Ala Ala Ala His Gly Pro His Ala Leu Arg Thr

20 25 30

Leu Pro Pro Tyr Ala Gly Pro Gly Leu Asp Ser Gly Leu Arg Pro Arg

35 40 45

Gly Ala Pro Leu Gly Pro Pro Pro Pro Arg Gln Pro Gly Ala Leu Ala

50 55 60

Tyr Gly Ala Phe Gly Pro Pro Ser Ser Phe Gln Pro Phe Pro Ala Val

65 70 75 80

Pro Pro Pro Ala Ala Gly Ile Ala His Leu Gln Pro Val Ala Thr Pro

85 90 95

Tyr Pro Gly Arg Ala Ala Ala Pro Pro Asn Ala Pro Gly Gly Pro Pro

100 105 110

Gly Pro Gln Pro Ala Pro Ser Ala Ala Ala Pro Pro Pro Pro Ala His

115 120 125

Ala Leu Gly Gly Met Asp Ala Glu Leu Ile Asp Glu Glu Ala Leu Thr

130 135 140

Ser Leu Glu Leu Glu Leu Gly Leu His Arg Val Arg Glu Leu Pro Glu
145 150 155 160

Leu Phe Leu Gly Gln Ser Glu Phe Asp Cys Phe Ser Asp Leu Gly Ser
165 170 175

Ala Pro Pro Ala Gly Ser Val Ser Cys Gly Gly Ser Gly Gly Gly Ser
180 185 190

Gly Gln Ser Gln Leu Ile Lys Pro Ser Arg Met Arg Lys Tyr Pro Asn
195 200 205

Arg Pro Ser Lys Thr Pro Pro His Glu Arg Pro Tyr Ala Cys Pro Val
210 215 220

Glu Ser Cys Asp Arg Arg Phe Ser Arg Ser Asp Asn Leu Val Arg His
225 230 235 240

Ile Arg Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met
245 250 255

Arg Asn Phe Ser His Arg Thr Thr Leu Thr Asn His Ile Arg Thr His

260 265 270

Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala

275 280 285

Arg Glu Asp Asn Leu His Thr His Thr Lys Ile His Leu Arg Gln Lys

290 295 300

Asp Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser

305 310 315 320

Thr Ser His Ser Leu Thr Glu His Ile Arg Ile His Thr Gly Gln Lys

325 330 335

Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Gln Ser Ser Ser

340 345 350

Leu Val Arg His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys

355 360 365

Asp Ile Cys Gly Arg Lys Phe Ala Arg Glu Asp Asn Leu His Thr His

370 375 380

Thr Lys Ile His Leu Arg Gln Lys Asp Lys Leu Glu Met Ala Asp His

385 390 395 400

Leu Met Leu Ala Glu Gly Tyr Arg Leu Val Gln Arg Pro Pro Ser Ala

405 410 415

Ala Ala Ala His Gly Pro His Ala Leu Arg Thr Leu Pro Pro Tyr Ala

420 425 430

Gly Pro Gly Leu Asp Ser Gly Leu Arg Pro Arg Gly Ala Pro Leu Gly

435 440 445

Pro Pro Pro Pro Arg Gln Pro Gly Ala Leu Ala Tyr Gly Ala Phe Gly

450 455 460

Pro Pro Ser Ser Phe Gln Pro Phe Pro Ala Val Pro Pro Pro Ala Ala

465 470 475 480

Gly Ile Ala His Leu Gln Pro Val Ala Thr Pro Tyr Pro Gly Arg Ala

485 490 495

Ala Ala Pro Pro Asn Ala Pro Gly Gly Pro Pro Gly Pro Gln Pro Ala

500 505 510

Pro Ser Ala Ala Ala Pro Pro Pro Pro Ala His Ala Leu Gly Gly Met

515 520 525

Asp Ala Glu Leu Ile Asp Glu Glu Ala Leu Thr Ser Leu Glu Leu Glu

530 535 540

Leu Gly Leu His Arg Val Arg Glu Leu Pro Glu Leu Phe Leu Gly Gln

545 550 555 560

Ser Glu Phe Asp Cys Phe Ser Asp Leu Gly Ser Ala Pro Pro Ala Gly

565 570 575

Ser Val Ser Cys

580

<210> 320

<211> 719

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 320

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

Ser Asp Pro Phe Gly Ser Phe Pro His Ser Pro Thr Met Asp Asn Tyr
20 25 30

Pro Lys Leu Glu Glu Met Met Leu Leu Ser Asn Gly Ala Pro Gln Phe
35 40 45

Leu Gly Ala Ala Gly Ala Pro Glu Gly Ser Gly Ser Asn Ser Ser Ser
50 55 60

Ser Ser Ser Gly Gly Gly Gly Gly Gly Gly Gly Gly Ser Asn Ser Ser
65 70 75 80

Ser Ser Ser Ser Thr Phe Asn Pro Gln Ala Asp Thr Gly Glu Gln Pro
85 90 95

Tyr Glu His Leu Thr Ala Glu Ser Phe Pro Asp Ile Ser Leu Asn Asn
100 105 110

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

Pro Pro Ile Thr Tyr Thr Gly Arg Phe Ser Leu Glu Pro Ala Pro Asn

130 135 140

Ser Gly Asn Thr Leu Trp Pro Glu Pro Leu Phe Ser Leu Val Ser Gly

145 150 155 160

Leu Val Ser Met Thr Asn Pro Pro Ala Ser Ser Ser Ser Ala Pro Ser

165 170 175

Pro Ala Ala Ser Ser Ala Ser Ala Ser Gln Ser Pro Pro Leu Ser Cys

180 185 190

Ala Val Pro Ser Asn Asp Ser Ser Pro Ile Tyr Ser Ala Ala Pro Thr

195 200 205

Phe Pro Thr Pro Asn Thr Asp Ile Phe Pro Glu Pro Gln Ser Gln Ala

210 215 220

Phe Pro Gly Ser Ala Gly Thr Ala Leu Gln Tyr Pro Pro Pro Ala Tyr

225 230 235 240

Pro Ala Ala Lys Gly Gly Phe Gln Val Pro Met Ile Pro Asp Tyr Leu

245 250 255

Phe Pro Gln Gln Gln Gly Asp Leu Gly Leu Gly Thr Pro Asp Gln Lys
260 265 270

Pro Phe Gln Gly Leu Glu Ser Arg Thr Gln Gln Pro Ser Leu Thr Pro
275 280 285

Leu Ser Thr Ile Lys Ala Phe Ala Thr Gln Ser Gly Ser Gln Asp Leu
290 295 300

Lys Ala Leu Asn Thr Ser Tyr Gln Ser Gln Leu Ile Lys Pro Ser Arg
305 310 315 320

Met Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro Pro His Glu Arg
325 330 335

Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Arg Arg
340 345 350

Asp Glu Leu Asn Val His Ile Arg Ile His Thr Gly Gln Lys Pro Phe
355 360 365

Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Ser Asp His Leu Thr

370 375 380

Asn His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile

385 390 395 400

Cys Gly Arg Lys Phe Ala Arg Ser Asp Asp Leu Val Arg His Thr Lys

405 410 415

Ile His Leu Arg Gln Lys Asp Arg Pro Tyr Ala Cys Pro Val Glu Ser

420 425 430

Cys Asp Arg Arg Phe Ser Arg Ser Asp Asn Leu Val Arg His Ile Arg

435 440 445

Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Asn

450 455 460

Phe Ser His Arg Thr Thr Leu Thr Asn His Ile Arg Thr His Thr Gly

465 470 475 480

Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Arg Glu

485 490 495

Asp Asn Leu His Thr His Thr Lys Ile His Leu Arg Gln Lys Asp Arg

500 505 510

Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Thr Ser

515 520 525

His Ser Leu Thr Glu His Ile Arg Ile His Thr Gly Gln Lys Pro Phe

530 535 540

Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Gln Ser Ser Ser Leu Val

545 550 555 560

Arg His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile

565 570 575

Cys Gly Arg Lys Phe Ala Arg Glu Asp Asn Leu His Thr His Thr Lys

580 585 590

Ile His Leu Arg Gln Lys Asp Lys Lys Ala Asp Lys Ser Val Val Ala

595 600 605

Ser Ser Ala Thr Ser Ser Leu Ser Ser Tyr Pro Ser Pro Val Ala Thr

610 615 620

Ser Tyr Pro Ser Pro Val Thr Thr Ser Tyr Pro Ser Pro Ala Thr Thr

625 630 635 640

Ser Tyr Pro Ser Pro Val Pro Thr Ser Phe Ser Ser Pro Gly Ser Ser

645 650 655

Thr Tyr Pro Ser Pro Val His Ser Gly Phe Pro Ser Pro Ser Val Ala

660 665 670

Thr Thr Tyr Ser Ser Val Pro Pro Ala Phe Pro Ala Gln Val Ser Ser

675 680 685

Phe Pro Ser Ser Ala Val Thr Asn Ser Phe Ser Ala Ser Thr Gly Leu

690 695 700

Ser Asp Met Thr Ala Thr Phe Ser Pro Arg Thr Ile Glu Ile Cys

705 710 715

<210> 321

<211> 719

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 321

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

Ser Asp Pro Phe Gly Ser Phe Pro His Ser Pro Thr Met Asp Asn Tyr
20 25 30

Pro Lys Leu Glu Glu Met Met Leu Leu Ser Asn Gly Ala Pro Gln Phe
35 40 45

Leu Gly Ala Ala Gly Ala Pro Glu Gly Ser Gly Ser Asn Ser Ser Ser
50 55 60

Ser Ser Ser Gly Gly Gly Gly Gly Gly Gly Gly Gly Ser Asn Ser Ser
65 70 75 80

Ser Ser Ser Ser Thr Phe Asn Pro Gln Ala Asp Thr Gly Glu Gln Pro
85 90 95

Tyr Glu His Leu Thr Ala Glu Ser Phe Pro Asp Ile Ser Leu Asn Asn
100 105 110

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

115 120 125

Pro Pro Ile Thr Tyr Thr Gly Arg Phe Ser Leu Glu Pro Ala Pro Asn

130 135 140

Ser Gly Asn Thr Leu Trp Pro Glu Pro Leu Phe Ser Leu Val Ser Gly

145 150 155 160

Leu Val Ser Met Thr Asn Pro Pro Ala Ser Ser Ser Ser Ala Pro Ser

165 170 175

Pro Ala Ala Ser Ser Ala Ser Ala Ser Gln Ser Pro Pro Leu Ser Cys

180 185 190

Ala Val Pro Ser Asn Asp Ser Ser Pro Ile Tyr Ser Ala Ala Pro Thr

195 200 205

Phe Pro Thr Pro Asn Thr Asp Ile Phe Pro Glu Pro Gln Ser Gln Ala

210 215 220

Phe Pro Gly Ser Ala Gly Thr Ala Leu Gln Tyr Pro Pro Pro Ala Tyr

225 230 235 240

Pro Ala Ala Lys Gly Gly Phe Gln Val Pro Met Ile Pro Asp Tyr Leu
245 250 255

Phe Pro Gln Gln Gln Gly Asp Leu Gly Leu Gly Thr Pro Asp Gln Lys
260 265 270

Pro Phe Gln Gly Leu Glu Ser Arg Thr Gln Gln Pro Ser Leu Thr Pro
275 280 285

Leu Ser Thr Ile Lys Ala Phe Ala Thr Gln Ser Gly Ser Gln Asp Leu
290 295 300

Lys Ala Leu Asn Thr Ser Tyr Gln Ser Gln Leu Ile Lys Pro Ser Arg
305 310 315 320

Met Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro Pro His Glu Arg
325 330 335

Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Arg Arg
340 345 350

Asp Glu Leu Asn Val His Ile Arg Ile His Thr Gly Gln Lys Pro Phe

355 360 365

Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Ser Asp His Leu Thr

370 375 380

Asn His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile

385 390 395 400

Cys Gly Arg Lys Phe Ala Arg Ser Asp Asp Leu Val Arg His Thr Lys

405 410 415

Ile His Leu Arg Gln Lys Asp Arg Pro Tyr Ala Cys Pro Val Glu Ser

420 425 430

Cys Asp Arg Arg Phe Ser Arg Ser Asp Asn Leu Val Arg His Ile Arg

435 440 445

Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Asn

450 455 460

Phe Ser His Arg Thr Thr Leu Thr Asn His Ile Arg Thr His Thr Gly

465 470 475 480

Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Arg Glu

485 490 495

Asp Asn Leu His Thr His Thr Lys Ile His Leu Arg Gln Lys Asp Arg

500 505 510

Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Thr Ser

515 520 525

His Ser Leu Thr Glu His Ile Arg Ile His Thr Gly Gln Lys Pro Phe

530 535 540

Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Gln Ser Ser Ser Leu Val

545 550 555 560

Arg His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile

565 570 575

Cys Gly Arg Lys Phe Ala Arg Glu Asp Asn Leu His Thr His Thr Lys

580 585 590

Ile His Leu Arg Gln Lys Asp Lys Lys Ala Asp Lys Ser Val Val Ala

595 600 605

Ser Ser Ala Thr Ser Ser Leu Ser Ser Tyr Pro Ser Pro Val Ala Thr

610 615 620

Ser Tyr Pro Ser Pro Val Thr Thr Ser Tyr Pro Ser Pro Ala Thr Thr

625 630 635 640

Ser Tyr Pro Ser Pro Val Pro Thr Ser Phe Ser Ser Pro Gly Ser Ser

645 650 655

Thr Tyr Pro Ser Pro Val His Ser Gly Phe Pro Ser Pro Ser Val Ala

660 665 670

Thr Thr Tyr Ser Ser Val Pro Pro Ala Phe Pro Ala Gln Val Ser Ser

675 680 685

Phe Pro Ser Ser Ala Val Thr Asn Ser Phe Ser Ala Ser Thr Gly Leu

690 695 700

Ser Asp Met Thr Ala Thr Phe Ser Pro Arg Thr Ile Glu Ile Cys

705 710 715

<210> 322

<211> 719

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 322

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

Ser Asp Pro Phe Gly Ser Phe Pro His Ser Pro Thr Met Asp Asn Tyr
20 25 30

Pro Lys Leu Glu Glu Met Met Leu Leu Ser Asn Gly Ala Pro Gln Phe
35 40 45

Leu Gly Ala Ala Gly Ala Pro Glu Gly Ser Gly Ser Asn Ser Ser Ser
50 55 60

Ser Ser Ser Gly Gly Gly Gly Gly Gly Gly Gly Gly Ser Asn Ser Ser
65 70 75 80

Ser Ser Ser Ser Thr Phe Asn Pro Gln Ala Asp Thr Gly Glu Gln Pro
85 90 95

Tyr Glu His Leu Thr Ala Glu Ser Phe Pro Asp Ile Ser Leu Asn Asn

100 105 110

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

115 120 125

Pro Pro Ile Thr Tyr Thr Gly Arg Phe Ser Leu Glu Pro Ala Pro Asn

130 135 140

Ser Gly Asn Thr Leu Trp Pro Glu Pro Leu Phe Ser Leu Val Ser Gly

145 150 155 160

Leu Val Ser Met Thr Asn Pro Pro Ala Ser Ser Ser Ser Ala Pro Ser

165 170 175

Pro Ala Ala Ser Ser Ala Ser Ala Ser Gln Ser Pro Pro Leu Ser Cys

180 185 190

Ala Val Pro Ser Asn Asp Ser Ser Pro Ile Tyr Ser Ala Ala Pro Thr

195 200 205

Phe Pro Thr Pro Asn Thr Asp Ile Phe Pro Glu Pro Gln Ser Gln Ala

210 215 220

Phe Pro Gly Ser Ala Gly Thr Ala Leu Gln Tyr Pro Pro Pro Ala Tyr
225 230 235 240

Pro Ala Ala Lys Gly Gly Phe Gln Val Pro Met Ile Pro Asp Tyr Leu
245 250 255

Phe Pro Gln Gln Gln Gly Asp Leu Gly Leu Gly Thr Pro Asp Gln Lys
260 265 270

Pro Phe Gln Gly Leu Glu Ser Arg Thr Gln Gln Pro Ser Leu Thr Pro
275 280 285

Leu Ser Thr Ile Lys Ala Phe Ala Thr Gln Ser Gly Ser Gln Asp Leu
290 295 300

Lys Ala Leu Asn Thr Ser Tyr Gln Ser Gln Leu Ile Lys Pro Ser Arg
305 310 315 320

Met Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro Pro His Glu Arg
325 330 335

Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Arg Arg

340 345 350

Asp Glu Leu Asn Val His Ile Arg Ile His Thr Gly Gln Lys Pro Phe

355 360 365

Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Ser Asp His Leu Thr

370 375 380

Asn His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile

385 390 395 400

Cys Gly Arg Lys Phe Ala Arg Ser Asp Asp Leu Val Arg His Thr Lys

405 410 415

Ile His Leu Arg Gln Lys Asp Arg Pro Tyr Ala Cys Pro Val Glu Ser

420 425 430

Cys Asp Arg Arg Phe Ser Arg Ser Asp Asn Leu Val Arg His Ile Arg

435 440 445

Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Asn

450 455 460

Phe Ser His Arg Thr Thr Leu Thr Asn His Ile Arg Thr His Thr Gly

465 470 475 480

Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Arg Glu

485 490 495

Asp Asn Leu His Thr His Thr Lys Ile His Leu Arg Gln Lys Asp Arg

500 505 510

Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Thr Ser

515 520 525

His Ser Leu Thr Glu His Ile Arg Ile His Thr Gly Gln Lys Pro Phe

530 535 540

Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Gln Ser Ser Ser Leu Val

545 550 555 560

Arg His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile

565 570 575

Cys Gly Arg Lys Phe Ala Arg Glu Asp Asn Leu His Thr His Thr Lys

580 585 590

Ile His Leu Arg Gln Lys Asp Lys Lys Ala Asp Lys Ser Val Val Ala

595 600 605

Ser Ser Ala Thr Ser Ser Leu Ser Ser Tyr Pro Ser Pro Val Ala Thr

610 615 620

Ser Tyr Pro Ser Pro Val Thr Thr Ser Tyr Pro Ser Pro Ala Thr Thr

625 630 635 640

Ser Tyr Pro Ser Pro Val Pro Thr Ser Phe Ser Ser Pro Gly Ser Ser

645 650 655

Thr Tyr Pro Ser Pro Val His Ser Gly Phe Pro Ser Pro Ser Val Ala

660 665 670

Thr Thr Tyr Ser Ser Val Pro Pro Ala Phe Pro Ala Gln Val Ser Ser

675 680 685

Phe Pro Ser Ser Ala Val Thr Asn Ser Phe Ser Ala Ser Thr Gly Leu

690 695 700

Ser Asp Met Thr Ala Thr Phe Ser Pro Arg Thr Ile Glu Ile Cys

705 710 715

<210> 323

<211> 473

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 323

Met Thr Gly Lys Leu Ala Glu Lys Leu Pro Val Thr Met Ser Ser Leu

1 5 10 15

Leu Asn Gln Leu Pro Asp Asn Leu Tyr Pro Glu Glu Ile Pro Ser Ala

20 25 30

Leu Asn Leu Phe Ser Gly Ser Ser Asp Ser Val Val His Tyr Asn Gln

35 40 45

Met Ala Thr Glu Asn Val Met Asp Ile Gly Leu Thr Asn Glu Lys Pro

50 55 60

Asn Pro Glu Leu Ser Tyr Ser Gly Ser Phe Gln Pro Ala Pro Gly Asn

65 70 75 80

Lys Thr Val Thr Tyr Leu Gly Lys Phe Ala Phe Asp Ser Pro Ser Asn

85 90 95

Trp Cys Gln Asp Asn Ile Ile Ser Leu Met Ser Ala Gly Ile Leu Gly

100 105 110

Val Pro Pro Ala Ser Gly Ala Leu Ser Thr Gln Thr Ser Thr Ala Ser

115 120 125

Met Val Gln Pro Pro Gln Gly Asp Val Glu Ala Met Tyr Pro Ala Leu

130 135 140

Pro Pro Tyr Ser Asn Cys Gly Asp Leu Tyr Ser Glu Pro Val Ser Phe

145 150 155 160

His Asp Pro Gln Gly Asn Pro Gly Leu Ala Tyr Ser Pro Gln Asp Tyr

165 170 175

Gln Ser Ala Lys Pro Ala Leu Asp Ser Asn Leu Phe Pro Met Ile Pro

180 185 190

Asp Tyr Asn Leu Tyr His His Pro Asn Asp Met Gly Ser Ile Pro Glu

195 200 205

His Lys Pro Phe Gln Gly Met Asp Pro Ile Arg Val Asn Pro Pro Pro

210 215 220

Ile Thr Pro Leu Glu Thr Ile Lys Ala Phe Lys Asp Lys Gln Ile His

225 230 235 240

Pro Gly Phe Gly Ser Leu Pro Gln Pro Pro Leu Thr Leu Lys Pro Ile

245 250 255

Arg Pro Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro Leu His Glu

260 265 270

Arg Pro His Ala Cys Pro Ala Glu Gly Cys Asp Arg Arg Phe Ser Arg

275 280 285

Ser Asp Asn Leu Val Arg His Leu Arg Ile His Thr Gly His Lys Pro

290 295 300

Phe Gln Cys Arg Ile Cys Met Arg Ser Phe Ser Arg Glu Asp Asn Leu

305 310 315 320

His Thr His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Glu

325 330 335

Phe Cys Gly Arg Lys Phe Ala Arg Ser Asp Glu Leu Val Arg His Ala

340 345 350

Lys Ile His Leu Lys Gln Lys Glu His Ala Cys Pro Ala Glu Gly Cys

355 360 365

Asp Arg Arg Phe Ser Gln Ser Gly Asn Leu Thr Glu His Leu Arg Ile

370 375 380

His Thr Gly His Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Ser Phe

385 390 395 400

Ser Thr Ser Gly His Leu Val Arg His Ile Arg Thr His Thr Gly Glu

405 410 415

Lys Pro Phe Ala Cys Glu Phe Cys Gly Arg Lys Phe Ala Gln Asn Ser

420 425 430

Thr Leu Thr Glu His Ala Lys Ile His Leu Lys Gln Lys Glu Lys Lys

435 440 445

Ala Glu Lys Gly Gly Ala Pro Ser Ala Ser Ser Ala Pro Pro Val Ser

450 455 460

Leu Ala Pro Val Val Thr Thr Cys Ala

465 470

<210> 324

<211> 386

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 324

Met Ala Ala Asp His Leu Met Leu Ala Glu Gly Tyr Arg Leu Val Gln

1 5 10 15

Arg Pro Pro Ser Ala Ala Ala Ala His Gly Pro His Ala Leu Arg Thr

20 25 30

Leu Pro Pro Tyr Ala Gly Pro Gly Leu Asp Ser Gly Leu Arg Pro Arg

35 40 45

Gly Ala Pro Leu Gly Pro Pro Pro Pro Arg Gln Pro Gly Ala Leu Ala

50 55 60

Tyr Gly Ala Phe Gly Pro Pro Ser Ser Phe Gln Pro Phe Pro Ala Val

65 70 75 80

Pro Pro Pro Ala Ala Gly Ile Ala His Leu Gln Pro Val Ala Thr Pro

85 90 95

Tyr Pro Gly Arg Ala Ala Ala Pro Pro Asn Ala Pro Gly Gly Pro Pro

100 105 110

Gly Pro Gln Pro Ala Pro Ser Ala Ala Ala Pro Pro Pro Pro Ala His

115 120 125

Ala Leu Gly Gly Met Asp Ala Glu Leu Ile Asp Glu Glu Ala Leu Thr

130 135 140

Ser Leu Glu Leu Glu Leu Gly Leu His Arg Val Arg Glu Leu Pro Glu

145 150 155 160

Leu Phe Leu Gly Gln Ser Glu Phe Asp Cys Phe Ser Asp Leu Gly Ser

165 170 175

Ala Pro Pro Ala Gly Ser Val Ser Cys Gln Ser Gln Leu Ile Lys Pro

180 185 190

Ser Arg Met Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro Pro His

195 200 205

Glu Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser

210 215 220

Arg Ser Asp Asn Leu Val Arg His Ile Arg Ile His Thr Gly Gln Lys

225 230 235 240

Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser His Arg Thr Thr

245 250 255

Leu Thr Asn His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys

260 265 270

Asp Ile Cys Gly Arg Lys Phe Ala Arg Glu Asp Asn Leu His Thr His

275 280 285

Thr Lys Ile His Leu Arg Gln Lys Asp Arg Pro Tyr Ala Cys Pro Val

290 295 300

Glu Ser Cys Asp Arg Arg Phe Ser Thr Ser His Ser Leu Thr Glu His

305 310 315 320

Ile Arg Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met

325 330 335

Arg Asn Phe Ser Gln Ser Ser Ser Leu Val Arg His Ile Arg Thr His

340 345 350

Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala

355 360 365

Arg Glu Asp Asn Leu His Thr His Thr Lys Ile His Leu Arg Gln Lys

370 375 380

Asp Lys

385

<210> 325

<211> 627

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 325

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

Ser Asp Pro Phe Gly Ser Phe Pro His Ser Pro Thr Met Asp Asn Tyr
20 25 30

Pro Lys Leu Glu Glu Met Met Leu Leu Ser Asn Gly Ala Pro Gln Phe
35 40 45

Leu Gly Ala Ala Gly Ala Pro Glu Gly Ser Gly Ser Asn Ser Ser Ser
50 55 60

Ser Ser Ser Gly Gly Gly Gly Gly Gly Gly Gly Gly Ser Asn Ser Ser
65 70 75 80

Ser Ser Ser Ser Thr Phe Asn Pro Gln Ala Asp Thr Gly Glu Gln Pro
85 90 95

Tyr Glu His Leu Thr Ala Glu Ser Phe Pro Asp Ile Ser Leu Asn Asn
100 105 110

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

115 120 125

Pro Pro Ile Thr Tyr Thr Gly Arg Phe Ser Leu Glu Pro Ala Pro Asn

130 135 140

Ser Gly Asn Thr Leu Trp Pro Glu Pro Leu Phe Ser Leu Val Ser Gly

145 150 155 160

Leu Val Ser Met Thr Asn Pro Pro Ala Ser Ser Ser Ser Ala Pro Ser

165 170 175

Pro Ala Ala Ser Ser Ala Ser Ala Ser Gln Ser Pro Pro Leu Ser Cys

180 185 190

Ala Val Pro Ser Asn Asp Ser Ser Pro Ile Tyr Ser Ala Ala Pro Thr

195 200 205

Phe Pro Thr Pro Asn Thr Asp Ile Phe Pro Glu Pro Gln Ser Gln Ala

210 215 220

Phe Pro Gly Ser Ala Gly Thr Ala Leu Gln Tyr Pro Pro Pro Ala Tyr

225 230 235 240

Pro Ala Ala Lys Gly Gly Phe Gln Val Pro Met Ile Pro Asp Tyr Leu
245 250 255

Phe Pro Gln Gln Gln Gly Asp Leu Gly Leu Gly Thr Pro Asp Gln Lys
260 265 270

Pro Phe Gln Gly Leu Glu Ser Arg Thr Gln Gln Pro Ser Leu Thr Pro
275 280 285

Leu Ser Thr Ile Lys Ala Phe Ala Thr Gln Ser Gly Ser Gln Asp Leu
290 295 300

Lys Ala Leu Asn Thr Ser Tyr Gln Ser Gln Leu Ile Lys Pro Ser Arg
305 310 315 320

Met Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro Pro His Glu Arg
325 330 335

Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Arg Ser
340 345 350

Asp Asn Leu Val Arg His Ile Arg Ile His Thr Gly Gln Lys Pro Phe

355 360 365

Gln Cys Arg Ile Cys Met Arg Asn Phe Ser His Arg Thr Thr Leu Thr

370 375 380

Asn His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile

385 390 395 400

Cys Gly Arg Lys Phe Ala Arg Glu Asp Asn Leu His Thr His Ile Arg

405 410 415

Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys

420 425 430

Phe Ser Thr Ser His Ser Leu Thr Glu His Ile Arg Ile His Thr Gly

435 440 445

Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Gln Ser

450 455 460

Ser Ser Leu Val Arg His Ile Arg Thr His Thr Gly Glu Lys Pro Phe

465 470 475 480

Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Arg Glu Asp Asn Leu His

485 490 495

Thr His Thr Lys Ile His Leu Arg Gln Lys Asp Lys Lys Ala Asp Lys

500 505 510

Ser Val Val Ala Ser Ser Ala Thr Ser Ser Leu Ser Ser Tyr Pro Ser

515 520 525

Pro Val Ala Thr Ser Tyr Pro Ser Pro Val Thr Thr Ser Tyr Pro Ser

530 535 540

Pro Ala Thr Thr Ser Tyr Pro Ser Pro Val Pro Thr Ser Phe Ser Ser

545 550 555 560

Pro Gly Ser Ser Thr Tyr Pro Ser Pro Val His Ser Gly Phe Pro Ser

565 570 575

Pro Ser Val Ala Thr Thr Tyr Ser Ser Val Pro Pro Ala Phe Pro Ala

580 585 590

Gln Val Ser Ser Phe Pro Ser Ser Ala Val Thr Asn Ser Phe Ser Ala

595 600 605

Ser Thr Gly Leu Ser Asp Met Thr Ala Thr Phe Ser Pro Arg Thr Ile

610 615 620

Glu Ile Cys

625

<210> 326

<211> 62

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

oligonucleótidos sintéticos

<400> 326

aataaaagat ctttattttc attagatctg tgtgttggtt ttttgtgtgc ggaccgcacg 60

tg 62

<210> 327

<211> 477

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

polinucleótido sintético

<400> 327

gggtggcatc cctgtgaccc ctccccagtg cctctcctgg ccctggaagt tgccactcca 60

gtgcccacca gccttgtcct aataaaatta agttgcatca ttttgtctga ctaggtgtcc 120

ttctataata ttatggggtg gagggggtg gtatggagca aggggcaagt tgggaagaca 180

acctgtaggg cctgcggggt ctattgggaa ccaagctgga gtgcagtggc acaatcttgg 240

ctcactgcaa tctccgcctc ctgggttcaa gcgattctcc tgcctcagcc tcccgagttg 300

ttgggattcc aggcatgcat gaccaggctc agctaatttt tgtttttttg gtagagacgg 360

ggtttcacca tattggccag gctggtctcc aactcctaat ctcaggtgat ctacccacct 420

tggcctccca aattgctggg attacaggcg tgaaccactg ctcccttccc tgtcctt 477

<210> 328

<211> 23

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

primer

<400> 328

ccatggaact ggctcgattt cac 23

<210> 329

<211> 27

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

probe

<400> 329

aggcctgaaa accattgtgg gagccct 27

<210> 330

<211> 18

<212> DNA

<213> Homo sapiens

<400> 330

cgcactgtca atgcccca 18

<210> 331

<211> 18

<212> DNA

<213> Homo sapiens

<400> 331

cctgctgagg ctgtcccg 18

<210> 332

<211> 18

<212> DNA

<213> Homo sapiens

<400> 332

aatggggtgt ggggcgag 18

<210> 333

<211> 18

<212> DNA

<213> Homo sapiens

<400> 333

cctagaaatg gggtgtgg 18

<210> 334

<211> 27

<212> DNA

<213> Homo sapiens

<400> 334

tgagtagaaa agaaacacag cattcca 27

<210> 335

<211> 21

<212> DNA

<213> Homo sapiens

<400> 335

gagtagaaaa gaaacacagc a 21

<210> 336

<211> 21

<212> DNA

<213> Homo sapiens

<400> 336

agtagaaaag aaacacagca t 21

<210> 337

<211> 272

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 337

Met Ala Pro Lys Lys Lys Arg Lys Val Gly Ile His Gly Val Pro Ala

1 5 10 15

Ala Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

20 25 30

Ser Phe Ser Thr Ser His Ser Leu Thr Glu His Gln Arg Thr His Thr

35 40 45

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Asp

50 55 60

Cys Arg Asp Leu Ala Arg His Gln Arg Thr His Thr Gly Glu Lys Pro

65 70 75 80

Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Thr Thr Gly Asn Leu

85 90 95

Thr Val His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro

100 105 110

Glu Cys Gly Lys Ser Phe Ser Asp Pro Gly Ala Leu Val Arg His Gln

115 120 125

Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

130 135 140

Ser Phe Ser Thr His Leu Asp Leu Ile Arg His Gln Arg Thr His Thr

145 150 155 160

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser His

165 170 175

Thr Gly His Leu Leu Glu His Gln Arg Thr His Thr Gly Lys Lys Thr

180 185 190

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

195 200 205

Lys Gly Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Leu Glu Asp Ala

210 215 220

Leu Asp Asp Phe Asp Leu Asp Met Leu Gly Ser Asp Ala Leu Asp Asp

225 230 235 240

Phe Asp Leu Asp Met Leu Gly Ser Asp Ala Leu Asp Asp Phe Asp Leu

245 250 255

Asp Met Leu Gly Ser Asp Ala Leu Asp Asp Phe Asp Leu Asp Met Leu

260 265 270

<210> 338

<211> 272

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 338

Met Ala Pro Lys Lys Lys Arg Lys Val Gly Ile His Gly Val Pro Ala
1 5 10 15

Ala Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys
20 25 30

Ser Phe Ser Arg Asn Asp Thr Leu Thr Glu His Gln Arg Thr His Thr
35 40 45

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Asp
50 55 60

Pro Gly Ala Leu Val Arg His Gln Arg Thr His Thr Gly Glu Lys Pro
65 70 75 80

Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Thr Ser Gly Glu Leu

85 90 95

Val Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro

100 105 110

Glu Cys Gly Lys Ser Phe Ser Arg Ser Asp Asn Leu Val Arg His Gln

115 120 125

Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

130 135 140

Ser Phe Ser Thr Ser Gly Glu Leu Val Arg His Gln Arg Thr His Thr

145 150 155 160

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Thr

165 170 175

Lys Asn Ser Leu Thr Glu His Gln Arg Thr His Thr Gly Lys Lys Thr

180 185 190

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

195 200 205

Lys Gly Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Leu Glu Asp Ala

210 215 220

Leu Asp Asp Phe Asp Leu Asp Met Leu Gly Ser Asp Ala Leu Asp Asp

225 230 235 240

Phe Asp Leu Asp Met Leu Gly Ser Asp Ala Leu Asp Asp Phe Asp Leu

245 250 255

Asp Met Leu Gly Ser Asp Ala Leu Asp Asp Phe Asp Leu Asp Met Leu

260 265 270

<210> 339

<211> 781

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 339

Met Ala Pro Lys Lys Lys Arg Lys Val Gly Ile His Gly Val Pro Ala

1 5 10 15

Ala Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

20 25 30

Ser Phe Ser Thr Ser Gly Asn Leu Thr Glu His Gln Arg Thr His Thr

35 40 45

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg

50 55 60

Ala Asp Asn Leu Thr Glu His Gln Arg Thr His Thr Gly Glu Lys Pro

65 70 75 80

Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Ser Pro Ala Asp Leu

85 90 95

Thr Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro

100 105 110

Glu Cys Gly Lys Ser Phe Ser Gln Ser Ser Asn Leu Val Arg His Gln

115 120 125

Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

130 135 140

Ser Phe Ser Gln Arg Ala Asn Leu Arg Ala His Gln Arg Thr His Thr

145 150 155 160

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln

165 170 175

Leu Ala His Leu Arg Ala His Gln Arg Thr His Thr Gly Glu Lys Pro

180 185 190

Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser His Arg Thr Thr Leu

195 200 205

Thr Asn His Gln Arg Thr His Thr Gly Lys Lys Thr Ser Lys Arg Pro

210 215 220

Ala Ala Thr Lys Lys Ala Gly Gln Ala Lys Lys Lys Lys Gly Ser Tyr

225 230 235 240

Pro Tyr Asp Val Pro Asp Tyr Ala Leu Glu Glu Ala Ser Gly Ser Gly

245 250 255

Arg Ala Asp Ala Leu Asp Asp Phe Asp Leu Asp Met Leu Gly Ser Asp

260 265 270

Ala Leu Asp Asp Phe Asp Leu Asp Met Leu Gly Ser Asp Ala Leu Asp

275 280 285

Asp Phe Asp Leu Asp Met Leu Gly Ser Asp Ala Leu Asp Asp Phe Asp

290 295 300

Leu Asp Met Leu Ile Asn Ser Arg Ser Ser Gly Ser Pro Lys Lys Lys

305 310 315 320

Arg Lys Val Gly Ser Gln Tyr Leu Pro Asp Thr Asp Asp Arg His Arg

325 330 335

Ile Glu Glu Lys Arg Lys Arg Thr Tyr Glu Thr Phe Lys Ser Ile Met

340 345 350

Lys Lys Ser Pro Phe Ser Gly Pro Thr Asp Pro Arg Pro Pro Pro Arg

355 360 365

Arg Ile Ala Val Pro Ser Arg Ser Ser Ala Ser Val Pro Lys Pro Ala

370 375 380

Pro Gln Pro Tyr Pro Phe Thr Ser Ser Leu Ser Thr Ile Asn Tyr Asp

385 390 395 400

Glu Phe Pro Thr Met Val Phe Pro Ser Gly Gln Ile Ser Gln Ala Ser

405 410 415

Ala Leu Ala Pro Ala Pro Pro Gln Val Leu Pro Gln Ala Pro Ala Pro

420 425 430

Ala Pro Ala Pro Ala Met Val Ser Ala Leu Ala Gln Ala Pro Ala Pro

435 440 445

Val Pro Val Leu Ala Pro Gly Pro Pro Gln Ala Val Ala Pro Pro Ala

450 455 460

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

465 470 475 480

Gln Leu Gln Phe Asp Asp Glu Asp Leu Gly Ala Leu Leu Gly Asn Ser

485 490 495

Thr Asp Pro Ala Val Phe Thr Asp Leu Ala Ser Val Asp Asn Ser Glu

500 505 510

Phe Gln Gln Leu Leu Asn Gln Gly Ile Pro Val Ala Pro His Thr Thr

515 520 525

Glu Pro Met Leu Met Glu Tyr Pro Glu Ala Ile Thr Arg Leu Val Thr

530 535 540

Gly Ala Gln Arg Pro Pro Asp Pro Ala Pro Ala Pro Leu Gly Ala Pro

545 550 555 560

Gly Leu Pro Asn Gly Leu Leu Ser Gly Asp Glu Asp Phe Ser Ser Ile

565 570 575

Ala Asp Met Asp Phe Ser Ala Leu Leu Gly Ser Gly Ser Gly Ser Arg

580 585 590

Asp Ser Arg Glu Gly Met Phe Leu Pro Lys Pro Glu Ala Gly Ser Ala

595 600 605

Ile Ser Asp Val Phe Glu Gly Arg Glu Val Cys Gln Pro Lys Arg Ile

610 615 620

Arg Pro Phe His Pro Pro Gly Ser Pro Trp Ala Asn Arg Pro Leu Pro

625 630 635 640

Ala Ser Leu Ala Pro Thr Pro Thr Gly Pro Val His Glu Pro Val Gly

645 650 655

Ser Leu Thr Pro Ala Pro Val Pro Gln Pro Leu Asp Pro Ala Pro Ala

660 665 670

Val Thr Pro Glu Ala Ser His Leu Leu Glu Asp Pro Asp Glu Glu Thr

675 680 685

Ser Gln Ala Val Lys Ala Leu Arg Glu Met Ala Asp Thr Val Ile Pro

690 695 700

Gln Lys Glu Glu Ala Ala Ile Cys Gly Gln Met Asp Leu Ser His Pro

705 710 715 720

Pro Pro Arg Gly His Leu Asp Glu Leu Thr Thr Thr Leu Glu Ser Met

725 730 735

Thr Glu Asp Leu Asn Leu Asp Ser Pro Leu Thr Pro Glu Leu Asn Glu

740 745 750

Ile Leu Asp Thr Phe Leu Asn Asp Glu Cys Leu Leu His Ala Met His

755 760 765

Ile Ser Thr Gly Leu Ser Ile Phe Asp Thr Ser Leu Phe
770 775 780

<210> 340

<211> 272

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 340

Met Ala Pro Lys Lys Lys Arg Lys Val Gly Ile His Gly Val Pro Ala
1 5 10 15

Ala Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys
20 25 30

Ser Phe Ser Ser Pro Ala Asp Leu Thr Arg His Gln Arg Thr His Thr
35 40 45

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Asp
50 55 60

Ser Gly Asn Leu Arg Val His Gln Arg Thr His Thr Gly Glu Lys Pro

65 70 75 80

Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Leu Ala His Leu

85 90 95

Arg Ala His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro

100 105 110

Glu Cys Gly Lys Ser Phe Ser Gln Arg Ala Asn Leu Arg Ala His Gln

115 120 125

Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

130 135 140

Ser Phe Ser Arg Glu Asp Asn Leu His Thr His Gln Arg Thr His Thr

145 150 155 160

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg

165 170 175

Ser Asp Asn Leu Val Arg His Gln Arg Thr His Thr Gly Lys Lys Thr

180 185 190

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

195 200 205

Lys Gly Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Leu Glu Asp Ala

210 215 220

Leu Asp Asp Phe Asp Leu Asp Met Leu Gly Ser Asp Ala Leu Asp Asp

225 230 235 240

Phe Asp Leu Asp Met Leu Gly Ser Asp Ala Leu Asp Asp Phe Asp Leu

245 250 255

Asp Met Leu Gly Ser Asp Ala Leu Asp Asp Phe Asp Leu Asp Met Leu

260 265 270

<210> 341

<211> 753

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 341

Met Ala Pro Lys Lys Lys Arg Lys Val Gly Ile His Gly Val Pro Ala

1 5 10 15

Ala Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

20 25 30

Ser Phe Ser Ser Pro Ala Asp Leu Thr Arg His Gln Arg Thr His Thr

35 40 45

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Asp

50 55 60

Ser Gly Asn Leu Arg Val His Gln Arg Thr His Thr Gly Glu Lys Pro

65 70 75 80

Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Leu Ala His Leu

85 90 95

Arg Ala His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro

100 105 110

Glu Cys Gly Lys Ser Phe Ser Gln Arg Ala Asn Leu Arg Ala His Gln

115 120 125

Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

130 135 140

Ser Phe Ser Arg Glu Asp Asn Leu His Thr His Gln Arg Thr His Thr

145 150 155 160

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg

165 170 175

Ser Asp Asn Leu Val Arg His Gln Arg Thr His Thr Gly Lys Lys Thr

180 185 190

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

195 200 205

Lys Gly Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Leu Glu Glu Ala

210 215 220

Ser Gly Ser Gly Arg Ala Asp Ala Leu Asp Asp Phe Asp Leu Asp Met

225 230 235 240

Leu Gly Ser Asp Ala Leu Asp Asp Phe Asp Leu Asp Met Leu Gly Ser

245 250 255

Asp Ala Leu Asp Asp Phe Asp Leu Asp Met Leu Gly Ser Asp Ala Leu

260 265 270

Asp Asp Phe Asp Leu Asp Met Leu Ile Asn Ser Arg Ser Ser Gly Ser

275 280 285

Pro Lys Lys Lys Arg Lys Val Gly Ser Gln Tyr Leu Pro Asp Thr Asp

290 295 300

Asp Arg His Arg Ile Glu Glu Lys Arg Lys Arg Thr Tyr Glu Thr Phe

305 310 315 320

Lys Ser Ile Met Lys Lys Ser Pro Phe Ser Gly Pro Thr Asp Pro Arg

325 330 335

Pro Pro Pro Arg Arg Ile Ala Val Pro Ser Arg Ser Ser Ala Ser Val

340 345 350

Pro Lys Pro Ala Pro Gln Pro Tyr Pro Phe Thr Ser Ser Leu Ser Thr

355 360 365

Ile Asn Tyr Asp Glu Phe Pro Thr Met Val Phe Pro Ser Gly Gln Ile

370 375 380

Ser Gln Ala Ser Ala Leu Ala Pro Ala Pro Pro Gln Val Leu Pro Gln

385 390 395 400

Ala Pro Ala Pro Ala Pro Ala Pro Ala Met Val Ser Ala Leu Ala Gln

405 410 415

Ala Pro Ala Pro Val Pro Val Leu Ala Pro Gly Pro Pro Gln Ala Val

420 425 430

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

435 440 445

Glu Ala Leu Leu Gln Leu Gln Phe Asp Asp Glu Asp Leu Gly Ala Leu

450 455 460

Leu Gly Asn Ser Thr Asp Pro Ala Val Phe Thr Asp Leu Ala Ser Val

465 470 475 480

Asp Asn Ser Glu Phe Gln Gln Leu Leu Asn Gln Gly Ile Pro Val Ala

485 490 495

Pro His Thr Thr Glu Pro Met Leu Met Glu Tyr Pro Glu Ala Ile Thr

500 505 510

Arg Leu Val Thr Gly Ala Gln Arg Pro Pro Asp Pro Ala Pro Ala Pro

515 520 525

Leu Gly Ala Pro Gly Leu Pro Asn Gly Leu Leu Ser Gly Asp Glu Asp

530 535 540

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

545 550 555 560

Ser Gly Ser Arg Asp Ser Arg Glu Gly Met Phe Leu Pro Lys Pro Glu

565 570 575

Ala Gly Ser Ala Ile Ser Asp Val Phe Glu Gly Arg Glu Val Cys Gln

580 585 590

Pro Lys Arg Ile Arg Pro Phe His Pro Pro Gly Ser Pro Trp Ala Asn

595 600 605

Arg Pro Leu Pro Ala Ser Leu Ala Pro Thr Pro Thr Gly Pro Val His

610 615 620

Glu Pro Val Gly Ser Leu Thr Pro Ala Pro Val Pro Gln Pro Leu Asp
625 630 635 640

Pro Ala Pro Ala Val Thr Pro Glu Ala Ser His Leu Leu Glu Asp Pro
645 650 655

Asp Glu Glu Thr Ser Gln Ala Val Lys Ala Leu Arg Glu Met Ala Asp
660 665 670

Thr Val Ile Pro Gln Lys Glu Glu Ala Ala Ile Cys Gly Gln Met Asp
675 680 685

Leu Ser His Pro Pro Pro Arg Gly His Leu Asp Glu Leu Thr Thr Thr
690 695 700

Leu Glu Ser Met Thr Glu Asp Leu Asn Leu Asp Ser Pro Leu Thr Pro
705 710 715 720

Glu Leu Asn Glu Ile Leu Asp Thr Phe Leu Asn Asp Glu Cys Leu Leu
725 730 735

His Ala Met His Ile Ser Thr Gly Leu Ser Ile Phe Asp Thr Ser Leu

740 745 750

Phe

<210> 342

<211> 753

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 342

Met Ala Pro Lys Lys Lys Arg Lys Val Gly Ile His Gly Val Pro Ala

1 5 10 15

Ala Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

20 25 30

Ser Phe Ser Ser Pro Ala Asp Leu Thr Arg His Gln Arg Thr His Thr

35 40 45

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Asp

50 55 60

Ser Gly Asn Leu Arg Val His Gln Arg Thr His Thr Gly Glu Lys Pro
65 70 75 80

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

Arg Ala His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro
100 105 110

Glu Cys Gly Lys Ser Phe Ser Gln Arg Ala Asn Leu Arg Ala His Gln
115 120 125

Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys
130 135 140

Ser Phe Ser Arg Glu Asp Asn Leu His Thr His Gln Arg Thr His Thr
145 150 155 160

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg
165 170 175

Ser Asp Asn Leu Val Arg His Gln Arg Thr His Thr Gly Lys Lys Thr

180 185 190

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

195 200 205

Lys Gly Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Leu Glu Glu Ala

210 215 220

Ser Gly Ser Gly Arg Ala Asp Ala Leu Asp Asp Phe Asp Leu Asp Met

225 230 235 240

Leu Gly Ser Asp Ala Leu Asp Asp Phe Asp Leu Asp Met Leu Gly Ser

245 250 255

Asp Ala Leu Asp Asp Phe Asp Leu Asp Met Leu Gly Ser Asp Ala Leu

260 265 270

Asp Asp Phe Asp Leu Asp Met Leu Ile Asn Ser Arg Ser Ser Gly Ser

275 280 285

Pro Lys Lys Lys Arg Lys Val Gly Ser Gln Tyr Leu Pro Asp Thr Asp

290 295 300

Asp Arg His Arg Ile Glu Glu Lys Arg Lys Arg Thr Tyr Glu Thr Phe

305 310 315 320

Lys Ser Ile Met Lys Lys Ser Pro Phe Ser Gly Pro Thr Asp Pro Arg

325 330 335

Pro Pro Pro Arg Arg Ile Ala Val Pro Ser Arg Ser Ser Ala Ser Val

340 345 350

Pro Lys Pro Ala Pro Gln Pro Tyr Pro Phe Thr Ser Ser Leu Ser Thr

355 360 365

Ile Asn Tyr Asp Glu Phe Pro Thr Met Val Phe Pro Ser Gly Gln Ile

370 375 380

Ser Gln Ala Ser Ala Leu Ala Pro Ala Pro Pro Gln Val Leu Pro Gln

385 390 395 400

Ala Pro Ala Pro Ala Pro Ala Pro Ala Met Val Ser Ala Leu Ala Gln

405 410 415

Ala Pro Ala Pro Val Pro Val Leu Ala Pro Gly Pro Pro Gln Ala Val

420 425 430

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

435 440 445

Glu Ala Leu Leu Gln Leu Gln Phe Asp Asp Glu Asp Leu Gly Ala Leu

450 455 460

Leu Gly Asn Ser Thr Asp Pro Ala Val Phe Thr Asp Leu Ala Ser Val

465 470 475 480

Asp Asn Ser Glu Phe Gln Gln Leu Leu Asn Gln Gly Ile Pro Val Ala

485 490 495

Pro His Thr Thr Glu Pro Met Leu Met Glu Tyr Pro Glu Ala Ile Thr

500 505 510

Arg Leu Val Thr Gly Ala Gln Arg Pro Pro Asp Pro Ala Pro Ala Pro

515 520 525

Leu Gly Ala Pro Gly Leu Pro Asn Gly Leu Leu Ser Gly Asp Glu Asp

530 535 540

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

545 550 555 560

Ser Gly Ser Arg Asp Ser Arg Glu Gly Met Phe Leu Pro Lys Pro Glu
565 570 575

Ala Gly Ser Ala Ile Ser Asp Val Phe Glu Gly Arg Glu Val Cys Gln
580 585 590

Pro Lys Arg Ile Arg Pro Phe His Pro Pro Gly Ser Pro Trp Ala Asn
595 600 605

Arg Pro Leu Pro Ala Ser Leu Ala Pro Thr Pro Thr Gly Pro Val His
610 615 620

Glu Pro Val Gly Ser Leu Thr Pro Ala Pro Val Pro Gln Pro Leu Asp
625 630 635 640

Pro Ala Pro Ala Val Thr Pro Glu Ala Ser His Leu Leu Glu Asp Pro
645 650 655

Asp Glu Glu Thr Ser Gln Ala Val Lys Ala Leu Arg Glu Met Ala Asp
660 665 670

Thr Val Ile Pro Gln Lys Glu Glu Ala Ala Ile Cys Gly Gln Met Asp

675 680 685

Leu Ser His Pro Pro Pro Arg Gly His Leu Asp Glu Leu Thr Thr Thr

690 695 700

Leu Glu Ser Met Thr Glu Asp Leu Asn Leu Asp Ser Pro Leu Thr Pro

705 710 715 720

Glu Leu Asn Glu Ile Leu Asp Thr Phe Leu Asn Asp Glu Cys Leu Leu

725 730 735

His Ala Met His Ile Ser Thr Gly Leu Ser Ile Phe Asp Thr Ser Leu

740 745 750

Phe

<210> 343

<211> 272

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 343

