

P-2018-16434 TRADUCCIÓN LISTADO DE SECUENCIAS.txt
LISTA DE SECUENCIAS

<110> Omeros Corporation
Universidad de Leicester
Cummings, W. Jason
Demopulos, Gregory A.
Dudler, Thomas
Schwaeble, Hans-Wilhelm
Tjoelker, Larry W.
Wood, Christi L.
Yabuki, Munehisa

<120> Composiciones y métodos de inhibición del MASP-3 para el tratamiento de diversas enfermedades y trastornos

<130> MP.1.0254.PCT

<150> US 62/478,336
<151> 29-03-2017

<150> US 62/419,420
<151> 08-11-2016

<150> US 62/369,674
<151> 01-08-2016

<160> 313

<170> PatentIn versión 3.5

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

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 Leu Glu Pro Glu Gly Pro Ala Pro His Met Leu Gly Leu Val Ala Gly
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 625 630 635 640
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 Leu Tyr Phe Met His Phe Asn Leu Glu Ser Ser Tyr Leu Cys Glu Tyr
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 Asp Tyr Val Lys Val Glu Thr Glu Asp Gln Val Leu Ala Thr Phe Cys
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 Ile Ser Thr Gln Thr His Ser Val Gln Ile Leu Phe Arg Ser Asp Asn
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 Glu Cys Leu Lys Asp Gly Ala Trp Ser Asn Lys Ile Pro Thr Cys Lys
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Tyr Tyr Glu Gly Gly Lys Asp Thr Cys Leu Gly Asp Ser Gly Gly Ala
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Val Ser Trp Gly Gly Pro Glu Glu Cys Gly Ser Lys Gln Val Tyr Gly
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Pro Asn Asp Lys Trp Phe Gly Ser Gly Ala Leu Leu Ser Glu Ser Trp
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Ile Leu Thr Ala Ala His Val Leu Arg Ser Gln Arg Arg Asp Asn Thr
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Glu Gln Ala Pro Gly Gln Gln Val Ile Leu Ser Pro Gly Pro Tyr Met
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 210 215 220

Ser Leu Gln Phe Glu Asp Ile Phe Asp Ile Glu Asp His Pro Glu Val
 225 230 235 240

Pro Cys Pro Tyr Asp Tyr Ile Lys Ile Lys Val Gly Glu Asn Val Trp
 245 250 255

Gly Pro Tyr Cys Gly Glu Lys Ala Pro Glu Ala Ile Ser Thr Gln Ser
 260 265 270

His Ser Val Gln Ile Leu Phe Arg Ser Asp Asn Ser Gly Glu Asn Arg
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Gly Trp Arg Leu Ser Tyr Arg Ala Ala Gly Asn Glu Cys Ser Glu Leu
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Gln Pro Pro Asp Gln Gly Lys Ile Glu Pro Leu Gln Ala Lys Tyr Phe
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Lys Asp Asp Val Glu Met Asp Thr Phe Gln Ile Glu Cys Leu Lys Asp
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Gly Thr Trp Ser Asn Lys Ile Pro Thr Cys Lys Met Val Asp Cys Gly
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Ile Pro Val Cys Gly Gln Pro Ser Arg Ser Leu Pro Ser Leu Ile Lys
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Arg Ile Ile Gly Gly Arg Asn Ala Glu Pro Gly Leu Phe Pro Trp Gln
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Phe Gly Ser Gly Ala Leu Leu Ser Glu Ser Trp Ile Leu Thr Ala Ala
485 490 495

His Val Leu Arg Ser Gln Arg Arg Asp Asn Thr Val Ile Pro Val Ser
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Arg Glu His Val Thr Val Tyr Leu Gly Leu His Asp Val Arg Asp Lys
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Ser Gly Ala Val Asn Ser Ser Ala Ala Arg Val Leu Leu His Pro Asp
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Phe Asn Ile Gln Asn Tyr Asn His Asp Ile Ala Leu Val Gln Leu Gln
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Glu Pro Val Pro Leu Gly Pro His Val Met Pro Ile Cys Leu Pro Arg
565 570 575

Pro Glu Pro Glu Gly Pro Ala Pro Tyr Met Leu Gly Leu Val Ala Gly
580 585 590

Trp Gly Ile Ser Asn Pro Asn Val Thr Val Asp Glu Ile Ile Ser Ser
595 600 605

Gly Thr Arg Thr Leu Ser Asp Ile Leu Gln Tyr Val Lys Leu Pro Val
610 615 620

Val Pro His Ala Glu Cys Lys Thr Ser Tyr Glu Ser Arg Ser Gly Asn
625 630 635 640

Tyr Ser Val Thr Glu Asn Met Phe Cys Ala Gly Tyr Tyr Glu Gly