Met Ala Pro Lys Lys Lys Arg Lys Val Gly Ile His Gly Val Pro Ala
1 5 10 15

Ala Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys
20 25 30

Ser Phe Ser Ser Pro Ala Asp Leu Thr Arg His Gln Arg Thr His Thr
35 40 45

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Asp
50 55 60

Ser Gly Asn Leu Arg Val His Gln Arg Thr His Thr Gly Glu Lys Pro
65 70 75 80

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

Arg Ala His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro
100 105 110

Glu Cys Gly Lys Ser Phe Ser Gln Arg Ala Asn Leu Arg Ala His Gln

115 120 125

Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

130 135 140

Ser Phe Ser Arg Glu Asp Asn Leu His Thr His Gln Arg Thr His Thr

145 150 155 160

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg

165 170 175

Ser Asp Asn Leu Val Arg His Gln Arg Thr His Thr Gly Lys Lys Thr

180 185 190

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

195 200 205

Lys Gly Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Leu Glu Asp Ala

210 215 220

Leu Asp Asp Phe Asp Leu Asp Met Leu Gly Ser Asp Ala Leu Asp Asp

225 230 235 240

Phe Asp Leu Asp Met Leu Gly Ser Asp Ala Leu Asp Asp Phe Asp Leu

245 250 255

Asp Met Leu Gly Ser Asp Ala Leu Asp Asp Phe Asp Leu Asp Met Leu

260 265 270

<210> 344

<211> 837

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 344

Met Ala Pro Lys Lys Lys Arg Lys Val Gly Ile His Gly Val Pro Ala

1 5 10 15

Ala Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

20 25 30

Ser Phe Ser Thr Ser His Ser Leu Thr Glu His Gln Arg Thr His Thr

35 40 45

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser His

50 55 60

Lys Asn Ala Leu Gln Asn His Gln Arg Thr His Thr Gly Glu Lys Pro

65 70 75 80

Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Glu Arg Ser His Leu

85 90 95

Arg Glu His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro

100 105 110

Glu Cys Gly Lys Ser Phe Ser Ser Lys Lys Ala Leu Thr Glu His Gln

115 120 125

Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

130 135 140

Ser Phe Ser Gln Arg Ala Asn Leu Arg Ala His Gln Arg Thr His Thr

145 150 155 160

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg

165 170 175

Lys Asp Asn Leu Lys Asn His Gln Arg Thr His Thr Gly Glu Lys Pro

180 185 190

Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Ser Ser Asn Leu

195 200 205

Val Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro

210 215 220

Glu Cys Gly Lys Ser Phe Ser Gln Ser Ser Ser Leu Val Arg His Gln

225 230 235 240

Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

245 250 255

Ser Phe Ser Gln Ala Gly His Leu Ala Ser His Gln Arg Thr His Thr

260 265 270

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

275 280 285

Ala Lys Lys Lys Lys Gly Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala

290 295 300

Leu Glu Glu Ala Ser Gly Ser Gly Arg Ala Asp Ala Leu Asp Asp Phe

305 310 315 320

Asp Leu Asp Met Leu Gly Ser Asp Ala Leu Asp Asp Phe Asp Leu Asp

325 330 335

Met Leu Gly Ser Asp Ala Leu Asp Asp Phe Asp Leu Asp Met Leu Gly

340 345 350

Ser Asp Ala Leu Asp Asp Phe Asp Leu Asp Met Leu Ile Asn Ser Arg

355 360 365

Ser Ser Gly Ser Pro Lys Lys Lys Arg Lys Val Gly Ser Gln Tyr Leu

370 375 380

Pro Asp Thr Asp Asp Arg His Arg Ile Glu Glu Lys Arg Lys Arg Thr

385 390 395 400

Tyr Glu Thr Phe Lys Ser Ile Met Lys Lys Ser Pro Phe Ser Gly Pro

405 410 415

Thr Asp Pro Arg Pro Pro Pro Arg Arg Ile Ala Val Pro Ser Arg Ser

420 425 430

Ser Ala Ser Val Pro Lys Pro Ala Pro Gln Pro Tyr Pro Phe Thr Ser

435 440 445

Ser Leu Ser Thr Ile Asn Tyr Asp Glu Phe Pro Thr Met Val Phe Pro

450 455 460

Ser Gly Gln Ile Ser Gln Ala Ser Ala Leu Ala Pro Ala Pro Pro Gln

465 470 475 480

Val Leu Pro Gln Ala Pro Ala Pro Ala Pro Ala Pro Ala Met Val Ser

485 490 495

Ala Leu Ala Gln Ala Pro Ala Pro Val Pro Val Leu Ala Pro Gly Pro

500 505 510

Pro Gln Ala Val Ala Pro Pro Ala Pro Lys Pro Thr Gln Ala Gly Glu

515 520 525

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

530 535 540

Leu Gly Ala Leu Leu Gly Asn Ser Thr Asp Pro Ala Val Phe Thr Asp

545 550 555 560

Leu Ala Ser Val Asp Asn Ser Glu Phe Gln Gln Leu Leu Asn Gln Gly

565 570 575

Ile Pro Val Ala Pro His Thr Thr Glu Pro Met Leu Met Glu Tyr Pro

580 585 590

Glu Ala Ile Thr Arg Leu Val Thr Gly Ala Gln Arg Pro Pro Asp Pro

595 600 605

Ala Pro Ala Pro Leu Gly Ala Pro Gly Leu Pro Asn Gly Leu Leu Ser

610 615 620

Gly Asp Glu Asp Phe Ser Ser Ile Ala Asp Met Asp Phe Ser Ala Leu

625 630 635 640

Leu Gly Ser Gly Ser Gly Ser Arg Asp Ser Arg Glu Gly Met Phe Leu

645 650 655

Pro Lys Pro Glu Ala Gly Ser Ala Ile Ser Asp Val Phe Glu Gly Arg

660 665 670

Glu Val Cys Gln Pro Lys Arg Ile Arg Pro Phe His Pro Pro Gly Ser

675 680 685

Pro Trp Ala Asn Arg Pro Leu Pro Ala Ser Leu Ala Pro Thr Pro Thr

690 695 700

Gly Pro Val His Glu Pro Val Gly Ser Leu Thr Pro Ala Pro Val Pro

705 710 715 720

Gln Pro Leu Asp Pro Ala Pro Ala Val Thr Pro Glu Ala Ser His Leu

725 730 735

Leu Glu Asp Pro Asp Glu Glu Thr Ser Gln Ala Val Lys Ala Leu Arg

740 745 750

Glu Met Ala Asp Thr Val Ile Pro Gln Lys Glu Glu Ala Ala Ile Cys

755 760 765

Gly Gln Met Asp Leu Ser His Pro Pro Pro Arg Gly His Leu Asp Glu

770 775 780

Leu Thr Thr Thr Leu Glu Ser Met Thr Glu Asp Leu Asn Leu Asp Ser

785 790 795 800

Pro Leu Thr Pro Glu Leu Asn Glu Ile Leu Asp Thr Phe Leu Asn Asp

805 810 815

Glu Cys Leu Leu His Ala Met His Ile Ser Thr Gly Leu Ser Ile Phe

820 825 830

Asp Thr Ser Leu Phe

835

<210> 345

<211> 479

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 345

Met Gln Ser Gln Leu Ile Lys Pro Ser Arg Met Arg Lys Tyr Pro Asn

1 5 10 15

Arg Pro Ser Lys Thr Pro Pro His Glu Arg Pro Tyr Ala Cys Pro Val

20 25 30

Glu Ser Cys Asp Arg Arg Phe Ser Ser Pro Ala Asp Leu Thr Arg His

35 40 45

Ile Arg Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met

50 55 60

Arg Asn Phe Ser Asp Ser Gly Asn Leu Arg Val His Ile Arg Thr His

65 70 75 80

Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala

85 90 95

Gln Leu Ala His Leu Arg Ala His Thr Lys Ile His Leu Arg Gln Lys

100 105 110

Asp Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser

115 120 125

Gln Arg Ala Asn Leu Arg Ala His Ile Arg Ile His Thr Gly Gln Lys

130 135 140

Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Glu Asp Asn

145 150 155 160

Leu His Thr His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys

165 170 175

Asp Ile Cys Gly Arg Lys Phe Ala Arg Ser Asp Asn Leu Val Arg His

180 185 190

Thr Lys Ile His Leu Arg Gln Lys Asp Lys Leu Glu Met Ser Gly Leu

195 200 205

Glu Met Ala Asp His Met Met Ala Met Asn His Gly Arg Phe Pro Asp

210 215 220

Gly Thr Asn Gly Leu His His His Pro Ala His Arg Met Gly Met Gly

225 230 235 240

Gln Phe Pro Ser Pro His His His Gln Gln Gln Gln Pro Gln His Ala

245 250 255

Phe Asn Ala Leu Met Gly Glu His Ile His Tyr Gly Ala Gly Asn Met

260 265 270

Asn Ala Thr Ser Gly Ile Arg His Ala Met Gly Pro Gly Thr Val Asn

275 280 285

Gly Gly His Pro Pro Ser Ala Leu Ala Pro Ala Ala Arg Phe Asn Asn

290 295 300

Ser Gln Phe Met Gly Pro Pro Val Ala Ser Gln Gly Gly Ser Leu Pro

305 310 315 320

Ala Ser Met Gln Leu Gln Lys Leu Asn Asn Gln Tyr Phe Asn His His

325 330 335

Pro Tyr Pro His Asn His Tyr Met Pro Asp Leu His Pro Ala Ala Gly

340 345 350

His Gln Met Asn Gly Thr Asn Gln His Phe Arg Asp Cys Asn Pro Lys

355 360 365

His Ser Gly Gly Ser Ser Thr Pro Gly Gly Ser Gly Gly Ser Ser Thr

370 375 380

Pro Gly Gly Ser Gly Ser Ser Ser Gly Gly Gly Ala Gly Ser Ser Asn

385 390 395 400

Ser Gly Gly Gly Ser Gly Ser Gly Asn Met Pro Ala Ser Val Ala His

405 410 415

Val Pro Ala Ala Met Leu Pro Pro Asn Val Ile Asp Thr Asp Phe Ile

420 425 430

Asp Glu Glu Val Leu Met Ser Leu Val Ile Glu Met Gly Leu Asp Arg

435 440 445

Ile Lys Glu Leu Pro Glu Leu Trp Leu Gly Gln Asn Glu Phe Asp Phe

450 455 460

Met Thr Asp Phe Val Cys Lys Gln Gln Pro Ser Arg Val Ser Cys

465 470 475

<210> 346

<211> 476

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 346

Met Ser Gly Leu Glu Met Ala Asp His Met Met Ala Met Asn His Gly

1 5 10 15

Arg Phe Pro Asp Gly Thr Asn Gly Leu His His His Pro Ala His Arg
20 25 30

Met Gly Met Gly Gln Phe Pro Ser Pro His His His Gln Gln Gln Gln
35 40 45

Pro Gln His Ala Phe Asn Ala Leu Met Gly Glu His Ile His Tyr Gly
50 55 60

Ala Gly Asn Met Asn Ala Thr Ser Gly Val Arg His Ala Met Gly Pro
65 70 75 80

Gly Thr Val Asn Gly Gly His Pro Pro Ser Ala Leu Ala Pro Ala Ala
85 90 95

Arg Phe Asn Asn Ser Gln Phe Met Gly Pro Pro Val Ala Ser Gln Gly
100 105 110

Gly Ser Leu Pro Ala Ser Met Gln Leu Gln Lys Leu Asn Asn Gln Tyr
115 120 125

Phe Asn His His Pro Tyr Pro His Asn His Tyr Met Pro Asp Leu His

130 135 140

Pro Ala Ala Gly His Gln Met Asn Gly Thr Asn Gln His Phe Arg Asp

145 150 155 160

Cys Asn Pro Lys His Ser Gly Gly Ser Ser Thr Pro Gly Gly Ser Gly

165 170 175

Gly Ser Ser Thr Pro Gly Gly Ser Gly Ser Ser Ser Gly Gly Gly Ala

180 185 190

Gly Ser Ser Asn Ser Gly Gly Gly Ser Gly Ser Gly Asn Met Pro Ala

195 200 205

Ser Val Ala His Val Pro Ala Ala Met Leu Pro Pro Asn Val Ile Asp

210 215 220

Thr Asp Phe Ile Asp Glu Glu Val Leu Met Ser Leu Val Ile Glu Met

225 230 235 240

Gly Leu Asp Arg Ile Lys Glu Leu Pro Glu Leu Trp Leu Gly Gln Asn

245 250 255

Glu Phe Asp Phe Met Thr Asp Phe Val Cys Lys Gln Gln Pro Ser Arg

260 265 270

Val Ser Cys Gln Ser Gln Leu Ile Lys Pro Ser Arg Met Arg Lys Tyr

275 280 285

Pro Asn Arg Pro Ser Lys Thr Pro Pro His Glu Arg Pro Tyr Ala Cys

290 295 300

Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Ser Pro Ala Asp Leu Thr

305 310 315 320

Arg His Ile Arg Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile

325 330 335

Cys Met Arg Asn Phe Ser Asp Ser Gly Asn Leu Arg Val His Ile Arg

340 345 350

Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys

355 360 365

Phe Ala Gln Leu Ala His Leu Arg Ala His Thr Lys Ile His Leu Arg

370 375 380

Gln Lys Asp Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg

385 390 395 400

Phe Ser Gln Arg Ala Asn Leu Arg Ala His Ile Arg Ile His Thr Gly

405 410 415

Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Glu

420 425 430

Asp Asn Leu His Thr His Ile Arg Thr His Thr Gly Glu Lys Pro Phe

435 440 445

Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Arg Ser Asp Asn Leu Val

450 455 460

Arg His Thr Lys Ile His Leu Arg Gln Lys Asp Lys

465 470 475

<210> 347

<211> 479

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 347

Met Arg Pro His Ala Cys Pro Ala Glu Gly Cys Asp Arg Arg Phe Ser
1 5 10 15

Ser Pro Ala Asp Leu Thr Arg His Leu Arg Ile His Thr Gly His Lys
20 25 30

Pro Phe Gln Cys Arg Ile Cys Met Arg Ser Phe Ser Asp Ser Gly Asn
35 40 45

Leu Arg Val His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys
50 55 60

Glu Phe Cys Gly Arg Lys Phe Ala Gln Leu Ala His Leu Arg Ala His
65 70 75 80

Ala Lys Ile His Leu Lys Gln Lys Glu His Ala Cys Pro Ala Glu Gly
85 90 95

Cys Asp Arg Arg Phe Ser Gln Arg Ala Asn Leu Arg Ala His Leu Arg
100 105 110

Ile His Thr Gly His Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Ser

115 120 125

Phe Ser Arg Glu Asp Asn Leu His Thr His Ile Arg Thr His Thr Gly

130 135 140

Glu Lys Pro Phe Ala Cys Glu Phe Cys Gly Arg Lys Phe Ala Arg Ser

145 150 155 160

Asp Asn Leu Val Arg His Ala Lys Ile His Leu Lys Gln Lys Glu Lys

165 170 175

Lys Ala Glu Lys Gly Gly Ala Pro Ser Ala Ser Ser Ala Pro Pro Val

180 185 190

Ser Leu Ala Pro Val Val Thr Thr Cys Ala Leu Glu Met Ser Gly Leu

195 200 205

Glu Met Ala Asp His Met Met Ala Met Asn His Gly Arg Phe Pro Asp

210 215 220

Gly Thr Asn Gly Leu His His His Pro Ala His Arg Met Gly Met Gly

225 230 235 240

Gln Phe Pro Ser Pro His His His Gln Gln Gln Gln Pro Gln His Ala
245 250 255

Phe Asn Ala Leu Met Gly Glu His Ile His Tyr Gly Ala Gly Asn Met
260 265 270

Asn Ala Thr Ser Gly Ile Arg His Ala Met Gly Pro Gly Thr Val Asn
275 280 285

Gly Gly His Pro Pro Ser Ala Leu Ala Pro Ala Ala Arg Phe Asn Asn
290 295 300

Ser Gln Phe Met Gly Pro Pro Val Ala Ser Gln Gly Gly Ser Leu Pro
305 310 315 320

Ala Ser Met Gln Leu Gln Lys Leu Asn Asn Gln Tyr Phe Asn His His
325 330 335

Pro Tyr Pro His Asn His Tyr Met Pro Asp Leu His Pro Ala Ala Gly
340 345 350

His Gln Met Asn Gly Thr Asn Gln His Phe Arg Asp Cys Asn Pro Lys

355 360 365

His Ser Gly Gly Ser Ser Thr Pro Gly Gly Ser Gly Gly Ser Ser Thr

370 375 380

Pro Gly Gly Ser Gly Ser Ser Ser Gly Gly Gly Ala Gly Ser Ser Asn

385 390 395 400

Ser Gly Gly Gly Ser Gly Ser Gly Asn Met Pro Ala Ser Val Ala His

405 410 415

Val Pro Ala Ala Met Leu Pro Pro Asn Val Ile Asp Thr Asp Phe Ile

420 425 430

Asp Glu Glu Val Leu Met Ser Leu Val Ile Glu Met Gly Leu Asp Arg

435 440 445

Ile Lys Glu Leu Pro Glu Leu Trp Leu Gly Gln Asn Glu Phe Asp Phe

450 455 460

Met Thr Asp Phe Val Cys Lys Gln Gln Pro Ser Arg Val Ser Cys

465 470 475

<210> 348

<211> 476

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 348

Met Ser Gly Leu Glu Met Ala Asp His Met Met Ala Met Asn His Gly
1 5 10 15

Arg Phe Pro Asp Gly Thr Asn Gly Leu His His His Pro Ala His Arg
20 25 30

Met Gly Met Gly Gln Phe Pro Ser Pro His His His Gln Gln Gln Gln
35 40 45

Pro Gln His Ala Phe Asn Ala Leu Met Gly Glu His Ile His Tyr Gly
50 55 60

Ala Gly Asn Met Asn Ala Thr Ser Gly Val Arg His Ala Met Gly Pro
65 70 75 80

Gly Thr Val Asn Gly Gly His Pro Pro Ser Ala Leu Ala Pro Ala Ala

85 90 95

Arg Phe Asn Asn Ser Gln Phe Met Gly Pro Pro Val Ala Ser Gln Gly

100 105 110

Gly Ser Leu Pro Ala Ser Met Gln Leu Gln Lys Leu Asn Asn Gln Tyr

115 120 125

Phe Asn His His Pro Tyr Pro His Asn His Tyr Met Pro Asp Leu His

130 135 140

Pro Ala Ala Gly His Gln Met Asn Gly Thr Asn Gln His Phe Arg Asp

145 150 155 160

Cys Asn Pro Lys His Ser Gly Gly Ser Ser Thr Pro Gly Gly Ser Gly

165 170 175

Gly Ser Ser Thr Pro Gly Gly Ser Gly Ser Ser Ser Gly Gly Gly Ala

180 185 190

Gly Ser Ser Asn Ser Gly Gly Gly Ser Gly Ser Gly Asn Met Pro Ala

195 200 205

Ser Val Ala His Val Pro Ala Ala Met Leu Pro Pro Asn Val Ile Asp

210 215 220

Thr Asp Phe Ile Asp Glu Glu Val Leu Met Ser Leu Val Ile Glu Met

225 230 235 240

Gly Leu Asp Arg Ile Lys Glu Leu Pro Glu Leu Trp Leu Gly Gln Asn

245 250 255

Glu Phe Asp Phe Met Thr Asp Phe Val Cys Lys Gln Gln Pro Ser Arg

260 265 270

Val Ser Cys Arg Pro His Ala Cys Pro Ala Glu Gly Cys Asp Arg Arg

275 280 285

Phe Ser Ser Pro Ala Asp Leu Thr Arg His Leu Arg Ile His Thr Gly

290 295 300

His Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Ser Phe Ser Asp Ser

305 310 315 320

Gly Asn Leu Arg Val His Ile Arg Thr His Thr Gly Glu Lys Pro Phe

325 330 335

Ala Cys Glu Phe Cys Gly Arg Lys Phe Ala Gln Leu Ala His Leu Arg

340 345 350

Ala His Ala Lys Ile His Leu Lys Gln Lys Glu His Ala Cys Pro Ala

355 360 365

Glu Gly Cys Asp Arg Arg Phe Ser Gln Arg Ala Asn Leu Arg Ala His

370 375 380

Leu Arg Ile His Thr Gly His Lys Pro Phe Gln Cys Arg Ile Cys Met

385 390 395 400

Arg Ser Phe Ser Arg Glu Asp Asn Leu His Thr His Ile Arg Thr His

405 410 415

Thr Gly Glu Lys Pro Phe Ala Cys Glu Phe Cys Gly Arg Lys Phe Ala

420 425 430

Arg Ser Asp Asn Leu Val Arg His Ala Lys Ile His Leu Lys Gln Lys

435 440 445

Glu Lys Lys Ala Glu Lys Gly Gly Ala Pro Ser Ala Ser Ser Ala Pro

450 455 460

Pro Val Ser Leu Ala Pro Val Val Thr Thr Cys Ala

465 470 475

<210> 349

<211> 362

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 349

Met Arg Pro His Ala Cys Pro Ala Glu Gly Cys Asp Arg Arg Phe Ser

1 5 10 15

Ser Pro Ala Asp Leu Thr Arg His Leu Arg Ile His Thr Gly His Lys

20 25 30

Pro Phe Gln Cys Arg Ile Cys Met Arg Ser Phe Ser Asp Ser Gly Asn

35 40 45

Leu Arg Val His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys

50 55 60

Glu Phe Cys Gly Arg Lys Phe Ala Gln Leu Ala His Leu Arg Ala His

65 70 75 80

Ala Lys Ile His Leu Lys Gln Lys Glu His Ala Cys Pro Ala Glu Gly

85 90 95

Cys Asp Arg Arg Phe Ser Gln Arg Ala Asn Leu Arg Ala His Leu Arg

100 105 110

Ile His Thr Gly His Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Ser

115 120 125

Phe Ser Arg Glu Asp Asn Leu His Thr His Ile Arg Thr His Thr Gly

130 135 140

Glu Lys Pro Phe Ala Cys Glu Phe Cys Gly Arg Lys Phe Ala Arg Ser

145 150 155 160

Asp Asn Leu Val Arg His Ala Lys Ile His Leu Lys Gln Lys Glu Lys

165 170 175

Leu Glu Met Ala Asp His Leu Met Leu Ala Glu Gly Tyr Arg Leu Val

180 185 190

Gln Arg Pro Pro Ser Ala Ala Ala Ala His Gly Pro His Ala Leu Arg

195 200 205

Thr Leu Pro Pro Tyr Ala Gly Pro Gly Leu Asp Ser Gly Leu Arg Pro

210 215 220

Arg Gly Ala Pro Leu Gly Pro Pro Pro Pro Arg Gln Pro Gly Ala Leu

225 230 235 240

Ala Tyr Gly Ala Phe Gly Pro Pro Ser Ser Phe Gln Pro Phe Pro Ala

245 250 255

Val Pro Pro Pro Ala Ala Gly Ile Ala His Leu Gln Pro Val Ala Thr

260 265 270

Pro Tyr Pro Gly Arg Ala Ala Ala Pro Pro Asn Ala Pro Gly Gly Pro

275 280 285

Pro Gly Pro Gln Pro Ala Pro Ser Ala Ala Ala Pro Pro Pro Pro Ala

290 295 300

His Ala Leu Gly Gly Met Asp Ala Glu Leu Ile Asp Glu Glu Ala Leu

305 310 315 320

Thr Ser Leu Glu Leu Glu Leu Gly Leu His Arg Val Arg Glu Leu Pro

325 330 335

Glu Leu Phe Leu Gly Gln Ser Glu Phe Asp Cys Phe Ser Asp Leu Gly

340 345 350

Ser Ala Pro Pro Ala Gly Ser Val Ser Cys

355 360

<210> 350

<211> 554

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 350

Met Ala Ala Asp His Leu Met Leu Ala Glu Gly Tyr Arg Leu Val Gln

1 5 10 15

Arg Pro Pro Ser Ala Ala Ala Ala His Gly Pro His Ala Leu Arg Thr

20 25 30

Leu Pro Pro Tyr Ala Gly Pro Gly Leu Asp Ser Gly Leu Arg Pro Arg

35 40 45

Gly Ala Pro Leu Gly Pro Pro Pro Pro Arg Gln Pro Gly Ala Leu Ala

50 55 60

Tyr Gly Ala Phe Gly Pro Pro Ser Ser Phe Gln Pro Phe Pro Ala Val

65 70 75 80

Pro Pro Pro Ala Ala Gly Ile Ala His Leu Gln Pro Val Ala Thr Pro

85 90 95

Tyr Pro Gly Arg Ala Ala Ala Pro Pro Asn Ala Pro Gly Gly Pro Pro

100 105 110

Gly Pro Gln Pro Ala Pro Ser Ala Ala Ala Pro Pro Pro Pro Ala His

115 120 125

Ala Leu Gly Gly Met Asp Ala Glu Leu Ile Asp Glu Glu Ala Leu Thr

130 135 140

Ser Leu Glu Leu Glu Leu Gly Leu His Arg Val Arg Glu Leu Pro Glu

145 150 155 160

Leu Phe Leu Gly Gln Ser Glu Phe Asp Cys Phe Ser Asp Leu Gly Ser

165 170 175

Ala Pro Pro Ala Gly Ser Val Ser Cys Gly Gly Ser Gly Gly Gly Ser

180 185 190

Gly Arg Pro His Ala Cys Pro Ala Glu Gly Cys Asp Arg Arg Phe Ser

195 200 205

Ser Pro Ala Asp Leu Thr Arg His Leu Arg Ile His Thr Gly His Lys

210 215 220

Pro Phe Gln Cys Arg Ile Cys Met Arg Ser Phe Ser Asp Ser Gly Asn

225 230 235 240

Leu Arg Val His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys

245 250 255

Glu Phe Cys Gly Arg Lys Phe Ala Gln Leu Ala His Leu Arg Ala His

260 265 270

Ala Lys Ile His Leu Lys Gln Lys Glu His Ala Cys Pro Ala Glu Gly

275 280 285

Cys Asp Arg Arg Phe Ser Gln Arg Ala Asn Leu Arg Ala His Leu Arg

290 295 300

Ile His Thr Gly His Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Ser

305 310 315 320

Phe Ser Arg Glu Asp Asn Leu His Thr His Ile Arg Thr His Thr Gly

325 330 335

Glu Lys Pro Phe Ala Cys Glu Phe Cys Gly Arg Lys Phe Ala Arg Ser

340 345 350

Asp Asn Leu Val Arg His Ala Lys Ile His Leu Lys Gln Lys Glu Lys

355 360 365

Leu Glu Met Ala Asp His Leu Met Leu Ala Glu Gly Tyr Arg Leu Val

370 375 380

Gln Arg Pro Pro Ser Ala Ala Ala Ala His Gly Pro His Ala Leu Arg

385 390 395 400

Thr Leu Pro Pro Tyr Ala Gly Pro Gly Leu Asp Ser Gly Leu Arg Pro

405 410 415

Arg Gly Ala Pro Leu Gly Pro Pro Pro Pro Arg Gln Pro Gly Ala Leu

420 425 430

Ala Tyr Gly Ala Phe Gly Pro Pro Ser Ser Phe Gln Pro Phe Pro Ala

435 440 445

Val Pro Pro Pro Ala Ala Gly Ile Ala His Leu Gln Pro Val Ala Thr

450 455 460

Pro Tyr Pro Gly Arg Ala Ala Ala Pro Pro Asn Ala Pro Gly Gly Pro

465 470 475 480

Pro Gly Pro Gln Pro Ala Pro Ser Ala Ala Ala Pro Pro Pro Pro Ala

485 490 495

His Ala Leu Gly Gly Met Asp Ala Glu Leu Ile Asp Glu Glu Ala Leu

500 505 510

Thr Ser Leu Glu Leu Glu Leu Gly Leu His Arg Val Arg Glu Leu Pro

515 520 525

Glu Leu Phe Leu Gly Gln Ser Glu Phe Asp Cys Phe Ser Asp Leu Gly

530 535 540

Ser Ala Pro Pro Ala Gly Ser Val Ser Cys

545 550

<210> 351

<211> 194

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 351

Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro Pro His Glu Arg Pro

1 5 10 15

Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Arg Ser Asp

20 25 30

Asn Leu Val Arg His Ile Arg Ile His Thr Gly Gln Lys Pro Phe Gln

35 40 45

Cys Arg Ile Cys Met Arg Asn Phe Ser His Arg Thr Thr Leu Thr Asn

50 55 60

His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys

65 70 75 80

Gly Arg Lys Phe Ala Arg Glu Asp Asn Leu His Thr His Ile Arg Thr

85 90 95

His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe

100 105 110

Ser Thr Ser His Ser Leu Thr Glu His Ile Arg Ile His Thr Gly Gln

115 120 125

Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Gln Ser Ser

130 135 140

Ser Leu Val Arg His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala

145 150 155 160

Cys Asp Ile Cys Gly Arg Lys Phe Ala Arg Glu Asp Asn Leu His Thr

165 170 175

His Thr Lys Ile His Leu Arg Gln Lys Asp Lys Lys Ala Asp Lys Ser

180 185 190

Val Val

<210> 352

<400> 352

000

<210> 353

<211> 4380

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

polinucleótido sintético

<400> 353

ggaggaagcc atcaactaaa ctacaatgac tgtaagatac aaaattggga atggtaacat 60

attttgaagt tctgttgaca taaagaatca tgatattaat gcccatggaa atgaaagggc 120

gatcaacact atggtttgaa aaggggggaaa ttgtagagca cagatgtgtt cgtgtggcag 180

tgtgctgtct ctagcaatac tcagagaaga gagagaacaa tgaaattctg attggcccca 240

gtgtgagccc agatgaggtt cagctgccaa ctttctcttt cacatcttat gaaagtcatt 300

taagcacaac taacttttttt ttttttttttt ttttttgag acagagtctt gctctgttgc 360

ccaggacaga gtgcagtagt gactcaatct cggctcactg cagcctccac ctcctaggct 420

caaacggtcc tcctgcatca gcctcccaag tagctggaat tacaggagtg gcccaccatg 480

cccagctaat ttttgtattt ttaatagata cgggggtttc accatatcac ccaggctggt 540

ctcgaactcc tggcctcaag tgatccacct gcctcggcct cccaaagtgc tgggattata 600

ggcgtcagcc actatgccca acccgaccaa ccttttttaa aataaatatt taaaaaattg 660

gtatttcaca tatatactag tatttacatt tatccacaca aaacggacgg gcctccgctg 720

aaccagtgag gccccagacg tgcgcataaa taacccctgc gtgctgcacc acctggggag 780

agggggagga ccacggtaaa tggagcgagc gcatagcaaa agggacgcgg ggtccttttc 840

tctgccggtg gcactgggta gctgtggcca ggtgtggtac tttgatgggg cccagggctg 900

gagctcaagg aagcgtcgca gggtcacaga tctgggggaa ccccggggaa aagcactgag 960

gcaaaaccgc cgctcgtctc ctacaatata tgggaggggg aggttgagta cgttctggat 1020

tactcataag acctttttttt tttccttccg ggcgcaaaac cgtgagctgg atttataatc 1080

gccctataaa gctccagagg cggtcaggca cctgcagagg agccccgccg ctccgccgac 1140

tagctgcccc cgcgagcaac ggcctcgtga tttccccgcc gatccggtcc ccgcctcccc 1200

actctgcccc cgcctacccc ggagccgtgc agccgcctct ccgaatctct ctcttctcct 1260

ggcgctcgcg tgcgagaggg aactagcgag aacgaggaag cagctggagg tgacgccggg 1320

cagattacgc ctgtcagggc cgagccgagc ggatcgctgg gcgctgtgca gaggaaaggc 1380

gggagtgccc ggctcgctgt cgcagagccg aggtgggtaa gctagcgacc acctggactt 1440

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polinucleótido sintético

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<213> Secuencia Artificial

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<223> Descripción de secuencia artificial:

polinucleótido sintético

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<223> Descripción de secuencia artificial:

polinucleótido sintético

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<211> 4002

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

polinucleótido sintético

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<223> Descripción de secuencia artificial:

polinucleótido sintético

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<210> 360

<211> 3861

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

polinucleótido sintético

<400> 360

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<210> 364

<211> 667

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 364

Met Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Gly Tyr Pro Tyr Asp Val

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Pro Asp Tyr Ala Gly Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Gly

20 25 30

Ser Gly Ser Gly Ser Ala Ala Ala Lys Ala Glu Met Gln Leu Met Ser

35 40 45

Pro Leu Gln Ile Ser Asp Pro Phe Gly Ser Phe Pro His Ser Pro Thr

50 55 60

Met Asp Asn Tyr Pro Lys Leu Glu Glu Met Met Leu Leu Ser Asn Gly

65 70 75 80

Ala Pro Gln Phe Leu Gly Ala Ala Gly Ala Pro Glu Gly Ser Gly Ser

85 90 95

Asn Ser Ser Ser Ser Ser Ser Gly Gly Gly Gly Gly Gly Gly Gly Gly

100 105 110

Ser Asn Ser Ser Ser Ser Ser Ser Thr Phe Asn Pro Gln Ala Asp Thr

115 120 125

Gly Glu Gln Pro Tyr Glu His Leu Thr Ala Glu Ser Phe Pro Asp Ile

130 135 140

Ser Leu Asn Asn Glu Lys Val Leu Val Glu Thr Ser Tyr Pro Ser Gln

145 150 155 160

Thr Thr Arg Leu Pro Pro Ile Thr Tyr Thr Gly Arg Phe Ser Leu Glu

165 170 175

Pro Ala Pro Asn Ser Gly Asn Thr Leu Trp Pro Glu Pro Leu Phe Ser

180 185 190

Leu Val Ser Gly Leu Val Ser Met Thr Asn Pro Pro Ala Ser Ser Ser

195 200 205

Ser Ala Pro Ser Pro Ala Ala Ser Ser Ala Ser Ala Ser Gln Ser Pro

210 215 220

Pro Leu Ser Cys Ala Val Pro Ser Asn Asp Ser Ser Pro Ile Tyr Ser

225 230 235 240

Ala Ala Pro Thr Phe Pro Thr Pro Asn Thr Asp Ile Phe Pro Glu Pro

245 250 255

Gln Ser Gln Ala Phe Pro Gly Ser Ala Gly Thr Ala Leu Gln Tyr Pro

260 265 270

Pro Pro Ala Tyr Pro Ala Ala Lys Gly Gly Phe Gln Val Pro Met Ile

275 280 285

Pro Asp Tyr Leu Phe Pro Gln Gln Gln Gly Asp Leu Gly Leu Gly Thr

290 295 300

Pro Asp Gln Lys Pro Phe Gln Gly Leu Glu Ser Arg Thr Gln Gln Pro

305 310 315 320

Ser Leu Thr Pro Leu Ser Thr Ile Lys Ala Phe Ala Thr Gln Ser Gly

325 330 335

Ser Gln Asp Leu Lys Ala Leu Asn Thr Ser Tyr Gln Ser Gln Leu Ile

340 345 350

Lys Pro Ser Arg Met Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro

355 360 365

Pro His Glu Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg

370 375 380

Phe Ser Arg Ser Asp Asn Leu Val Arg His Ile Arg Ile His Thr Gly

385 390 395 400

Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser His Arg

405 410 415

Thr Thr Leu Thr Asn His Ile Arg Thr His Thr Gly Glu Lys Pro Phe

420 425 430

Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Arg Glu Asp Asn Leu His

435 440 445

Thr His Thr Lys Ile His Leu Arg Gln Lys Asp Arg Pro Tyr Ala Cys

450 455 460

Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Thr Ser His Ser Leu Thr

465 470 475 480

Glu His Ile Arg Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile

485 490 495

Cys Met Arg Asn Phe Ser Gln Ser Ser Ser Leu Val Arg His Ile Arg

500 505 510

Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys

515 520 525

Phe Ala Arg Glu Asp Asn Leu His Thr His Thr Lys Ile His Leu Arg

530 535 540

Gln Lys Asp Lys Lys Ala Asp Lys Ser Val Val Ala Ser Ser Ala Thr

545 550 555 560

Ser Ser Leu Ser Ser Tyr Pro Ser Pro Val Ala Thr Ser Tyr Pro Ser

565 570 575

Pro Val Thr Thr Ser Tyr Pro Ser Pro Ala Thr Thr Ser Tyr Pro Ser

580 585 590

Pro Val Pro Thr Ser Phe Ser Ser Pro Gly Ser Ser Thr Tyr Pro Ser

595 600 605

Pro Val His Ser Gly Phe Pro Ser Pro Ser Val Ala Thr Thr Tyr Ser

610 615 620

Ser Val Pro Pro Ala Phe Pro Ala Gln Val Ser Ser Phe Pro Ser Ser

625 630 635 640

Ala Val Thr Asn Ser Phe Ser Ala Ser Thr Gly Leu Ser Asp Met Thr

645 650 655

Ala Thr Phe Ser Pro Arg Thr Ile Glu Ile Cys

660 665

<210> 365

<211> 272

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 365

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1 5 10 15

Ala Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

20 25 30

Ser Phe Ser Arg Ser Asp Asn Leu Val Arg His Gln Arg Thr His Thr

35 40 45

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser His

50 55 60

Arg Thr Thr Leu Thr Asn His Gln Arg Thr His Thr Gly Glu Lys Pro

65 70 75 80

Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Glu Asp Asn Leu

85 90 95

His Thr His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro

100 105 110

Glu Cys Gly Lys Ser Phe Ser Thr Ser His Ser Leu Thr Glu His Gln

115 120 125

Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

130 135 140

Ser Phe Ser Gln Ser Ser Ser Leu Val Arg His Gln Arg Thr His Thr

145 150 155 160

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg

165 170 175

Glu Asp Asn Leu His Thr His Gln Arg Thr His Thr Gly Lys Lys Thr

180 185 190

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

195 200 205

Lys Gly Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Leu Glu Asp Ala

210 215 220

Leu Asp Asp Phe Asp Leu Asp Met Leu Gly Ser Asp Ala Leu Asp Asp

225 230 235 240

Phe Asp Leu Asp Met Leu Gly Ser Asp Ala Leu Asp Asp Phe Asp Leu

245 250 255

Asp Met Leu Gly Ser Asp Ala Leu Asp Asp Phe Asp Leu Asp Met Leu

260 265 270

<210> 366

<211> 753

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 366

Met Ala Pro Lys Lys Lys Arg Lys Val Gly Ile His Gly Val Pro Ala

1 5 10 15

Ala Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

20 25 30

Ser Phe Ser Arg Ser Asp Asn Leu Val Arg His Gln Arg Thr His Thr

35 40 45

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser His

50 55 60

Arg Thr Thr Leu Thr Asn His Gln Arg Thr His Thr Gly Glu Lys Pro

65 70 75 80

Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Glu Asp Asn Leu

85 90 95

His Thr His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro

100 105 110

Glu Cys Gly Lys Ser Phe Ser Thr Ser His Ser Leu Thr Glu His Gln

115 120 125

Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

130 135 140

Ser Phe Ser Gln Ser Ser Ser Leu Val Arg His Gln Arg Thr His Thr

145 150 155 160

Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg

165 170 175

Glu Asp Asn Leu His Thr His Gln Arg Thr His Thr Gly Lys Lys Thr

180 185 190

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

195 200 205

Lys Gly Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Leu Glu Glu Ala

210 215 220

Ser Gly Ser Gly Arg Ala Asp Ala Leu Asp Asp Phe Asp Leu Asp Met

225 230 235 240

Leu Gly Ser Asp Ala Leu Asp Asp Phe Asp Leu Asp Met Leu Gly Ser
245 250 255

Asp Ala Leu Asp Asp Phe Asp Leu Asp Met Leu Gly Ser Asp Ala Leu
260 265 270

Asp Asp Phe Asp Leu Asp Met Leu Ile Asn Ser Arg Ser Ser Gly Ser
275 280 285

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

Asp Arg His Arg Ile Glu Glu Lys Arg Lys Arg Thr Tyr Glu Thr Phe
305 310 315 320

Lys Ser Ile Met Lys Lys Ser Pro Phe Ser Gly Pro Thr Asp Pro Arg
325 330 335

Pro Pro Pro Arg Arg Ile Ala Val Pro Ser Arg Ser Ser Ala Ser Val
340 345 350

Pro Lys Pro Ala Pro Gln Pro Tyr Pro Phe Thr Ser Ser Leu Ser Thr

355 360 365

Ile Asn Tyr Asp Glu Phe Pro Thr Met Val Phe Pro Ser Gly Gln Ile

370 375 380

Ser Gln Ala Ser Ala Leu Ala Pro Ala Pro Pro Gln Val Leu Pro Gln

385 390 395 400

Ala Pro Ala Pro Ala Pro Ala Pro Ala Met Val Ser Ala Leu Ala Gln

405 410 415

Ala Pro Ala Pro Val Pro Val Leu Ala Pro Gly Pro Pro Gln Ala Val

420 425 430

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

435 440 445

Glu Ala Leu Leu Gln Leu Gln Phe Asp Asp Glu Asp Leu Gly Ala Leu

450 455 460

Leu Gly Asn Ser Thr Asp Pro Ala Val Phe Thr Asp Leu Ala Ser Val

465 470 475 480

Asp Asn Ser Glu Phe Gln Gln Leu Leu Asn Gln Gly Ile Pro Val Ala

485 490 495

Pro His Thr Thr Glu Pro Met Leu Met Glu Tyr Pro Glu Ala Ile Thr

500 505 510

Arg Leu Val Thr Gly Ala Gln Arg Pro Pro Asp Pro Ala Pro Ala Pro

515 520 525

Leu Gly Ala Pro Gly Leu Pro Asn Gly Leu Leu Ser Gly Asp Glu Asp

530 535 540

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

545 550 555 560

Ser Gly Ser Arg Asp Ser Arg Glu Gly Met Phe Leu Pro Lys Pro Glu

565 570 575

Ala Gly Ser Ala Ile Ser Asp Val Phe Glu Gly Arg Glu Val Cys Gln

580 585 590

Pro Lys Arg Ile Arg Pro Phe His Pro Pro Gly Ser Pro Trp Ala Asn

595 600 605

Arg Pro Leu Pro Ala Ser Leu Ala Pro Thr Pro Thr Gly Pro Val His

610 615 620

Glu Pro Val Gly Ser Leu Thr Pro Ala Pro Val Pro Gln Pro Leu Asp

625 630 635 640

Pro Ala Pro Ala Val Thr Pro Glu Ala Ser His Leu Leu Glu Asp Pro

645 650 655

Asp Glu Glu Thr Ser Gln Ala Val Lys Ala Leu Arg Glu Met Ala Asp

660 665 670

Thr Val Ile Pro Gln Lys Glu Glu Ala Ala Ile Cys Gly Gln Met Asp

675 680 685

Leu Ser His Pro Pro Pro Arg Gly His Leu Asp Glu Leu Thr Thr Thr

690 695 700

Leu Glu Ser Met Thr Glu Asp Leu Asn Leu Asp Ser Pro Leu Thr Pro

705 710 715 720

Glu Leu Asn Glu Ile Leu Asp Thr Phe Leu Asn Asp Glu Cys Leu Leu

725 730 735

His Ala Met His Ile Ser Thr Gly Leu Ser Ile Phe Asp Thr Ser Leu

740 745 750

Phe

<210> 367

<211> 3803

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

polinucleótido sintético

<400> 367

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tatgttccca tagtaacgcc aatagggact ttccattgac gtcaatgggt ggagtattta 180

cggtaaactg cccacttggc agtacatcaa gtgtatcata tgccaagtac gccccctatt 240

gacgtcaatg acggtaaatg gcccgcctgg cattatgccc agtacatgac cttatgggac 300

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atttatttt taattatttt gtgcagcgat gggggcgggg gggggggggg cgcgcgccag 480

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ccacgtgcgg accgagcggc cgc 3803

<210> 368

<211> 3803

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

polinucleótido sintético

<400> 368

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tatgttccca tagtaacgcc aatagggact ttccattgac gtcaatgggt ggagtattta 180

cggtaaactg cccacttggc agtacatcaa gtgtatcata tgccaagtac gccccctatt 240

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cggaactcat cgccgcctgc cttgcccgct gctggacagg ggctcggctg ttgggcactg 3060

acaattccgt ggtgttgtcg gggaaatcat cgtcctttcc ttggctgctc gcctatgttg 3120

ccacctggat tctgcgcggg acgtccttct gctacgtccc ttcggccctc aatccagcgg 3180

accttccttc ccgcggcctg ctgccggctc tgcggcctct tccgcgtctt cgccttcgcc 3240

ctcagacgag tcggatctcc ctttgggccg cctccccgca gatctacggg tggcatccct 3300

gtgacccctc cccagtgcct ctcctggccc tggaagttgc cactccagtg cccaccagcc 3360

ttgtcctaat aaaattaagt tgcatcattt tgtctgacta ggtgtccttc tataatatta 3420

tggggtggag gggggtggta tggagcaagg ggcaagttgg gaagacaacc tgtagggcct 3480

gcggggtcta ttgggaacca agctggagtg cagtggcaca atcttggctc actgcaatct 3540

ccgcctcctg ggttcaagcg attctcctgc ctcagcctcc cgagttgttg ggattccagg 3600

catgcatgac caggctcagc taatttttgt ttttttggta gagacggggt ttcaccatat 3660

tggccaggct ggtctccaac tcctaatctc aggtgatcta cccaccttgg cctcccaaat 3720

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ccacgtgcgg accgagcggc cgc 3803

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<213> Secuencia Artificial

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primer

<400> 369

gctaccccga ccacatgaag 20

<210> 370

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<213> Secuencia Artificial

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<223> Descripción de secuencia artificial:

primer

<400> 370

tcttgtagtt gccgtcgtcc 20

<210> 371

<211> 292

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Polipéptido sintético

<220>

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<222> (8)..(57)

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<220>

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<220>

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<220>

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<222> (122)..(171)

<223> Cualquier amino ácido

<220>

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<220>

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<222> (179)..(228)

<223> Cualquier amino ácido

<220>

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<222> (179)..(228)

<223> Esta región puede abarcar 1-50 residuos

<220>

<221> MOD_RES

<222> (236)..(285)

<223> Cualquier amino ácido

<220>

<221> MISC_FEATURE

<222> (236)..(285)

<223> Esta región puede abarcar 1-50 residuos

<400> 371

Arg Ser Asp Asn Leu Val Arg Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa His Arg Thr Thr Leu Thr Asn

50 55 60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

65 70 75 80

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

85 90 95

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

100 105 110

Xaa Xaa Arg Glu Asp Asn Leu His Thr Xaa Xaa Xaa Xaa Xaa Xaa Xaa

115 120 125

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

130 135 140

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

145 150 155 160

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Thr Ser His Ser Leu

165 170 175

Thr Glu Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

180 185 190

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

195 200 205

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

210 215 220

Xaa Xaa Xaa Xaa Gln Ser Ser Ser Leu Val Arg Xaa Xaa Xaa Xaa Xaa

225 230 235 240

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

245 250 255

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

260 265 270

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Arg Glu Asp

275 280 285

Asn Leu His Thr

290

<210> 372

<211> 463

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

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<220>

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<223> Cualquier amino ácido

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<223> Esta región puede abarcar 1-50 residuos

<220>

<221> MOD_RES

<222> (236)..(285)

<223> Cualquier amino ácido

<220>

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<222> (236)..(285)

<223> Esta región puede abarcar 1-50 residuos

<220>

<221> MOD_RES

<222> (293)..(342)

<223> Cualquier amino ácido

<220>

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<222> (293)..(342)

<223> Esta región puede abarcar 1-50 residuos

<220>

<221> MOD_RES

<222> (350)..(399)

<223> Cualquier amino ácido

<220>

<221> MISC_FEATURE

<222> (350)..(399)

<223> Esta región puede abarcar 1-50 residuos

<220>

<221> MOD_RES

<222> (407)..(456)

<223> Cualquier amino ácido

<220>

<221> MISC_FEATURE

<222> (407)..(456)

<223> Esta región puede abarcar 1-50 residuos

<400> 372

Arg Arg Asp Glu Leu Asn Val Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Arg Ser Asp His Leu Thr Asn

50 55 60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

65 70 75 80

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

85 90 95

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

100 105 110

Xaa Xaa Arg Ser Asp Asp Leu Val Arg Xaa Xaa Xaa Xaa Xaa Xaa Xaa

115 120 125

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

130 135 140

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

145 150 155 160

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Arg Ser Asp Asn Leu

165 170 175

Val Arg Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

180 185 190

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

195 200 205

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

210 215 220

Xaa Xaa Xaa Xaa His Arg Thr Thr Leu Thr Asn Xaa Xaa Xaa Xaa Xaa

225 230 235 240

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

245 250 255

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

260 265 270

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Arg Glu Asp

275 280 285

Asn Leu His Thr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

290 295 300

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

305 310 315 320

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

325 330 335

Xaa Xaa Xaa Xaa Xaa Xaa Thr Ser His Ser Leu Thr Glu Xaa Xaa Xaa

340 345 350

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

355 360 365

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

370 375 380

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Gln

385 390 395 400

Ser Ser Ser Leu Val Arg Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

405 410 415

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

420 425 430

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

435 440 445

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Arg Glu Asp Asn Leu His Thr

450 455 460

<210> 373

<211> 9

<212> DNA

<213> Secuencia Artificial

<220>

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oligonucleótidos sintéticos

<400> 373

gcgkgggcg 9

<210> 374

<211> 20

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

primer

<400> 374

caaaaaagcc acaaaagcct 20

<210> 375

<211> 20

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

primer

<400> 375

ttagctccgc aagaaacatc 20

<210> 376

<211> 292

<212> PRT

<213> Secuencia Artificial

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<223> Descripción de secuencia artificial:

Polipéptido sintético

<220>

<221> MOD_RES

<222> (8)..(57)

<223> Cualquier amino ácido

<220>

<221> MISC_FEATURE

<222> (8)..(57)

<223> Esta región puede abarcar 1-50 residuos

<220>

<221> MOD_RES

<222> (65)..(114)

<223> Cualquier amino ácido

<220>

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<222> (65)..(114)

<223> Esta región puede abarcar 1-50 residuos

<220>

<221> MOD_RES

<222> (122)..(171)

<223> Cualquier amino ácido

<220>

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<222> (122)..(171)

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<220>

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<222> (179)..(228)

<223> Cualquier amino ácido

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<222> (179)..(228)

<223> Esta región puede abarcar 1-50 residuos

<220>

<221> MOD_RES

<222> (236)..(285)

<223> Cualquier amino ácido

<220>

<221> MISC_FEATURE

<222> (236)..(285)

<223> Esta región puede abarcar 1-50 residuos

<400> 376

Asp Pro Gly Ala Leu Val Arg Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Arg Ser Asp Asn Leu Val Arg

50 55 60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

65 70 75 80

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

85 90 95

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

100 105 110

Xaa Xaa Gln Ser Gly Asp Leu Arg Arg Xaa Xaa Xaa Xaa Xaa Xaa Xaa

115 120 125

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

130 135 140

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

145 150 155 160

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Thr His Leu Asp Leu

165 170 175

Ile Arg Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

180 185 190

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

195 200 205

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

210 215 220

Xaa Xaa Xaa Xaa Thr Ser Gly Asn Leu Val Arg Xaa Xaa Xaa Xaa Xaa

225 230 235 240

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

245 250 255

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

260 265 270

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Arg Ser Asp

275 280 285

Asn Leu Val Arg

290

<210> 377

<211> 176

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 377

Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

1 5 10 15

Phe Ser Thr Ser His Ser Leu Thr Glu His Gln Arg Thr His Thr Gly

20 25 30

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Asp Cys

35 40 45

Arg Asp Leu Ala Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr

50 55 60

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Thr Thr Gly Asn Leu Thr

65 70 75 80

Val His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu

85 90 95

Cys Gly Lys Ser Phe Ser Asp Pro Gly Ala Leu Val Arg His Gln Arg

100 105 110

Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

115 120 125

Phe Ser Thr His Leu Asp Leu Ile Arg His Gln Arg Thr His Thr Gly

130 135 140

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser His Thr

145 150 155 160

Gly His Leu Leu Glu His Gln Arg Thr His Thr Gly Lys Lys Thr Ser

165 170 175

<210> 378

<211> 192

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 378

Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

1 5 10 15

Phe Ser Arg Asn Asp Thr Leu Thr Glu His Gln Arg Thr His Thr Gly

20 25 30

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Asp Pro

35 40 45

Gly Ala Leu Val Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr

50 55 60

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Thr Ser Gly Glu Leu Val

65 70 75 80

Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu

85 90 95

Cys Gly Lys Ser Phe Ser Arg Ser Asp Asn Leu Val Arg His Gln Arg

100 105 110

Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

115 120 125

Phe Ser Thr Ser Gly Glu Leu Val Arg His Gln Arg Thr His Thr Gly

130 135 140

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Thr Lys

145 150 155 160

Asn Ser Leu Thr Glu His Gln Arg Thr His Thr Gly Lys Lys Thr Ser

165 170 175

Lys Arg Pro Ala Ala Thr Lys Lys Ala Gly Gln Ala Lys Lys Lys Lys

180 185 190

<210> 379

<211> 204

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 379

Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

1 5 10 15

Phe Ser Thr Ser Gly Asn Leu Thr Glu His Gln Arg Thr His Thr Gly

20 25 30

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Ala

35 40 45

Asp Asn Leu Thr Glu His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr

50 55 60

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Ser Pro Ala Asp Leu Thr

65 70 75 80

Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu

85 90 95

Cys Gly Lys Ser Phe Ser Gln Ser Ser Asn Leu Val Arg His Gln Arg

100 105 110

Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

115 120 125

Phe Ser Gln Arg Ala Asn Leu Arg Ala His Gln Arg Thr His Thr Gly

130 135 140

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Leu

145 150 155 160

Ala His Leu Arg Ala His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr

165 170 175

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser His Arg Thr Thr Leu Thr

180 185 190

Asn His Gln Arg Thr His Thr Gly Lys Lys Thr Ser

195 200

<210> 380

<211> 176

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 380

Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

1 5 10 15

Phe Ser Ser Pro Ala Asp Leu Thr Arg His Gln Arg Thr His Thr Gly

20 25 30

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Asp Ser

35 40 45

Gly Asn Leu Arg Val His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr

50 55 60

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Leu Ala His Leu Arg

65 70 75 80

Ala His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu

85 90 95

Cys Gly Lys Ser Phe Ser Gln Arg Ala Asn Leu Arg Ala His Gln Arg

100 105 110

Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

115 120 125

Phe Ser Arg Glu Asp Asn Leu His Thr His Gln Arg Thr His Thr Gly

130 135 140

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Ser

145 150 155 160

Asp Asn Leu Val Arg His Gln Arg Thr His Thr Gly Lys Lys Thr Ser

165 170 175

<210> 381

<211> 176

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 381

Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

1 5 10 15

Phe Ser Ser Pro Ala Asp Leu Thr Arg His Gln Arg Thr His Thr Gly

20 25 30

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Asp Ser

35 40 45

Gly Asn Leu Arg Val His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr

50 55 60

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Leu Ala His Leu Arg

65 70 75 80

Ala His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu

85 90 95

Cys Gly Lys Ser Phe Ser Gln Arg Ala Asn Leu Arg Ala His Gln Arg

100 105 110

Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

115 120 125

Phe Ser Arg Glu Asp Asn Leu His Thr His Gln Arg Thr His Thr Gly

130 135 140

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Ser

145 150 155 160

Asp Asn Leu Val Arg His Gln Arg Thr His Thr Gly Lys Lys Thr Ser

165 170 175

<210> 382

<211> 176

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 382

Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser
1 5 10 15

Phe Ser Ser Pro Ala Asp Leu Thr Arg His Gln Arg Thr His Thr Gly
20 25 30

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Asp Ser
35 40 45

Gly Asn Leu Arg Val His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr
50 55 60

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Leu Ala His Leu Arg
65 70 75 80

Ala His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu

85 90 95

Cys Gly Lys Ser Phe Ser Gln Arg Ala Asn Leu Arg Ala His Gln Arg

100 105 110

Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

115 120 125

Phe Ser Arg Glu Asp Asn Leu His Thr His Gln Arg Thr His Thr Gly

130 135 140

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Ser

145 150 155 160

Asp Asn Leu Val Arg His Gln Arg Thr His Thr Gly Lys Lys Thr Ser

165 170 175

<210> 383

<211> 176

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 383

Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser
1 5 10 15

Phe Ser Ser Pro Ala Asp Leu Thr Arg His Gln Arg Thr His Thr Gly
20 25 30

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Asp Ser
35 40 45

Gly Asn Leu Arg Val His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr
50 55 60

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Leu Ala His Leu Arg
65 70 75 80

Ala His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu
85 90 95

Cys Gly Lys Ser Phe Ser Gln Arg Ala Asn Leu Arg Ala His Gln Arg
100 105 110

Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

115 120 125

Phe Ser Arg Glu Asp Asn Leu His Thr His Gln Arg Thr His Thr Gly

130 135 140

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Ser

145 150 155 160

Asp Asn Leu Val Arg His Gln Arg Thr His Thr Gly Lys Lys Thr Ser

165 170 175

<210> 384

<211> 260

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 384

Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

1 5 10 15

Phe Ser Thr Ser His Ser Leu Thr Glu His Gln Arg Thr His Thr Gly

20 25 30

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser His Lys
35 40 45

Asn Ala Leu Gln Asn His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr
50 55 60

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Glu Arg Ser His Leu Arg
65 70 75 80

Glu His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu
85 90 95

Cys Gly Lys Ser Phe Ser Ser Lys Lys Ala Leu Thr Glu His Gln Arg
100 105 110

Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser
115 120 125

Phe Ser Gln Arg Ala Asn Leu Arg Ala His Gln Arg Thr His Thr Gly
130 135 140

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Lys

145 150 155 160

Asp Asn Leu Lys Asn His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr

165 170 175

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Ser Ser Asn Leu Val

180 185 190

Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu

195 200 205

Cys Gly Lys Ser Phe Ser Gln Ser Ser Ser Leu Val Arg His Gln Arg

210 215 220

Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

225 230 235 240

Phe Ser Gln Ala Gly His Leu Ala Ser His Gln Arg Thr His Thr Gly

245 250 255

Lys Lys Thr Ser

260

<210> 385

<211> 190

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 385

Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro Pro His Glu Arg Pro
1 5 10 15

Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Ser Pro Ala
20 25 30

Asp Leu Thr Arg His Ile Arg Ile His Thr Gly Gln Lys Pro Phe Gln
35 40 45

Cys Arg Ile Cys Met Arg Asn Phe Ser Asp Ser Gly Asn Leu Arg Val
50 55 60

His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys
65 70 75 80

Gly Arg Lys Phe Ala Gln Leu Ala His Leu Arg Ala His Thr Lys Ile

85 90 95

His Leu Arg Gln Lys Asp Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys

100 105 110

Asp Arg Arg Phe Ser Gln Arg Ala Asn Leu Arg Ala His Ile Arg Ile

115 120 125

His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe

130 135 140

Ser Arg Glu Asp Asn Leu His Thr His Ile Arg Thr His Thr Gly Glu

145 150 155 160

Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Arg Ser Asp

165 170 175

Asn Leu Val Arg His Thr Lys Ile His Leu Arg Gln Lys Asp

180 185 190

<210> 386

<211> 191

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 386

Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro Pro His Glu Arg Pro

1 5 10 15

Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Ser Pro Ala

20 25 30

Asp Leu Thr Arg His Ile Arg Ile His Thr Gly Gln Lys Pro Phe Gln

35 40 45

Cys Arg Ile Cys Met Arg Asn Phe Ser Asp Ser Gly Asn Leu Arg Val

50 55 60

His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys

65 70 75 80

Gly Arg Lys Phe Ala Gln Leu Ala His Leu Arg Ala His Thr Lys Ile

85 90 95

His Leu Arg Gln Lys Asp Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys

100 105 110

Asp Arg Arg Phe Ser Gln Arg Ala Asn Leu Arg Ala His Ile Arg Ile

115 120 125

His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe

130 135 140

Ser Arg Glu Asp Asn Leu His Thr His Ile Arg Thr His Thr Gly Glu

145 150 155 160

Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Arg Ser Asp

165 170 175

Asn Leu Val Arg His Thr Lys Ile His Leu Arg Gln Lys Asp Lys

180 185 190

<210> 387

<211> 172

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 387

His Ala Cys Pro Ala Glu Gly Cys Asp Arg Arg Phe Ser Ser Pro Ala
1 5 10 15

Asp Leu Thr Arg His Leu Arg Ile His Thr Gly His Lys Pro Phe Gln
20 25 30

Cys Arg Ile Cys Met Arg Ser Phe Ser Asp Ser Gly Asn Leu Arg Val
35 40 45

His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Glu Phe Cys
50 55 60

Gly Arg Lys Phe Ala Gln Leu Ala His Leu Arg Ala His Ala Lys Ile
65 70 75 80

His Leu Lys Gln Lys Glu His Ala Cys Pro Ala Glu Gly Cys Asp Arg
85 90 95

Arg Phe Ser Gln Arg Ala Asn Leu Arg Ala His Leu Arg Ile His Thr
100 105 110

Gly His Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Ser Phe Ser Arg

115 120 125

Glu Asp Asn Leu His Thr His Ile Arg Thr His Thr Gly Glu Lys Pro

130 135 140

Phe Ala Cys Glu Phe Cys Gly Arg Lys Phe Ala Arg Ser Asp Asn Leu

145 150 155 160

Val Arg His Ala Lys Ile His Leu Lys Gln Lys Glu

165 170

<210> 388

<211> 172

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 388

His Ala Cys Pro Ala Glu Gly Cys Asp Arg Arg Phe Ser Ser Pro Ala

1 5 10 15

Asp Leu Thr Arg His Leu Arg Ile His Thr Gly His Lys Pro Phe Gln

20 25 30

Cys Arg Ile Cys Met Arg Ser Phe Ser Asp Ser Gly Asn Leu Arg Val
35 40 45

His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Glu Phe Cys
50 55 60

Gly Arg Lys Phe Ala Gln Leu Ala His Leu Arg Ala His Ala Lys Ile
65 70 75 80

His Leu Lys Gln Lys Glu His Ala Cys Pro Ala Glu Gly Cys Asp Arg
85 90 95

Arg Phe Ser Gln Arg Ala Asn Leu Arg Ala His Leu Arg Ile His Thr
100 105 110

Gly His Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Ser Phe Ser Arg
115 120 125

Glu Asp Asn Leu His Thr His Ile Arg Thr His Thr Gly Glu Lys Pro
130 135 140

Phe Ala Cys Glu Phe Cys Gly Arg Lys Phe Ala Arg Ser Asp Asn Leu

145 150 155 160

Val Arg His Ala Lys Ile His Leu Lys Gln Lys Glu

165 170

<210> 389

<211> 172

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 389

His Ala Cys Pro Ala Glu Gly Cys Asp Arg Arg Phe Ser Ser Pro Ala

1 5 10 15

Asp Leu Thr Arg His Leu Arg Ile His Thr Gly His Lys Pro Phe Gln

20 25 30

Cys Arg Ile Cys Met Arg Ser Phe Ser Asp Ser Gly Asn Leu Arg Val

35 40 45

His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Glu Phe Cys

50 55 60

Gly Arg Lys Phe Ala Gln Leu Ala His Leu Arg Ala His Ala Lys Ile
65 70 75 80

His Leu Lys Gln Lys Glu His Ala Cys Pro Ala Glu Gly Cys Asp Arg
85 90 95

Arg Phe Ser Gln Arg Ala Asn Leu Arg Ala His Leu Arg Ile His Thr
100 105 110

Gly His Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Ser Phe Ser Arg
115 120 125

Glu Asp Asn Leu His Thr His Ile Arg Thr His Thr Gly Glu Lys Pro
130 135 140

Phe Ala Cys Glu Phe Cys Gly Arg Lys Phe Ala Arg Ser Asp Asn Leu
145 150 155 160

Val Arg His Ala Lys Ile His Leu Lys Gln Lys Glu
165 170

<210> 390

<211> 184

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 390

Met Ala Asp His Leu Met Leu Ala Glu Gly Tyr Arg Leu Val Gln Arg
1 5 10 15

Pro Pro Ser Ala Ala Ala Ala His Gly Pro His Ala Leu Arg Thr Leu
20 25 30

Pro Pro Tyr Ala Gly Pro Gly Leu Asp Ser Gly Leu Arg Pro Arg Gly
35 40 45

Ala Pro Leu Gly Pro Pro Pro Pro Arg Gln Pro Gly Ala Leu Ala Tyr
50 55 60

Gly Ala Phe Gly Pro Pro Ser Ser Phe Gln Pro Phe Pro Ala Val Pro
65 70 75 80

Pro Pro Ala Ala Gly Ile Ala His Leu Gln Pro Val Ala Thr Pro Tyr

85 90 95

Pro Gly Arg Ala Ala Ala Pro Pro Asn Ala Pro Gly Gly Pro Pro Gly

100 105 110

Pro Gln Pro Ala Pro Ser Ala Ala Ala Pro Pro Pro Pro Ala His Ala

115 120 125

Leu Gly Gly Met Asp Ala Glu Leu Ile Asp Glu Glu Ala Leu Thr Ser

130 135 140

Leu Glu Leu Glu Leu Gly Leu His Arg Val Arg Glu Leu Pro Glu Leu

145 150 155 160

Phe Leu Gly Gln Ser Glu Phe Asp Cys Phe Ser Asp Leu Gly Ser Ala

165 170 175

Pro Pro Ala Gly Ser Val Ser Cys

180

<210> 391

<211> 204

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 391

Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

1 5 10 15

Phe Ser Asp Pro Gly His Leu Val Arg His Gln Arg Thr His Thr Gly

20 25 30

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Thr Lys

35 40 45

Asn Ser Leu Thr Glu His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr

50 55 60

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Asn Asp Ala Leu Thr

65 70 75 80

Glu His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu

85 90 95

Cys Gly Lys Ser Phe Ser Glu Arg Ser His Leu Arg Glu His Gln Arg

100 105 110

Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

115 120 125

Phe Ser Ser Lys Lys His Leu Ala Glu His Gln Arg Thr His Thr Gly

130 135 140

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Thr His

145 150 155 160

Leu Asp Leu Ile Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr

165 170 175

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Ser Gly Asn Leu Thr

180 185 190

Glu His Gln Arg Thr His Thr Gly Lys Lys Thr Ser

195 200

<210> 392

<211> 176

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 392

Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

1 5 10 15

Phe Ser Ser Arg Arg Thr Cys Arg Ala His Gln Arg Thr His Thr Gly

20 25 30

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Thr Thr

35 40 45

Gly Ala Leu Thr Glu His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr

50 55 60

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Ser Asp Glu Leu Val

65 70 75 80

Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu

85 90 95

Cys Gly Lys Ser Phe Ser Arg Asn Asp Ala Leu Thr Glu His Gln Arg

100 105 110

Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

115 120 125

Phe Ser Gln Ser Gly Asp Leu Arg Arg His Gln Arg Thr His Thr Gly

130 135 140

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Thr Ser

145 150 155 160

His Ser Leu Thr Glu His Gln Arg Thr His Thr Gly Lys Lys Thr Ser

165 170 175

<210> 393

<211> 176

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 393

Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

1 5 10 15

Phe Ser Arg Lys Asp Asn Leu Lys Asn His Gln Arg Thr His Thr Gly

20 25 30

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Asp Pro

35 40 45

Gly Ala Leu Val Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr

50 55 60

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Glu Asp Asn Leu His

65 70 75 80

Thr His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu

85 90 95

Cys Gly Lys Ser Phe Ser Asp Pro Gly Ala Leu Val Arg His Gln Arg

100 105 110

Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

115 120 125

Phe Ser Thr Ser Gly Glu Leu Val Arg His Gln Arg Thr His Thr Gly

130 135 140

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Lys

145 150 155 160

Asp Asn Leu Lys Asn His Gln Arg Thr His Thr Gly Lys Lys Thr Ser

165 170 175

<210> 394

<211> 176

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 394

Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

1 5 10 15

Phe Ser Arg Ser Asp Asn Leu Val Arg His Gln Arg Thr His Thr Gly

20 25 30

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Glu

35 40 45

Asp Asn Leu His Thr His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr

50 55 60

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Ser Asp Glu Leu Val

65 70 75 80

Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu

85 90 95

Cys Gly Lys Ser Phe Ser Gln Ser Gly Asn Leu Thr Glu His Gln Arg

100 105 110

Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

115 120 125

Phe Ser Thr Ser Gly His Leu Val Arg His Gln Arg Thr His Thr Gly

130 135 140

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Asn

145 150 155 160

Ser Thr Leu Thr Glu His Gln Arg Thr His Thr Gly Lys Lys Thr Ser

165 170 175

<210> 395

<211> 232

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 395

Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

1 5 10 15

Phe Ser Ser Lys Lys Ala Leu Thr Glu His Gln Arg Thr His Thr Gly

20 25 30

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Ser Pro

35 40 45

Ala Asp Leu Thr Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr

50 55 60

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Ser Asp Asn Leu Val

65 70 75 80

Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu

85 90 95

Cys Gly Lys Ser Phe Ser Arg Glu Asp Asn Leu His Thr His Gln Arg

100 105 110

Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

115 120 125

Phe Ser Arg Ser Asp Glu Leu Val Arg His Gln Arg Thr His Thr Gly

130 135 140

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Ser

145 150 155 160

Gly Asn Leu Thr Glu His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr

165 170 175

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Thr Ser Gly His Leu Val

180 185 190

Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu

195 200 205

Cys Gly Lys Ser Phe Ser Gln Asn Ser Thr Leu Thr Glu His Gln Arg

210 215 220

Thr His Thr Gly Lys Lys Thr Ser

225 230

<210> 396

<211> 176

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 396

Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

1 5 10 15

Phe Ser Ser Pro Ala Asp Leu Thr Arg His Gln Arg Thr His Thr Gly

20 25 30

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Ser

35 40 45

Asp Asn Leu Val Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr

50 55 60

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Glu Asp Asn Leu His

65 70 75 80

Thr His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu

85 90 95

Cys Gly Lys Ser Phe Ser Arg Ser Asp Glu Leu Val Arg His Gln Arg

100 105 110

Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

115 120 125

Phe Ser Gln Ser Gly Asn Leu Thr Glu His Gln Arg Thr His Thr Gly

130 135 140

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Thr Ser

145 150 155 160

Gly His Leu Val Arg His Gln Arg Thr His Thr Gly Lys Lys Thr Ser

165 170 175

<210> 397

<211> 176

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 397

Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

1 5 10 15

Phe Ser Ser Lys Lys Ala Leu Thr Glu His Gln Arg Thr His Thr Gly

20 25 30

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Ser Pro

35 40 45

Ala Asp Leu Thr Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr

50 55 60

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Ser Asp Asn Leu Val

65 70 75 80

Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu

85 90 95

Cys Gly Lys Ser Phe Ser Arg Glu Asp Asn Leu His Thr His Gln Arg

100 105 110

Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

115 120 125

Phe Ser Arg Ser Asp Glu Leu Val Arg His Gln Arg Thr His Thr Gly

130 135 140

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Ser

145 150 155 160

Gly Asn Leu Thr Glu His Gln Arg Thr His Thr Gly Lys Lys Thr Ser

165 170 175

<210> 398

<211> 232

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 398

Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

1 5 10 15

Phe Ser Asp Cys Arg Asp Leu Ala Arg His Gln Arg Thr His Thr Gly

20 25 30

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Asn

35 40 45

Asp Ala Leu Thr Glu His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr

50 55 60

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Asn Asp Ala Leu Thr

65 70 75 80

Glu His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu

85 90 95

Cys Gly Lys Ser Phe Ser Ser Pro Ala Asp Leu Thr Arg His Gln Arg

100 105 110

Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

115 120 125

Phe Ser Asp Pro Gly Asn Leu Val Arg His Gln Arg Thr His Thr Gly

130 135 140

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Arg

145 150 155 160

Ala His Leu Glu Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr

165 170 175

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Ser Ser Ser Leu Val

180 185 190

Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu

195 200 205

Cys Gly Lys Ser Phe Ser His Arg Thr Thr Leu Thr Asn His Gln Arg

210 215 220

Thr His Thr Gly Lys Lys Thr Ser

225 230

<210> 399

<211> 176

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 399

Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

1 5 10 15

Phe Ser Arg Asn Asp Ala Leu Thr Glu His Gln Arg Thr His Thr Gly

20 25 30

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Ser Pro

35 40 45

Ala Asp Leu Thr Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr

50 55 60

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Asp Pro Gly Asn Leu Val

65 70 75 80

Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu

85 90 95

Cys Gly Lys Ser Phe Ser Gln Arg Ala His Leu Glu Arg His Gln Arg

100 105 110

Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

115 120 125

Phe Ser Gln Ser Ser Ser Leu Val Arg His Gln Arg Thr His Thr Gly

130 135 140

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser His Arg

145 150 155 160

Thr Thr Leu Thr Asn His Gln Arg Thr His Thr Gly Lys Lys Thr Ser

165 170 175

<210> 400

<211> 176

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 400

Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

1 5 10 15

Phe Ser Thr Lys Asn Ser Leu Thr Glu His Gln Arg Thr His Thr Gly

20 25 30

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Ala

35 40 45

Asp Asn Leu Thr Glu His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr

50 55 60

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Leu Ala His Leu Arg

65 70 75 80

Ala His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu

85 90 95

Cys Gly Lys Ser Phe Ser Thr Lys Asn Ser Leu Thr Glu His Gln Arg

100 105 110

Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

115 120 125

Phe Ser Gln Ala Gly His Leu Ala Ser His Gln Arg Thr His Thr Gly

130 135 140

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Thr His

145 150 155 160

Leu Asp Leu Ile Arg His Gln Arg Thr His Thr Gly Lys Lys Thr Ser

165 170 175

<210> 401

<211> 204

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 401

Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

1 5 10 15

Phe Ser Arg Asn Asp Ala Leu Thr Glu His Gln Arg Thr His Thr Gly

20 25 30

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Asp Pro

35 40 45

Gly His Leu Val Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr

50 55 60

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Thr Ser Gly Glu Leu Val

65 70 75 80

Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu

85 90 95

Cys Gly Lys Ser Phe Ser Thr His Leu Asp Leu Ile Arg His Gln Arg

100 105 110

Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

115 120 125

Phe Ser Ser Lys Lys Ala Leu Thr Glu His Gln Arg Thr His Thr Gly

130 135 140

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Leu

145 150 155 160

Ala His Leu Arg Ala His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr

165 170 175

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Ser Asp His Leu Thr

180 185 190

Asn His Gln Arg Thr His Thr Gly Lys Lys Thr Ser

195 200

<210> 402

<211> 176

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 402

Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

1 5 10 15

Phe Ser Arg Ser Asp Asn Leu Val Arg His Gln Arg Thr His Thr Gly

20 25 30

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser His Arg

35 40 45

Thr Thr Leu Thr Asn His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr

50 55 60

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Glu Asp Asn Leu His

65 70 75 80

Thr His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu

85 90 95

Cys Gly Lys Ser Phe Ser Thr Ser His Ser Leu Thr Glu His Gln Arg

100 105 110

Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

115 120 125

Phe Ser Gln Ser Ser Ser Leu Val Arg His Gln Arg Thr His Thr Gly

130 135 140

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Glu

145 150 155 160

Asp Asn Leu His Thr His Gln Arg Thr His Thr Gly Lys Lys Thr Ser

165 170 175

<210> 403

<211> 176

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 403

Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

1 5 10 15

Phe Ser Asp Pro Gly Ala Leu Val Arg His Gln Arg Thr His Thr Gly

20 25 30

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Ser

35 40 45

Asp Asn Leu Val Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr

50 55 60

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Ser Gly Asp Leu Arg

65 70 75 80

Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu

85 90 95

Cys Gly Lys Ser Phe Ser Thr His Leu Asp Leu Ile Arg His Gln Arg

100 105 110

Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

115 120 125

Phe Ser Thr Ser Gly Asn Leu Val Arg His Gln Arg Thr His Thr Gly

130 135 140

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Ser

145 150 155 160

Asp Asn Leu Val Arg His Gln Arg Thr His Thr Gly Lys Lys Thr Ser

165 170 175

<210> 404

<211> 176

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 404

Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser
1 5 10 15

Phe Ser Gln Ala Gly His Leu Ala Ser His Gln Arg Thr His Thr Gly
20 25 30

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Glu
35 40 45

Asp Asn Leu His Thr His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr
50 55 60

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Thr Ser Gly Asn Leu Thr
65 70 75 80

Glu His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu

85 90 95

Cys Gly Lys Ser Phe Ser Thr His Leu Asp Leu Ile Arg His Gln Arg

100 105 110

Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

115 120 125

Phe Ser Gln Lys Ser Ser Leu Ile Ala His Gln Arg Thr His Thr Gly

130 135 140

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Ala

145 150 155 160

Gly His Leu Ala Ser His Gln Arg Thr His Thr Gly Lys Lys Thr Ser

165 170 175

<210> 405

<211> 176

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 405

Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser
1 5 10 15

Phe Ser Thr Thr Gly Asn Leu Thr Val His Gln Arg Thr His Thr Gly
20 25 30

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Thr Ser
35 40 45

Gly Glu Leu Val Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr
50 55 60

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Glu Asp Asn Leu His
65 70 75 80

Thr His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu
85 90 95

Cys Gly Lys Ser Phe Ser Thr Ser Gly Asn Leu Thr Glu His Gln Arg
100 105 110

Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

115 120 125

Phe Ser Gln Ser Ser Ser Leu Val Arg His Gln Arg Thr His Thr Gly

130 135 140

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Arg

145 150 155 160

Ala Asn Leu Arg Ala His Gln Arg Thr His Thr Gly Lys Lys Thr Ser

165 170 175

<210> 406

<211> 198

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 406

Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro Pro His Glu Arg Pro

1 5 10 15

Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Arg Ser Asp

20 25 30

Asn Leu Val Arg His Ile Arg Ile His Thr Gly Gln Lys Pro Phe Gln

35 40 45

Cys Arg Ile Cys Met Arg Asn Phe Ser His Arg Thr Thr Leu Thr Asn

50 55 60

His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys

65 70 75 80

Gly Arg Lys Phe Ala Arg Glu Asp Asn Leu His Thr His Thr Lys Ile

85 90 95

His Leu Arg Gln Lys Asp Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys

100 105 110

Asp Arg Arg Phe Ser Thr Ser His Ser Leu Thr Glu His Ile Arg Ile

115 120 125

His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe

130 135 140

Ser Gln Ser Ser Ser Leu Val Arg His Ile Arg Thr His Thr Gly Glu

145 150 155 160

Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Arg Glu Asp

165 170 175

Asn Leu His Thr His Thr Lys Ile His Leu Arg Gln Lys Asp Lys Lys

180 185 190

Ala Asp Lys Ser Val Val

195

<210> 407

<211> 630

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 407

Ala Ala Ala Lys Ala Glu Met Gln Leu Met Ser Pro Leu Gln Ile Ser

1 5 10 15

Asp Pro Phe Gly Ser Phe Pro His Ser Pro Thr Met Asp Asn Tyr Pro

20 25 30

Lys Leu Glu Glu Met Met Leu Leu Ser Asn Gly Ala Pro Gln Phe Leu

35 40 45

Gly Ala Ala Gly Ala Pro Glu Gly Ser Gly Ser Asn Ser Ser Ser Ser

50 55 60

Ser Ser Gly Gly Gly Gly Gly Gly Gly Gly Gly Ser Asn Ser Ser Ser

65 70 75 80

Ser Ser Ser Thr Phe Asn Pro Gln Ala Asp Thr Gly Glu Gln Pro Tyr

85 90 95

Glu His Leu Thr Ala Glu Ser Phe Pro Asp Ile Ser Leu Asn Asn Glu

100 105 110

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

115 120 125

Pro Ile Thr Tyr Thr Gly Arg Phe Ser Leu Glu Pro Ala Pro Asn Ser

130 135 140

Gly Asn Thr Leu Trp Pro Glu Pro Leu Phe Ser Leu Val Ser Gly Leu

145 150 155 160

Val Ser Met Thr Asn Pro Pro Ala Ser Ser Ser Ser Ala Pro Ser Pro

165 170 175

Ala Ala Ser Ser Ala Ser Ala Ser Gln Ser Pro Pro Leu Ser Cys Ala

180 185 190

Val Pro Ser Asn Asp Ser Ser Pro Ile Tyr Ser Ala Ala Pro Thr Phe

195 200 205

Pro Thr Pro Asn Thr Asp Ile Phe Pro Glu Pro Gln Ser Gln Ala Phe

210 215 220

Pro Gly Ser Ala Gly Thr Ala Leu Gln Tyr Pro Pro Pro Ala Tyr Pro

225 230 235 240

Ala Ala Lys Gly Gly Phe Gln Val Pro Met Ile Pro Asp Tyr Leu Phe

245 250 255

Pro Gln Gln Gln Gly Asp Leu Gly Leu Gly Thr Pro Asp Gln Lys Pro

260 265 270

Phe Gln Gly Leu Glu Ser Arg Thr Gln Gln Pro Ser Leu Thr Pro Leu

275 280 285

Ser Thr Ile Lys Ala Phe Ala Thr Gln Ser Gly Ser Gln Asp Leu Lys

290 295 300

Ala Leu Asn Thr Ser Tyr Gln Ser Gln Leu Ile Lys Pro Ser Arg Met

305 310 315 320

Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro Pro His Glu Arg Pro

325 330 335

Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Arg Ser Asp

340 345 350

Asn Leu Val Arg His Ile Arg Ile His Thr Gly Gln Lys Pro Phe Gln

355 360 365

Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Glu Asp Asn Leu His Thr

370 375 380

His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys

385 390 395 400

Gly Arg Lys Phe Ala Arg Ser Asp Glu Leu Val Arg His Thr Lys Ile
405 410 415

His Leu Arg Gln Lys Asp Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys
420 425 430

Asp Arg Arg Phe Ser Gln Ser Gly Asn Leu Thr Glu His Ile Arg Ile
435 440 445

His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe
450 455 460

Ser Thr Ser Gly His Leu Val Arg His Ile Arg Thr His Thr Gly Glu
465 470 475 480

Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Gln Asn Ser
485 490 495

Thr Leu Thr Glu His Thr Lys Ile His Leu Arg Gln Lys Asp Lys Lys
500 505 510

Ala Asp Lys Ser Val Val Ala Ser Ser Ala Thr Ser Ser Leu Ser Ser

515 520 525

Tyr Pro Ser Pro Val Ala Thr Ser Tyr Pro Ser Pro Val Thr Thr Ser

530 535 540

Tyr Pro Ser Pro Ala Thr Thr Ser Tyr Pro Ser Pro Val Pro Thr Ser

545 550 555 560

Phe Ser Ser Pro Gly Ser Ser Thr Tyr Pro Ser Pro Val His Ser Gly

565 570 575

Phe Pro Ser Pro Ser Val Ala Thr Thr Tyr Ser Ser Val Pro Pro Ala

580 585 590

Phe Pro Ala Gln Val Ser Ser Phe Pro Ser Ser Ala Val Thr Asn Ser

595 600 605

Phe Ser Ala Ser Thr Gly Leu Ser Asp Met Thr Ala Thr Phe Ser Pro

610 615 620

Arg Thr Ile Glu Ile Cys

625 630

<210> 408

<211> 264

<212> PRT

<213> Secuencia Artificial

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<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 408

Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Asp

1 5 10 15

Pro Gly Ala Leu Val Arg His Ile Arg Ile His Thr Gly Gln Lys Pro

20 25 30

Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Ser Asp Asn Leu

35 40 45

Val Arg His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp

50 55 60

Ile Cys Gly Arg Lys Phe Ala Gln Ser Gly Asp Leu Arg Arg His Thr

65 70 75 80

Lys Ile His Leu Arg Gln Lys Asp Arg Pro Tyr Ala Cys Pro Val Glu

85 90 95

Ser Cys Asp Arg Arg Phe Ser Thr His Leu Asp Leu Ile Arg His Ile

100 105 110

Arg Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg

115 120 125

Asn Phe Ser Thr Ser Gly Asn Leu Val Arg His Ile Arg Thr His Thr

130 135 140

Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Arg

145 150 155 160

Ser Asp Asn Leu Val Arg His Thr Lys Ile His Leu Arg Gln Lys Asp

165 170 175

Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Gln

180 185 190

Ser Gly His Leu Thr Glu His Ile Arg Ile His Thr Gly Gln Lys Pro

195 200 205

Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Glu Arg Ser His Leu

210 215 220

Arg Glu His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp

225 230 235 240

Ile Cys Gly Arg Lys Phe Ala Gln Ala Gly His Leu Ala Ser His Thr

245 250 255

Lys Ile His Leu Arg Gln Lys Asp

260

<210> 409

<211> 194

<212> PRT

<213> Secuencia Artificial

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<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 409

Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro Pro His Glu Arg Pro

1 5 10 15

Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Arg Ser Asp

20 25 30

Asn Leu Val Arg His Ile Arg Ile His Thr Gly Gln Lys Pro Phe Gln

35 40 45

Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Glu Asp Asn Leu His Thr

50 55 60

His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys

65 70 75 80

Gly Arg Lys Phe Ala Arg Ser Asp Glu Leu Val Arg His Ile Arg Thr

85 90 95

His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe

100 105 110

Ser Gln Ser Gly Asn Leu Thr Glu His Ile Arg Ile His Thr Gly Gln

115 120 125

Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Thr Ser Gly

130 135 140

His Leu Val Arg His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala

145 150 155 160

Cys Asp Ile Cys Gly Arg Lys Phe Ala Gln Asn Ser Thr Leu Thr Glu

165 170 175

His Thr Lys Ile His Leu Arg Gln Lys Asp Lys Lys Ala Asp Lys Ser

180 185 190

Val Val

<210> 410

<211> 8

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

péptido

<400> 410

Gly Gly Ser Gly Gly Gly Ser Gly

1 5

<210> 411

<400> 411

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<210> 412

<211> 292

<212> PRT

<213> Secuencia Artificial

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<223> Descripción de secuencia artificial:

Polipéptido sintético

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<222> (8)..(57)

<223> Cualquier amino ácido

<220>

<221> MISC_FEATURE

<222> (8)..(57)

<223> Esta región puede abarcar 1-50 residuos

<220>

<221> MOD_RES

<222> (65)..(114)

<223> Cualquier amino ácido

<220>

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<220>

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<223> Cualquier amino ácido

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<223> Esta región puede abarcar 1-50 residuos

<220>

<221> MOD_RES

<222> (179)..(228)

<223> Cualquier amino ácido

<220>

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<223> Esta región puede abarcar 1-50 residuos

<220>

<221> MOD_RES

<222> (236)..(285)

<223> Cualquier amino ácido

<220>

<221> MISC_FEATURE

<222> (236)..(285)

<223> Esta región puede abarcar 1-50 residuos

<400> 412

Arg Ser Asp Asn Leu Val Arg Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Asp Pro Gly His Leu Val Arg

50 55 60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

65 70 75 80

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

85 90 95

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

100 105 110

Xaa Xaa Arg Ser Asp His Leu Thr Thr Xaa Xaa Xaa Xaa Xaa Xaa Xaa

115 120 125

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

130 135 140

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

145 150 155 160

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Arg Ser Asp Glu Leu

165 170 175

Val Arg Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

180 185 190

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

195 200 205

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

210 215 220

Xaa Xaa Xaa Xaa Arg Ser Asp Lys Leu Val Arg Xaa Xaa Xaa Xaa Xaa

225 230 235 240

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

245 250 255

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

260 265 270

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Thr Thr Gly

275 280 285

Asn Leu Thr Val

290

<210> 413

<211> 292

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Polipéptido sintético

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<220>

<221> MISC_FEATURE

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<223> Esta región puede abarcar 1-50 residuos

<400> 413

Arg Ser Asp His Leu Thr Thr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Arg Ser Asp Glu Leu Val Arg

50 55 60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

65 70 75 80

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

85 90 95

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

100 105 110

Xaa Xaa Arg Ser Asp Lys Leu Val Arg Xaa Xaa Xaa Xaa Xaa Xaa Xaa

115 120 125

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

130 135 140

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

145 150 155 160

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Thr Thr Gly Asn Leu

165 170 175

Thr Val Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

180 185 190

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

195 200 205

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

210 215 220

Xaa Xaa Xaa Xaa Gln Leu Ala His Leu Arg Ala Xaa Xaa Xaa Xaa Xaa

225 230 235 240

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

245 250 255

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

260 265 270

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Thr Lys Asn

275 280 285

Ser Leu Thr Glu

290

<210> 414

<211> 292

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<222> (236)..(285)

<223> Esta región puede abarcar 1-50 residuos

<400> 414

Ser Pro Ala Asp Leu Thr Arg Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Asp Ser Gly Asn Leu Arg Val

50 55 60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

65 70 75 80

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

85 90 95

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

100 105 110

Xaa Xaa Gln Leu Ala His Leu Arg Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa

115 120 125

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

130 135 140

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

145 150 155 160

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Gln Arg Ala Asn Leu

165 170 175

Arg Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

180 185 190

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

195 200 205

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

210 215 220

Xaa Xaa Xaa Xaa Arg Glu Asp Asn Leu His Thr Xaa Xaa Xaa Xaa Xaa

225 230 235 240

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

245 250 255

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

260 265 270

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Arg Ser Asp

275 280 285

Asn Leu Val Arg

290

<210> 415

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Polipéptido sintético

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<222> (236)..(285)

<223> Esta región puede abarcar 1-50 residuos

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<221> MOD_RES

<222> (293)..(342)

<223> Cualquier amino ácido

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<223> Esta región puede abarcar 1-50 residuos

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<222> (350)..(399)

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<223> Esta región puede abarcar 1-50 residuos

<400> 415

Thr Ser His Ser Leu Thr Glu Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa His Lys Asn Ala Leu Gln Asn

50 55 60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

65 70 75 80

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

85 90 95

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

100 105 110

Xaa Xaa Glu Arg Ser His Leu Arg Glu Xaa Xaa Xaa Xaa Xaa Xaa Xaa

115 120 125

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

130 135 140

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

145 150 155 160

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ser Lys Lys Ala Leu

165 170 175

Thr Glu Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

180 185 190

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

195 200 205

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

210 215 220

Xaa Xaa Xaa Xaa Gln Arg Ala Asn Leu Arg Ala Xaa Xaa Xaa Xaa Xaa

225 230 235 240

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

245 250 255

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

260 265 270

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Arg Lys Asp

275 280 285

Asn Leu Lys Asn Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

290 295 300

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

305 310 315 320

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

325 330 335

Xaa Xaa Xaa Xaa Xaa Xaa Gln Ser Ser Asn Leu Val Arg Xaa Xaa Xaa

340 345 350

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

355 360 365

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

370 375 380

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Gln

385 390 395 400

Ser Ser Ser Leu Val Arg Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

405 410 415

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

420 425 430

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

435 440 445

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Gln Ala Gly His Leu Ala Ser

450 455 460

<210> 416

<211> 349

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<223> Esta región puede abarcar 1-50 residuos

<400> 416

Gln Ser Gly Asp Leu Arg Arg Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ser Pro Ala Asp Leu Thr Arg

50 55 60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

65 70 75 80

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

85 90 95

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

100 105 110

Xaa Xaa Asp Ser Gly Asn Leu Arg Val Xaa Xaa Xaa Xaa Xaa Xaa Xaa

115 120 125

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

130 135 140

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

145 150 155 160

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Gln Leu Ala His Leu

165 170 175

Arg Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

180 185 190

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

195 200 205

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

210 215 220

Xaa Xaa Xaa Xaa Gln Arg Ala Asn Leu Arg Ala Xaa Xaa Xaa Xaa Xaa

225 230 235 240

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

245 250 255

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

260 265 270

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Arg Glu Asp

275 280 285

Asn Leu His Thr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

290 295 300

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

305 310 315 320

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

325 330 335

Xaa Xaa Xaa Xaa Xaa Xaa Arg Ser Asp Asn Leu Val Arg

340 345

<210> 417

<211> 509

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

polinucleótido sintético

<400> 417

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gccccccctcc ccccccccccg acccctgcag gattatcctg tctgtgttcc tgactcagcc 120

tgggagccac ctgggcagca ggggccaagg gtgtcctaga agggacctgg agtccacgct 180

gggccaagcc tgccctttct ccctctgtct tccgtccctg cttgcggttc tgctgaatgt 240

ggttatttct ctggctcctt ttacagagaa tgctgctgct aattttatgt ggagctctga 300

ggcagtgtaa ttggaagcca gacaccctgt cagcagtggg ctcccgtcct gagctgccat 360

gcttcctgct ctcctcccgt cccggctcct catttcatgc agccacctgt cccagggaga 420

gaggagtcac ccaggcccct cagtccgccc cttaaataag aaagcctccg ttgctcggca 480

cacataccaa gcagccgctg gtgcaatct 509

<210> 418

<211> 990

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

polinucleótido sintético

<400> 418

gccaccatgg tgagcaaggg cgaggagctg ttcaccgggg tggtgcccat cctggtcgag 60

ctggacggcg acgtaaacgg ccacaagttc agcgtgtccg gcgagggcga gggcgatgcc 120

acctacggca agctgaccct gaagttcatc tgcaccaccg gcaagctgcc cgtgccctgg 180

cccaccctcg tgaccaccct gacctacggc gtgcagtgct tcagccgcta ccccgaccac 240

atgaagcagc acgacttctt caagtccgcc atgcccgaag gctacgtcca ggagcgcacc 300

atcttcttca aggacgacgg caactacaag acccgcgccg aggtgaagtt cgagggcgac 360

accctggtga accgcatcga gctgaagggc atcgacttca aggaggacgg caacatcctg 420

gggcacaagc tggagtacaa ctacaacagc cacaacgtct atatcatggc cgacaagcag 480

aagaacggca tcaaggtgaa cttcaagatc cgccacaaca tcgaggacgg cagcgtgcag 540

ctcgccgacc actaccagca gaacaccccc atcggcgacg gccccgtgct gctgcccgac 600

aaccactacc tgagcaccca gtccgccctg agcaaagacc ccaacgagaa gcgcgatcac 660

atggtcctgc tggagttcgt gaccgccgcc gggatcactc tcggcatgga cgagctgtac 720

aagtccggac tcagatctcg agaggaggag gaggagacag acagcaggat gccccacctc 780

gacagccccg gcagctccca gccgagacgc tccttcctct caagggtgat cagggcagct 840

ctaccgttgc agctgcttct gctgctgctg ctgctcctgg cctgcctgct acctgcctct 900

gaagatgact acagctgcac ccaggccaac aactttgccc gatccttcta ccccatgctg 960

cggtacacca acgggccacc tcccacctag 990

<210> 419

<400> 419

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<210> 420

<400> 420

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<210> 421

<211> 360

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<220>

<221> MOD_RES

<222> (19)..(19)

<223> Cualquier amino ácido

<220>

<221> MOD_RES

<222> (41)..(41)

<223> Cualquier amino ácido

<220>

<221> MOD_RES

<222> (63)..(63)

<223> Cualquier amino ácido

<220>

<221> MOD_RES

<222> (85)..(85)

<223> Cualquier amino ácido

<220>

<221> MOD_RES

<222> (107)..(107)

<223> Cualquier amino ácido

<220>

<221> MOD_RES

<222> (129)..(129)

<223> Cualquier amino ácido

<220>

<221> MOD_RES

<222> (151)..(151)

<223> Cualquier amino ácido

<220>

<221> MOD_RES

<222> (173)..(173)

<223> Cualquier amino ácido

<220>

<221> MOD_RES

<222> (195)..(195)

<223> Cualquier amino ácido

<220>

<221> MOD_RES

<222> (217)..(217)

<223> Cualquier amino ácido

<220>

<221> MOD_RES

<222> (239)..(239)

<223> Cualquier amino ácido

<220>

<221> MOD_RES

<222> (261)..(261)

<223> Cualquier amino ácido

<220>

<221> MOD_RES

<222> (283)..(283)

<223> Cualquier amino ácido

<220>

<221> MOD_RES

<222> (305)..(305)

<223> Cualquier amino ácido

<220>

<221> MOD_RES

<222> (327)..(327)

<223> Cualquier amino ácido

<220>

<221> MISC_FEATURE

<222> (8)..(337)

<223> Esta región puede comprender 1-15 'Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Xaa His Gln Arg Thr His Thr Gly Glu Lys Pro' unidades repetidas

<220>

<221> MOD_RES

<222> (349)..(349)

<223> Cualquier amino ácido

<220>

<223> Ver descripción como fue presentada para el detalle de las sustituciones y modalidades preferidas

<400> 421

Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

1 5 10 15

Phe Ser Xaa His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys

20 25 30

Pro Glu Cys Gly Lys Ser Phe Ser Xaa His Gln Arg Thr His Thr Gly

35 40 45

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Xaa His

50 55 60

Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly

65 70 75 80

Lys Ser Phe Ser Xaa His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr

85 90 95

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Xaa His Gln Arg Thr His

100 105 110

Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser

115 120 125

Xaa His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu

130 135 140

Cys Gly Lys Ser Phe Ser Xaa His Gln Arg Thr His Thr Gly Glu Lys

145 150 155 160

Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Xaa His Gln Arg

165 170 175

Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

180 185 190

Phe Ser Xaa His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys

195 200 205

Pro Glu Cys Gly Lys Ser Phe Ser Xaa His Gln Arg Thr His Thr Gly

210 215 220

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Xaa His

225 230 235 240

Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly

245 250 255

Lys Ser Phe Ser Xaa His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr

260 265 270

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Xaa His Gln Arg Thr His

275 280 285

Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser

290 295 300

Xaa His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu

305 310 315 320

Cys Gly Lys Ser Phe Ser Xaa His Gln Arg Thr His Thr Gly Glu Lys

325 330 335

Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Xaa His Gln Arg

340 345 350

Thr His Thr Gly Lys Lys Thr Ser

355 360

<210> 422

<211> 387

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 422

Met Thr Gly Lys Leu Ala Glu Lys Leu Pro Val Thr Met Ser Ser Leu

1 5 10 15

Leu Asn Gln Leu Pro Asp Asn Leu Tyr Pro Glu Glu Ile Pro Ser Ala

20 25 30

Leu Asn Leu Phe Ser Gly Ser Ser Asp Ser Val Val His Tyr Asn Gln

35 40 45

Met Ala Thr Glu Asn Val Met Asp Ile Gly Leu Thr Asn Glu Lys Pro

50 55 60

Asn Pro Glu Leu Ser Tyr Ser Gly Ser Phe Gln Pro Ala Pro Gly Asn

65 70 75 80

Lys Thr Val Thr Tyr Leu Gly Lys Phe Ala Phe Asp Ser Pro Ser Asn

85 90 95

Trp Cys Gln Asp Asn Ile Ile Ser Leu Met Ser Ala Gly Ile Leu Gly

100 105 110

Val Pro Pro Ala Ser Gly Ala Leu Ser Thr Gln Thr Ser Thr Ala Ser

115 120 125

Met Val Gln Pro Pro Gln Gly Asp Val Glu Ala Met Tyr Pro Ala Leu

130 135 140

Pro Pro Tyr Ser Asn Cys Gly Asp Leu Tyr Ser Glu Pro Val Ser Phe

145 150 155 160

His Asp Pro Gln Gly Asn Pro Gly Leu Ala Tyr Ser Pro Gln Asp Tyr

165 170 175

Gln Ser Ala Lys Pro Ala Leu Asp Ser Asn Leu Phe Pro Met Ile Pro

180 185 190

Asp Tyr Asn Leu Tyr His His Pro Asn Asp Met Gly Ser Ile Pro Glu

195 200 205

His Lys Pro Phe Gln Gly Met Asp Pro Ile Arg Val Asn Pro Pro Pro

210 215 220

Ile Thr Pro Leu Glu Thr Ile Lys Ala Phe Lys Asp Lys Gln Ile His

225 230 235 240

Pro Gly Phe Gly Ser Leu Pro Gln Pro Pro Leu Thr Leu Lys Pro Ile

245 250 255

Arg Pro Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro Leu His Glu

260 265 270

Arg Pro His Ala Cys Pro Ala Glu Gly Cys Asp Arg Arg Phe Ser Arg

275 280 285

Ser Asp Glu Leu Thr Arg His Leu Arg Ile His Thr Gly His Lys Pro

290 295 300

Phe Gln Cys Arg Ile Cys Met Arg Ser Phe Ser Arg Ser Asp His Leu

305 310 315 320

Thr Thr His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Glu

325 330 335

Phe Cys Gly Arg Lys Phe Ala Arg Ser Asp Glu Arg Lys Arg His Ala

340 345 350

Lys Ile His Leu Lys Gln Lys Glu Lys Lys Ala Glu Lys Gly Gly Ala

355 360 365

Pro Ser Ala Ser Ser Ala Pro Pro Val Ser Leu Ala Pro Val Val Thr

370 375 380

Thr Cys Ala

385

<210> 423

<211> 176

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 423

Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

1 5 10 15

Phe Ser Arg Ser Asp Asn Leu Val Arg His Gln Arg Thr His Thr Gly

20 25 30

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Glu

35 40 45

Asp Asn Leu His Thr His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr

50 55 60

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Ser Asp Glu Leu Val

65 70 75 80

Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu

85 90 95

Cys Gly Lys Ser Phe Ser Gln Ser Gly Asn Leu Thr Glu His Gln Arg

100 105 110

Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

115 120 125

Phe Ser Thr Ser Gly His Leu Val Arg His Gln Arg Thr His Thr Gly

130 135 140

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Asn

145 150 155 160

Ser Thr Leu Thr Glu His Gln Arg Thr His Thr Gly Lys Lys Thr Ser

165 170 175

<210> 424

<211> 176

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 424

Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

1 5 10 15

Phe Ser Arg Ser Asp Asn Leu Val Arg His Gln Arg Thr His Thr Gly

20 25 30

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Glu

35 40 45

Asp Asn Leu His Thr His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr

50 55 60

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Ser Asp Glu Leu Val

65 70 75 80

Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu

85 90 95

Cys Gly Lys Ser Phe Ser Gln Ser Gly Asn Leu Thr Glu His Gln Arg

100 105 110

Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

115 120 125

Phe Ser Thr Ser Gly His Leu Val Arg His Gln Arg Thr His Thr Gly

130 135 140

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Asn

145 150 155 160

Ser Thr Leu Thr Glu His Gln Arg Thr His Thr Gly Lys Lys Thr Ser

165 170 175

<210> 425

<211> 176

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 425

Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

1 5 10 15

Phe Ser Arg Ser Asp Asn Leu Val Arg His Gln Arg Thr His Thr Gly

20 25 30

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Glu

35 40 45

Asp Asn Leu His Thr His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr

50 55 60

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Ser Asp Glu Leu Val

65 70 75 80

Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu

85 90 95

Cys Gly Lys Ser Phe Ser Gln Ser Gly Asn Leu Thr Glu His Gln Arg

100 105 110

Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

115 120 125

Phe Ser Thr Ser Gly His Leu Val Arg His Gln Arg Thr His Thr Gly

130 135 140

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Asn

145 150 155 160

Ser Thr Leu Thr Glu His Gln Arg Thr His Thr Gly Lys Lys Thr Ser

165 170 175

<210> 426

<211> 176

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 426

Leu Glu Pro Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

1 5 10 15

Phe Ser Arg Ser Asp Asn Leu Val Arg His Gln Arg Thr His Thr Gly

20 25 30

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser His Arg

35 40 45

Thr Thr Leu Thr Asn His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr

50 55 60

Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Glu Asp Asn Leu His

65 70 75 80

Thr His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu

85 90 95

Cys Gly Lys Ser Phe Ser Thr Ser His Ser Leu Thr Glu His Gln Arg

100 105 110

Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

115 120 125

Phe Ser Gln Ser Ser Ser Leu Val Arg His Gln Arg Thr His Thr Gly

130 135 140

Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Glu

145 150 155 160

Asp Asn Leu His Thr His Gln Arg Thr His Thr Gly Lys Lys Thr Ser

165 170 175

<210> 427

<211> 198

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 427

Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro Pro His Glu Arg Pro
1 5 10 15

Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Arg Ser Asp
20 25 30

Asn Leu Val Arg His Ile Arg Ile His Thr Gly Gln Lys Pro Phe Gln
35 40 45

Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Glu Asp Asn Leu His Thr
50 55 60

His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys
65 70 75 80

Gly Arg Lys Phe Ala Arg Ser Asp Glu Leu Val Arg His Thr Lys Ile
85 90 95

His Leu Arg Gln Lys Asp Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys
100 105 110

Asp Arg Arg Phe Ser Gln Ser Gly Asn Leu Thr Glu His Ile Arg Ile

115 120 125

His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe

130 135 140

Ser Thr Ser Gly His Leu Val Arg His Ile Arg Thr His Thr Gly Glu

145 150 155 160

Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Gln Asn Ser

165 170 175

Thr Leu Thr Glu His Thr Lys Ile His Leu Arg Gln Lys Asp Lys Lys

180 185 190

Ala Asp Lys Ser Val Val

195

<210> 428

<211> 198

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 428

Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro Pro His Glu Arg Pro
1 5 10 15

Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Arg Ser Asp
20 25 30

Asn Leu Val Arg His Ile Arg Ile His Thr Gly Gln Lys Pro Phe Gln
35 40 45

Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Glu Asp Asn Leu His Thr
50 55 60

His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys
65 70 75 80

Gly Arg Lys Phe Ala Arg Ser Asp Glu Leu Val Arg His Thr Lys Ile
85 90 95

His Leu Arg Gln Lys Asp Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys
100 105 110

Asp Arg Arg Phe Ser Gln Ser Gly Asn Leu Thr Glu His Ile Arg Ile

115 120 125

His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe

130 135 140

Ser Thr Ser Gly His Leu Val Arg His Ile Arg Thr His Thr Gly Glu

145 150 155 160

Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Gln Asn Ser

165 170 175

Thr Leu Thr Glu His Thr Lys Ile His Leu Arg Gln Lys Asp Lys Lys

180 185 190

Ala Asp Lys Ser Val Val

195

<210> 429

<211> 191

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 429

Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro Pro His Glu Arg Pro
1 5 10 15

Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Arg Ser Asp
20 25 30

Asn Leu Val Arg His Ile Arg Ile His Thr Gly Gln Lys Pro Phe Gln
35 40 45

Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Glu Asp Asn Leu His Thr
50 55 60

His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys
65 70 75 80

Gly Arg Lys Phe Ala Arg Ser Asp Glu Leu Val Arg His Thr Lys Ile
85 90 95

His Leu Arg Gln Lys Asp Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys
100 105 110

Asp Arg Arg Phe Ser Gln Ser Gly Asn Leu Thr Glu His Ile Arg Ile

115 120 125

His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe

130 135 140

Ser Thr Ser Gly His Leu Val Arg His Ile Arg Thr His Thr Gly Glu

145 150 155 160

Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Gln Asn Ser

165 170 175

Thr Leu Thr Glu His Thr Lys Ile His Leu Arg Gln Lys Asp Lys

180 185 190

<210> 430

<211> 191

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 430

Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro Pro His Glu Arg Pro

1 5 10 15

Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Arg Ser Asp

20 25 30

Asn Leu Val Arg His Ile Arg Ile His Thr Gly Gln Lys Pro Phe Gln

35 40 45

Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Glu Asp Asn Leu His Thr

50 55 60

His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys

65 70 75 80

Gly Arg Lys Phe Ala Arg Ser Asp Glu Leu Val Arg His Thr Lys Ile

85 90 95

His Leu Arg Gln Lys Asp Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys

100 105 110

Asp Arg Arg Phe Ser Gln Ser Gly Asn Leu Thr Glu His Ile Arg Ile

115 120 125

His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe

130 135 140

Ser Thr Ser Gly His Leu Val Arg His Ile Arg Thr His Thr Gly Glu

145 150 155 160

Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Gln Asn Ser

165 170 175

Thr Leu Thr Glu His Thr Lys Ile His Leu Arg Gln Lys Asp Lys

180 185 190

<210> 431

<211> 194

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 431

Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro Pro His Glu Arg Pro

1 5 10 15

Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Arg Ser Asp

20 25 30

Asn Leu Val Arg His Ile Arg Ile His Thr Gly Gln Lys Pro Phe Gln

35 40 45

Cys Arg Ile Cys Met Arg Asn Phe Ser His Arg Thr Thr Leu Thr Asn

50 55 60

His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys

65 70 75 80

Gly Arg Lys Phe Ala Arg Glu Asp Asn Leu His Thr His Ile Arg Thr

85 90 95

His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe

100 105 110

Ser Thr Ser His Ser Leu Thr Glu His Ile Arg Ile His Thr Gly Gln

115 120 125

Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Gln Ser Ser

130 135 140

Ser Leu Val Arg His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala

145 150 155 160

Cys Asp Ile Cys Gly Arg Lys Phe Ala Arg Glu Asp Asn Leu His Thr

165 170 175

His Thr Lys Ile His Leu Arg Gln Lys Asp Lys Lys Ala Asp Lys Ser

180 185 190

Val Val

<210> 432

<211> 201

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 432

Gln Ser Gln Leu Ile Lys Pro Ser Arg Met Arg Lys Tyr Pro Asn Arg

1 5 10 15

Pro Ser Lys Thr Pro Pro His Glu Arg Pro Tyr Ala Cys Pro Val Glu

20 25 30

Ser Cys Asp Arg Arg Phe Ser Arg Ser Asp Asn Leu Val Arg His Ile

35 40 45

Arg Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg

50 55 60

Asn Phe Ser His Arg Thr Thr Leu Thr Asn His Ile Arg Thr His Thr

65 70 75 80

Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Arg

85 90 95

Glu Asp Asn Leu His Thr His Thr Lys Ile His Leu Arg Gln Lys Asp

100 105 110

Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Thr

115 120 125

Ser His Ser Leu Thr Glu His Ile Arg Ile His Thr Gly Gln Lys Pro

130 135 140

Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Gln Ser Ser Ser Leu

145 150 155 160

Val Arg His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp

165 170 175

Ile Cys Gly Arg Lys Phe Ala Arg Glu Asp Asn Leu His Thr His Thr

180 185 190

Lys Ile His Leu Arg Gln Lys Asp Lys

195 200

<210> 433

<211> 195

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 433

Gln Ser Gln Leu Ile Lys Pro Ser Arg Met Arg Lys Tyr Pro Asn Arg

1 5 10 15

Pro Ser Lys Thr Pro Pro His Glu Arg Pro Tyr Ala Cys Pro Val Glu

20 25 30

Ser Cys Asp Arg Arg Phe Ser Arg Ser Asp Asn Leu Val Arg His Ile

35 40 45

Arg Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg

50 55 60

Asn Phe Ser His Arg Thr Thr Leu Thr Asn His Ile Arg Thr His Thr

65 70 75 80

Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Arg

85 90 95

Glu Asp Asn Leu His Thr His Thr Lys Ile His Leu Arg Gln Lys Asp

100 105 110

Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Thr

115 120 125

Ser His Ser Leu Thr Glu His Ile Arg Ile His Thr Gly Gln Lys Pro

130 135 140

Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Gln Ser Ser Ser Leu

145 150 155 160

Val Arg His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp

165 170 175

Ile Cys Gly Arg Lys Phe Ala Arg Glu Asp Asn Leu His Thr His Thr

180 185 190

Lys Ile His

195

<210> 434

<211> 201

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 434

Gln Ser Gln Leu Ile Lys Pro Ser Arg Met Arg Lys Tyr Pro Asn Arg

1 5 10 15

Pro Ser Lys Thr Pro Pro His Glu Arg Pro Tyr Ala Cys Pro Val Glu

20 25 30

Ser Cys Asp Arg Arg Phe Ser Arg Ser Asp Asn Leu Val Arg His Ile

35 40 45

Arg Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg

50 55 60

Asn Phe Ser His Arg Thr Thr Leu Thr Asn His Ile Arg Thr His Thr

65 70 75 80

Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Arg

85 90 95

Glu Asp Asn Leu His Thr His Thr Lys Ile His Leu Arg Gln Lys Asp

100 105 110

Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Thr

115 120 125

Ser His Ser Leu Thr Glu His Ile Arg Ile His Thr Gly Gln Lys Pro

130 135 140

Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Gln Ser Ser Ser Leu

145 150 155 160

Val Arg His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp

165 170 175

Ile Cys Gly Arg Lys Phe Ala Arg Glu Asp Asn Leu His Thr His Thr

180 185 190

Lys Ile His Leu Arg Gln Lys Asp Lys

195 200

<210> 435

<211> 194

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 435

Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro Pro His Glu Arg Pro

1 5 10 15

Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Arg Ser Asp

20 25 30

Asn Leu Val Arg His Ile Arg Ile His Thr Gly Gln Lys Pro Phe Gln

35 40 45

Cys Arg Ile Cys Met Arg Asn Phe Ser His Arg Thr Thr Leu Thr Asn

50 55 60

His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys

65 70 75 80

Gly Arg Lys Phe Ala Arg Glu Asp Asn Leu His Thr His Ile Arg Thr

85 90 95

His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe

100 105 110

Ser Thr Ser His Ser Leu Thr Glu His Ile Arg Ile His Thr Gly Gln

115 120 125

Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Gln Ser Ser

130 135 140

Ser Leu Val Arg His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala

145 150 155 160

Cys Asp Ile Cys Gly Arg Lys Phe Ala Arg Glu Asp Asn Leu His Thr

165 170 175

His Thr Lys Ile His Leu Arg Gln Lys Asp Lys Lys Ala Asp Lys Ser

180 185 190

Val Val

<210> 436

<211> 4

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

péptido

<400> 436

Gly Gly Gly Ser

1

<210> 437

<211> 5

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

péptido

<400> 437

Gly Gly Gly Gly Ser

1 5

<210> 438

<211> 4

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

péptido

<400> 438

Gly Gly Ser Gly

1

<210> 439

<211> 21

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

primer

<400> 439

attggtggga ggccactgta t 21

<210> 440

<211> 627

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 440

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

Ser Asp Pro Phe Gly Ser Phe Pro His Ser Pro Thr Met Asp Asn Tyr
20 25 30

Pro Lys Leu Glu Glu Met Met Leu Leu Ser Asn Gly Ala Pro Gln Phe
35 40 45

Leu Gly Ala Ala Gly Ala Pro Glu Gly Ser Gly Ser Asn Ser Ser Ser

50 55 60

Ser Ser Ser Gly Gly Gly Gly Gly Gly Gly Gly Gly Ser Asn Ser Ser

65 70 75 80

Ser Ser Ser Ser Thr Phe Asn Pro Gln Ala Asp Thr Gly Glu Gln Pro

85 90 95

Tyr Glu His Leu Thr Ala Glu Ser Phe Pro Asp Ile Ser Leu Asn Asn

100 105 110

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

115 120 125

Pro Pro Ile Thr Tyr Thr Gly Arg Phe Ser Leu Glu Pro Ala Pro Asn

130 135 140

Ser Gly Asn Thr Leu Trp Pro Glu Pro Leu Phe Ser Leu Val Ser Gly

145 150 155 160

Leu Val Ser Met Thr Asn Pro Pro Ala Ser Ser Ser Ser Ala Pro Ser

165 170 175

Pro Ala Ala Ser Ser Ala Ser Ala Ser Gln Ser Pro Pro Leu Ser Cys

180 185 190

Ala Val Pro Ser Asn Asp Ser Ser Pro Ile Tyr Ser Ala Ala Pro Thr

195 200 205

Phe Pro Thr Pro Asn Thr Asp Ile Phe Pro Glu Pro Gln Ser Gln Ala

210 215 220

Phe Pro Gly Ser Ala Gly Thr Ala Leu Gln Tyr Pro Pro Pro Ala Tyr

225 230 235 240

Pro Ala Ala Lys Gly Gly Phe Gln Val Pro Met Ile Pro Asp Tyr Leu

245 250 255

Phe Pro Gln Gln Gln Gly Asp Leu Gly Leu Gly Thr Pro Asp Gln Lys

260 265 270

Pro Phe Gln Gly Leu Glu Ser Arg Thr Gln Gln Pro Ser Leu Thr Pro

275 280 285

Leu Ser Thr Ile Lys Ala Phe Ala Thr Gln Ser Gly Ser Gln Asp Leu

290 295 300

Lys Ala Leu Asn Thr Ser Tyr Gln Ser Gln Leu Ile Lys Pro Ser Arg

305 310 315 320

Met Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro Pro His Glu Arg

325 330 335

Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Arg Ser

340 345 350

Asp Asn Leu Val Arg His Ile Arg Ile His Thr Gly Gln Lys Pro Phe

355 360 365

Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Glu Asp Asn Leu His

370 375 380

Thr His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile

385 390 395 400

Cys Gly Arg Lys Phe Ala Arg Ser Asp Glu Leu Val Arg His Ile Arg

405 410 415

Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys

420 425 430

Phe Ser Gln Ser Gly Asn Leu Thr Glu His Ile Arg Ile His Thr Gly

435 440 445

Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Thr Ser

450 455 460

Gly His Leu Val Arg His Ile Arg Thr His Thr Gly Glu Lys Pro Phe

465 470 475 480

Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Gln Asn Ser Thr Leu Thr

485 490 495

Glu His Thr Lys Ile His Leu Arg Gln Lys Asp Lys Lys Ala Asp Lys

500 505 510

Ser Val Val Ala Ser Ser Ala Thr Ser Ser Leu Ser Ser Tyr Pro Ser

515 520 525

Pro Val Ala Thr Ser Tyr Pro Ser Pro Val Thr Thr Ser Tyr Pro Ser

530 535 540

Pro Ala Thr Thr Ser Tyr Pro Ser Pro Val Pro Thr Ser Phe Ser Ser

545 550 555 560

Pro Gly Ser Ser Thr Tyr Pro Ser Pro Val His Ser Gly Phe Pro Ser

565 570 575

Pro Ser Val Ala Thr Thr Tyr Ser Ser Val Pro Pro Ala Phe Pro Ala

580 585 590

Gln Val Ser Ser Phe Pro Ser Ser Ala Val Thr Asn Ser Phe Ser Ala

595 600 605

Ser Thr Gly Leu Ser Asp Met Thr Ala Thr Phe Ser Pro Arg Thr Ile

610 615 620

Glu Ile Cys

625

<210> 441

<211> 194

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

Polipéptido sintético

<400> 441

Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro Pro His Glu Arg Pro
1 5 10 15

Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Arg Ser Asp
20 25 30

Asn Leu Val Arg His Ile Arg Ile His Thr Gly Gln Lys Pro Phe Gln
35 40 45

Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Glu Asp Asn Leu His Thr
50 55 60

His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys
65 70 75 80

Gly Arg Lys Phe Ala Arg Ser Asp Glu Leu Val Arg His Ile Arg Thr
85 90 95

His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe
100 105 110

Ser Gln Ser Gly Asn Leu Thr Glu His Ile Arg Ile His Thr Gly Gln

115 120 125

Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Thr Ser Gly

130 135 140

His Leu Val Arg His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala

145 150 155 160

Cys Asp Ile Cys Gly Arg Lys Phe Ala Gln Asn Ser Thr Leu Thr Glu

165 170 175

His Thr Lys Ile His Leu Arg Gln Lys Asp Lys Lys Ala Asp Lys Ser

180 185 190

Val Val

<210> 442

<211> 2259

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

polinucleótido sintético

<400> 442

atggccccaa agaagaagcg gaaggtcggt atccacggag tcccagcagc cctcgaacca 60

ggtgaaaaac cttacaaatg tcctgaatgt gggaaatcat tcagtcgcag cgacaacctg 120

gtgagacatc aacgcaccca tacaggagaa aaaccttata aatgtccaga atgtggaaag 180

tccttctcac gagaggataa cttgcacact catcaacgaa cacatactgg tgaaaaacca 240

tacaagtgtc ccgaatgtgg taaaagtttt agccggagcg atgaacttgt ccgacaccaa 300

cgaacccata caggcgagaa gccttacaaa tgtcccgagt gtggcaagag cttctcacaa 360

tcagggaatc tgactgagca tcaacgaact cataccgggg aaaaacctta caagtgtcca 420

gagtgtggga agagcttttc cacaagtgga catctggtac gccaccagag gacacataca 480

ggggagaagc cctacaaatg ccccgaatgc ggtaaaagtt tctctcagaa tagtaccctg 540

accgaacacc agcgaacaca cactgggaaa aaaacgagta aaaggccggc ggccacgaaa 600

aaggccggcc aggcaaaaaa gaaaaaggga tcctacccat acgacgtacc agattacgct 660

ctcgaggagg ccagcggttc cggacgggct gacgcattgg acgattttga tctggatatg 720

ctgggaagtg acgccctcga tgattttgac cttgacatgc ttggttcgga tgcccttgat 780

gactttgacc tcgacatgct cggcagtgac gcccttgatg atttcgacct ggacatgctg 840

attaactcta gaagttccgg atctccgaaa aagaaacgca aagttggtag ccagtacctg 900

cccgacaccg acgaccggca ccggatcgag gaaaagcgga agcggaccta cgagacattc 960

aagagcatca tgaagaagtc ccccttcagc ggccccaccg accctagacc tccacctaga 1020

agaatcgccg tgcccagcag atccagcgcc agcgtgccaa aacctgcccc ccagccttac 1080

cccttcacca gcagcctgag caccatcaac tacgacgagt tccctaccat ggtgttcccc 1140

agcggccaga tctctcaggc ctctgctctg gctccagccc ctcctcaggt gctgcctcag 1200

gctcctgctc ctgcaccagc tccagccatg gtgtctgcac tggctcaggc accagcaccc 1260

gtgcctgtgc tggctcctgg acctccacag gctgtggctc caccagcccc taaacctaca 1320

caggccggcg agggcacact gtctgaagct ctgctgcagc tgcagttcga cgacgaggat 1380

ctgggagccc tgctgggaaa cagcaccgat cctgccgtgt tcaccgacct ggccagcgtg 1440

gacaacagcg agttccagca gctgctgaac cagggcatcc ctgtggcccc tcacaccacc 1500

gagcccatgc tgatggaata ccccgaggcc atcacccggc tcgtgacagg cgctcagagg 1560

cctcctgatc cagctcctgc ccctctggga gcaccaggcc tgcctaatgg actgctgtct 1620

ggcgacgagg acttcagctc tatcgccgat atggatttct cagccttgct gggctctggc 1680

agcggcagcc gggattccag ggaagggatg tttttgccga agcctgaggc cggctccgct 1740

attagtgacg tgtttgaggg ccgcgaggtg tgccagccaa aacgaatccg gccatttcat 1800

cctccaggaa gtccatgggc caaccgccca ctccccgcca gcctcgcacc aacaccaacc 1860

ggtccagtac atgagccagt cgggtcactg accccggcac cagtccctca gccactggat 1920

ccagcgcccg cagtgactcc cgaggccagt cacctgttgg aggatcccga tgaagagacg 1980

agccaggctg tcaaagccct tcgggagatg gccgatactg tgattcccca gaaggaagag 2040

gctgcaatct gtggccaaat ggacctttcc catccgcccc caaggggcca tctggatgag 2100

ctgacaacca cacttgagtc catgaccgag gatctgaacc tggactcacc cctgaccccg 2160

gaattgaacg agattctgga taccttcctg aacgacgagt gcctcttgca tgccatgcat 2220

atcagcacag gactgtccat cttcgacaca tctctgttt 2259

<210> 443

<211> 816

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

polinucleótido sintético

<400> 443

atggccccaa agaagaagcg gaaggtcggt atccacggag tcccagcagc cctcgaacca 60

ggtgaaaaac cttacaaatg tcctgaatgt gggaaatcat tcagtcgcag cgacaacctg 120

gtgagacatc aacgcaccca tacaggagaa aaaccttata aatgtccaga atgtggaaag 180

tccttctcac gagaggataa cttgcacact catcaacgaa cacatactgg tgaaaaacca 240

tacaagtgtc ccgaatgtgg taaaagtttt agccggagcg atgaacttgt ccgacaccaa 300

cgaacccata caggcgagaa gccttacaaa tgtcccgagt gtggcaagag cttctcacaa 360

tcagggaatc tgactgagca tcaacgaact cataccgggg aaaaacctta caagtgtcca 420

gagtgtggga agagcttttc cacaagtgga catctggtac gccaccagag gacacataca 480

ggggagaagc cctacaaatg ccccgaatgc ggtaaaagtt tctctcagaa tagtaccctg 540

accgaacacc agcgaacaca cactgggaaa aaaacgagta aaaggccggc ggccacgaaa 600

aaggccggcc aggcaaaaaa gaaaaaggga tcctacccat acgacgtacc agattacgct 660

ctcgaggacg cgctggacga tttcgatctc gacatgctgg gttctgatgc cctcgatgac 720

tttgacctgg atatgttggg aagcgacgca ttggatgact ttgatctgga catgctcggc 780

tccgatgctc tggacgattt cgatctcgat atgtta 816

<210> 444

<211> 816

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

polinucleótido sintético

<400> 444

atggccccaa agaagaagcg gaaggtcggt atccacggag tcccagcagc cctcgaacca 60

ggtgaaaaac cttacaaatg tcctgaatgt gggaaatcat tcagtcgcag cgacaacctg 120

gtgagacatc aacgcaccca tacaggagaa aaaccttata aatgtccaga atgtggaaag 180

tccttctcac gagaggataa cttgcacact catcaacgaa cacatactgg tgaaaaacca 240

tacaagtgtc ccgaatgtgg taaaagtttt agccggagcg atgaacttgt ccgacaccaa 300

cgaacccata caggcgagaa gccttacaaa tgtcccgagt gtggcaagag cttctcacaa 360

tcagggaatc tgactgagca tcaacgaact cataccgggg aaaaacctta caagtgtcca 420

gagtgtggga agagcttttc cacaagtgga catctggtac gccaccagag gacacataca 480

ggggagaagc cctacaaatg ccccgaatgc ggtaaaagtt tctctcagaa tagtaccctg 540

accgaacacc agcgaacaca cactgggaaa aaaacgagta aaaggccggc ggccacgaaa 600

aaggccggcc aggcaaaaaa gaaaaaggga tcctacccat acgacgtacc agattacgct 660

ctcgaggacg cgctggacga tttcgatctc gacatgctgg gttctgatgc cctcgatgac 720

tttgacctgg atatgttggg aagcgacgca ttggatgact ttgatctgga catgctcggc 780

tccgatgctc tggacgattt cgatctcgat atgtta 816

<210> 445

<211> 1893

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

polinucleótido sintético

<400> 445

atggccgcgg ccaaggccga gatgcagctg atgtccccgc tgcagatctc tgacccgttc 60

ggatcctttc ctcactcgcc caccatggac aactacccta agctggagga gatgatgctg 120

ctgagcaacg gggctcccca gttcctcggc gccgccgggg ccccagaggg cagcggcagc 180

aacagcagca gcagcagcag cgggggcggt ggaggcggcg ggggcggcag caacagcagc 240

agcagcagca gcaccttcaa ccctcaggcg gacacgggcg agcagcccta cgagcacctg 300

accgcagagt cttttcctga catctctctg aacaacgaga aggtgctggt ggagaccagt 360

taccccagcc aaaccactcg actgcccccc atcacctata ctggccgctt ttccctggag 420

cctgcaccca acagtggcaa caccttgtgg cccgagcccc tcttcagctt ggtcagtggc 480

ctagtgagca tgaccaaccc accggcctcc tcgtcctcag caccatctcc agcggcctcc 540

tccgcctccg cctcccagag cccacccctg agctgcgcag tgccatccaa cgacagcagt 600

cccatttact cagcggcacc caccttcccc acgccgaaca ctgacatttt ccctgagcca 660

caaagccagg ccttcccggg ctcggcaggg acagcgctcc agtacccgcc tcctgcctac 720

cctgccgcca agggtggctt ccaggttccc atgatccccg actacctgtt tccacagcag 780

caggggggatc tgggcctggg caccccagac cagaagccct tccagggcct ggagagccgc 840

acccagcagc cttcgctaac ccctctgtct actattaagg cctttgccac tcagtcgggc 900

tcccaggacc tgaaggccct caataccagc taccagtccc agctcatcaa acccagccgc 960

atgcgcaagt accccaaccg gcccagcaag acgccccccc acgaacgccc ttacgcttgc 1020

ccagtggagt cctgtgatcg ccgcttctcc cgcagcgaca acctggtgag acacatccgc 1080

atccacacag gccagaagcc cttccagtgc cgcatctgca tgagaaactt cagccgagag 1140

gataacttgc acactcacat ccgcacccac acaggcgaaa agcccttcgc ctgcgacatc 1200

tgtggaagaa agtttgcccg gagcgatgaa cttgtccgac ataccaagat ccacttgcgg 1260

cagaaggacc gcccttacgc ttgcccagtg gagtcctgtg atcgccgctt ctcccaatca 1320

gggaatctga ctgagcacat ccgcatccac acaggccaga agcccttcca gtgccgcatc 1380

tgcatgagaa acttcagcac aagtggacat ctggtacgcc acatccgcac ccacacaggc 1440

gaaaagccct tcgcctgcga catctgtgga agaaagtttg cccagaatag taccctgacc 1500

gaacatacca agatccactt gcggcagaag gacaagaaag cagacaaaag tgttgtggct 1560

agctcggcca cctcctctct ctcttcctac ccgtccccgg ttgctacctc ttacccgtcc 1620

ccggttacta cctcttatcc atccccggcc accacctcat acccatcccc tgtgcccacc 1680

tccttctcct ctcccggctc ctcgacctac ccatcccctg tgcacagtgg cttcccctcc 1740

ccgtcggtgg ccaccacgta ctcctctgtt ccccctgctt tcccggccca ggtcagcagc 1800

ttcccttcct cagctgtcac caactccttc agcgcctcca cagggctttc ggacatgaca 1860

gcaacctttt ctcccaggac aattgaaatt tgc 1893

<210> 446

<211> 1740

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

polinucleótido sintético

<400> 446

atggccgccg accacctgat gctcgccgag ggctaccgcc tggtgcagag gccgccgtcc 60

gccgccgccg cccatggccc tcatgcgctc cggactctgc cgccgtacgc gggcccgggc 120

ctggacagtg ggctgaggcc gcgggggct ccgctggggc cgccgccgcc ccgccaaccc 180

ggggccctgg cgtacggggc cttcgggccg ccgtcctcct tccagccctt tccggccgtg 240

cctccgccgg ccgcgggcat cgcgcacctg cagcctgtgg cgacgccgta ccccggccgc 300

gcggccgcgc cccccaacgc tccgggaggc cccccgggcc cgcagccggc cccaagcgcc 360

gcagccccgc cgccgcccgc gcacgccctg ggcggcatgg acgccgaact catcgacgag 420

gaggcgctga cgtcgctgga gctggagctg gggctgcacc gcgtgcgcga gctgcccgag 480

ctgttcctgg gccagagcga gttcgactgc ttctcggact tggggtccgc gccgcccgcc 540

ggctccgtga gctgcggtgg ttctggtggt ggttctggtc agtcccagct catcaaaccc 600

agccgcatgc gcaagtaccc caaccggccc agcaagacgc ccccccacga acgcccttac 660

gcttgcccag tggagtcctg tgatcgccgc ttctcccgca gcgacaacct ggtgagacac 720

atccgcatcc acacaggcca gaagcccttc cagtgccgca tctgcatgag aaacttcagc 780

cgagaggata acttgcacac tcacatccgc acccacacag gcgaaaagcc cttcgcctgc 840

gacatctgtg gaagaaagtt tgcccggagc gatgaacttg tccgacatac caagatccac 900

ttgcggcaga aggaccgccc ttacgcttgc ccagtggagt cctgtgatcg ccgcttctcc 960

caatcaggga atctgactga gcacatccgc atccacacag gccagaagcc cttccagtgc 1020

cgcatctgca tgagaaactt cagcacaagt ggacatctgg tacgccacat ccgcacccac 1080

acaggcgaaa agcccttcgc ctgcgacatc tgtggaagaa agtttgccca gaatagtacc 1140

ctgaccgaac ataccaagat ccacttgcgg cagaaggaca agctcgagat ggccgaccac 1200

ctgatgctcg ccgagggcta ccgcctggtg cagaggccgc cgtccgccgc cgccgcccat 1260

ggccctcatg cgctccggac tctgccgccg tacgcgggcc cgggcctgga cagtgggctg 1320

aggccgcggg gggctccgct ggggccgccg ccgccccgcc aacccggggc cctggcgtac 1380

ggggccttcg ggccgccgtc ctccttccag ccctttccgg ccgtgcctcc gccggccgcg 1440

ggcatcgcgc acctgcagcc tgtggcgacg ccgtaccccg gccgcgcggc cgcgcccccc 1500

aacgctccgg gaggcccccc gggcccgcag ccggccccaa gcgccgcagc cccgccgccg 1560

cccgcgcacg ccctgggcgg catggacgcc gaactcatcg acgaggaggc gctgacgtcg 1620

ctggagctgg agctggggct gcaccgcgtg cgcgagctgc ccgagctgtt cctgggccag 1680

agcgagttcg actgcttctc ggacttgggg tccgcgccgc ccgccggctc cgtgagctgc 1740

<210> 447

<211> 1881

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

polinucleótido sintético

<400> 447

atggccgcgg ccaaggccga gatgcagctg atgtccccgc tgcagatctc tgacccgttc 60

ggatcctttc ctcactcgcc caccatggac aactacccta agctggagga gatgatgctg 120

ctgagcaacg gggctcccca gttcctcggc gccgccgggg ccccagaggg cagcggcagc 180

aacagcagca gcagcagcag cgggggcggt ggaggcggcg ggggcggcag caacagcagc 240

agcagcagca gcaccttcaa ccctcaggcg gacacgggcg agcagcccta cgagcacctg 300

accgcagagt cttttcctga catctctctg aacaacgaga aggtgctggt ggagaccagt 360

taccccagcc aaaccactcg actgcccccc atcacctata ctggccgctt ttccctggag 420

cctgcaccca acagtggcaa caccttgtgg cccgagcccc tcttcagctt ggtcagtggc 480

ctagtgagca tgaccaaccc accggcctcc tcgtcctcag caccatctcc agcggcctcc 540

tccgcctccg cctcccagag cccacccctg agctgcgcag tgccatccaa cgacagcagt 600

cccatttact cagcggcacc caccttcccc acgccgaaca ctgacatttt ccctgagcca 660

caaagccagg ccttcccggg ctcggcaggg acagcgctcc agtacccgcc tcctgcctac 720

cctgccgcca agggtggctt ccaggttccc atgatccccg actacctgtt tccacagcag 780

caggggggatc tgggcctggg caccccagac cagaagccct tccagggcct ggagagccgc 840

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tcccaggacc tgaaggccct caataccagc taccagtccc agctcatcaa acccagccgc 960

atgcgcaagt accccaaccg gcccagcaag acgccccccc acgaacgccc ttacgcttgc 1020

ccagtggagt cctgtgatcg ccgcttctcc cgctcagaca acctcgttcg acacatccgc 1080

atccacacag gccagaagcc cttccagtgc cgcatctgca tgagaaactt cagccaccgg 1140

actacactca cgaaccacat ccgcacccac acaggcgaaa agcccttcgc ctgcgacatc 1200

tgtggaagaa agtttgccag agaagacaat ctccatactc acatccggac acacacggga 1260

gagaagccat tcgcatgtga tatatgtggg agaaagttct ccaccagcca ttctctcact 1320

gaacacatcc gcatccacac aggccagaag cccttccagt gccgcatctg catgagaaac 1380

ttcagccagt ctagctcact ggtgaggcac atccgcaccc acacaggcga aaagcccttc 1440

gcctgcgaca tctgtggaag aaagtttgcc agggaggata acctgcatac gcataccaag 1500

atccacttgc ggcagaagga caagaaagca gacaaaagtg ttgtggctag ctcggccacc 1560

tcctctctct cttcctaccc gtccccggtt gctacctctt acccgtcccc ggttactacc 1620

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cccggctcct cgacctaccc atcccctgtg cacagtggct tcccctcccc gtcggtggcc 1740

accacgtact cctctgttcc ccctgctttc ccggcccagg tcagcagctt cccttcctca 1800

gctgtcacca actccttcag cgcctccaca gggctttcgg acatgacagc aacctttct 1860

cccaggacaa ttgaaatttg c 1881

<210> 448

<211> 1182

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

polinucleótido sintético

<400> 448

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ctggacagtg ggctgaggcc gcgggggct ccgctggggc cgccgccgcc ccgccaaccc 180

ggggccctgg cgtacggggc cttcgggccg ccgtcctcct tccagccctt tccggccgtg 240

cctccgccgg ccgcgggcat cgcgcacctg cagcctgtgg cgacgccgta ccccggccgc 300

gcggccgcgc cccccaacgc tccgggaggc cccccgggcc cgcagccggc cccaagcgcc 360

gcagccccgc cgccgcccgc gcacgccctg ggcggcatgg acgccgaact catcgacgag 420

gaggcgctga cgtcgctgga gctggagctg gggctgcacc gcgtgcgcga gctgcccgag 480

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agccgcatgc gcaagtaccc caaccggccc agcaagacgc ccccccacga acgcccttac 660

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<210> 449

<211> 1740

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

polinucleótido sintético

<400> 449

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ctggacagtg ggctgaggcc gcgggggct ccgctggggc cgccgccgcc ccgccaaccc 180

ggggccctgg cgtacggggc cttcgggccg ccgtcctcct tccagccctt tccggccgtg 240

cctccgccgg ccgcgggcat cgcgcacctg cagcctgtgg cgacgccgta ccccggccgc 300

gcggccgcgc cccccaacgc tccgggaggc cccccgggcc cgcagccggc cccaagcgcc 360

gcagccccgc cgccgcccgc gcacgccctg ggcggcatgg acgccgaact catcgacgag 420

gaggcgctga cgtcgctgga gctggagctg gggctgcacc gcgtgcgcga gctgcccgag 480

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agccgcatgc gcaagtaccc caaccggccc agcaagacgc ccccccacga acgcccttac 660

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caccggacta cactcacgaa ccacatccgc acccacacag gcgaaaagcc cttcgcctgc 840

gacatctgtg gaagaaagtt tgccagagaa gacaatctcc atactcatac caagatccac 900

ttgcggcaga aggaccgccc ttacgcttgc ccagtggagt cctgtgatcg ccgcttctcc 960

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ggcatcgcgc acctgcagcc tgtggcgacg ccgtaccccg gccgcgcggc cgcgcccccc 1500

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ctggagctgg agctggggct gcaccgcgtg cgcgagctgc ccgagctgtt cctgggccag 1680

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<210> 450

<211> 1182

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

polinucleótido sintético

<400> 450

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gccgccgccg cccatggccc tcatgcgctc cggactctgc cgccgtacgc gggcccgggc 120

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cctccgccgg ccgcgggcat cgcgcacctg cagcctgtgg cgacgccgta ccccggccgc 300

gcggccgcgc cccccaacgc tccgggaggc cccccgggcc cgcagccggc cccaagcgcc 360

gcagccccgc cgccgcccgc gcacgccctg ggcggcatgg acgccgaact catcgacgag 420

gaggcgctga cgtcgctgga gctggagctg gggctgcacc gcgtgcgcga gctgcccgag 480

ctgttcctgg gccagagcga gttcgactgc ttctcggact tggggtccgc gccgcccgcc 540

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caccggacta cactcacgaa ccacatccgc acccacacag gcgaaaagcc cttcgcctgc 840

gacatctgtg gaagaaagtt tgccagagaa gacaatctcc atactcatac caagatccac 900

ttgcggcaga aggaccgccc ttacgcttgc ccagtggagt cctgtgatcg ccgcttctcc 960

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cgcatctgca tgagaaactt cagccagtct agctcactgg tgaggcacat ccgcacccac 1080

acaggcgaaa agcccttcgc ctgcgacatc tgtggaagaa agtttgccag ggaggataac 1140

ctgcatacgc ataccaagat ccacttgcgg cagaaggaca ag 1182

<210> 451

<211> 1893

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

polinucleótido sintético

<400> 451

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ggatcctttc ctcactcgcc caccatggac aactacccta agctggagga gatgatgctg 120

ctgagcaacg gggctcccca gttcctcggc gccgccgggg ccccagaggg cagcggcagc 180

aacagcagca gcagcagcag cgggggcggt ggaggcggcg ggggcggcag caacagcagc 240

agcagcagca gcaccttcaa ccctcaggcg gacacgggcg agcagcccta cgagcacctg 300

accgcagagt cttttcctga catctctctg aacaacgaga aggtgctggt ggagaccagt 360

taccccagcc aaaccactcg actgcccccc atcacctata ctggccgctt ttccctggag 420

cctgcaccca acagtggcaa caccttgtgg cccgagcccc tcttcagctt ggtcagtggc 480

ctagtgagca tgaccaaccc accggcctcc tcgtcctcag caccatctcc agcggcctcc 540

tccgcctccg cctcccagag cccacccctg agctgcgcag tgccatccaa cgacagcagt 600

cccatttact cagcggcacc caccttcccc acgccgaaca ctgacatttt ccctgagcca 660

caaagccagg ccttcccggg ctcggcaggg acagcgctcc agtacccgcc tcctgcctac 720

cctgccgcca agggtggctt ccaggttccc atgatccccg actacctgtt tccacagcag 780

caggggggatc tgggcctggg caccccagac cagaagccct tccagggcct ggagagccgc 840

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gggaatctga ctgagcacat ccgcatccac acaggccaga agcccttcca gtgccgcatc 1380

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gaaaagccct tcgcctgcga catctgtgga agaaagtttg cccagaatag taccctgacc 1500

gaacatacca agatccactt gcggcagaag gacaagaaag cagacaaaag tgttgtggct 1560

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ccgtcggtgg ccaccacgta ctcctctgtt ccccctgctt tcccggccca ggtcagcagc 1800

ttcccttcct cagctgtcac caactccttc agcgcctcca cagggctttc ggacatgaca 1860

gcaacctttt ctcccaggac aattgaaatt tgc 1893

<210> 452

<211> 1881

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

polinucleótido sintético

<400> 452

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ggatcctttc ctcactcgcc caccatggac aactacccta agctggagga gatgatgctg 120

ctgagcaacg gggctcccca gttcctcggc gccgccgggg ccccagaggg cagcggcagc 180

aacagcagca gcagcagcag cgggggcggt ggaggcggcg ggggcggcag caacagcagc 240

agcagcagca gcaccttcaa ccctcaggcg gacacgggcg agcagcccta cgagcacctg 300

accgcagagt cttttcctga catctctctg aacaacgaga aggtgctggt ggagaccagt 360

taccccagcc aaaccactcg actgcccccc atcacctata ctggccgctt ttccctggag 420

cctgcaccca acagtggcaa caccttgtgg cccgagcccc tcttcagctt ggtcagtggc 480

ctagtgagca tgaccaaccc accggcctcc tcgtcctcag caccatctcc agcggcctcc 540

tccgcctccg cctcccagag cccacccctg agctgcgcag tgccatccaa cgacagcagt 600

cccatttact cagcggcacc caccttcccc acgccgaaca ctgacatttt ccctgagcca 660

caaagccagg ccttcccggg ctcggcaggg acagcgctcc agtacccgcc tcctgcctac 720

cctgccgcca agggtggctt ccaggttccc atgatccccg actacctgtt tccacagcag 780

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atgcgcaagt accccaaccg gcccagcaag acgccccccc acgaacgccc ttacgcttgc 1020

ccagtggagt cctgtgatcg ccgcttctcc cgcagcgaca acctggtgag acacatccgc 1080

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accacgtact cctctgttcc ccctgctttc ccggcccagg tcagcagctt cccttcctca 1800

gctgtcacca actccttcag cgcctccaca gggctttcgg acatgacagc aacctttct 1860

cccaggacaa ttgaaatttg c 1881

<210> 453

<211> 1881

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

polinucleótido sintético

<400> 453

atggccgcgg ccaaggccga gatgcagctg atgtccccgc tgcagatctc tgacccgttc 60

ggatcctttc ctcactcgcc caccatggac aactacccta agctggagga gatgatgctg 120

ctgagcaacg gggctcccca gttcctcggc gccgccgggg ccccagaggg cagcggcagc 180

aacagcagca gcagcagcag cgggggcggt ggaggcggcg ggggcggcag caacagcagc 240

agcagcagca gcaccttcaa ccctcaggcg gacacgggcg agcagcccta cgagcacctg 300

accgcagagt cttttcctga catctctctg aacaacgaga aggtgctggt ggagaccagt 360

taccccagcc aaaccactcg actgcccccc atcacctata ctggccgctt ttccctggag 420

cctgcaccca acagtggcaa caccttgtgg cccgagcccc tcttcagctt ggtcagtggc 480

ctagtgagca tgaccaaccc accggcctcc tcgtcctcag caccatctcc agcggcctcc 540

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gagaagccat tcgcatgtga tatatgtggg agaaagttct ccaccagcca ttctctcact 1320

gaacacatcc gcatccacac aggccagaag cccttccagt gccgcatctg catgagaaac 1380

ttcagccagt ctagctcact ggtgaggcac atccgcaccc acacaggcga aaagcccttc 1440

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accacgtact cctctgttcc ccctgctttc ccggcccagg tcagcagctt cccttcctca 1800

gctgtcacca actccttcag cgcctccaca gggctttcgg acatgacagc aacctttctt 1860

cccaggacaa ttgaaatttg c 1881

<210> 454

<211> 4436

<212> DNA

<213> Secuencia Artificial

<220>

<223> Descripción de secuencia artificial:

polinucleótido sintético

<400> 454

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attttgaagt tctgttgaca taaagaatca tgatattaat gcccatggaa atgaaagggc 120

gatcaacact atggtttgaa aaggggggaaa ttgtagagca cagatgtgtt cgtgtggcag 180

tgtgctgtct ctagcaatac tcagagaaga gagagaacaa tgaaattctg attggcccca 240

gtgtgagccc agatgaggtt cagctgccaa ctttctcttt cacatcttat gaaagtcatt 300

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ggcgtcagcc actatgccca acccgaccaa ccttttttaa aataaatatt taaaaaattg 660

gtatttcaca tatatactag tatttacatt tatccacaca aaacggacgg gcctccgctg 720

aaccagtgag gccccagacg tgcgcataaa taacccctgc gtgctgcacc acctggggag 780

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actctgcccc cgcctacccc ggagccgtgc agccgcctct ccgaatctct ctcttctcct 1260

ggcgctcgcg tgcgagaggg aactagcgag aacgaggaag cagctggagg tgacgccggg 1320

cagattacgc ctgtcagggc cgagccgagc ggatcgctgg gcgctgtgca gaggaaaggc 1380

gggagtgccc ggctcgctgt cgcagagccg aggtgggtaa gctagcgacc acctggactt 1440

cccagcgccc aaccgtggct tttcagccag gtcctctcct cccgcggctt ctcaaccaac 1500

cccatcccag cgccggccac ccaacctccc gaaatgagtg cttcctgccc cagcagccga 1560

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caaagtccct agtccccgga gcagttagcc tctttctttc cagggaatta gccagacaca 1800

acaacgggaa ccagacaccg aaccagacat gcccgccccg tgcgccctcc ccgctcgctg 1860

cctttcctcc ctcttgtctc tccagagccg gatcttcaag gggagcctcc gtgcccccgg 1920

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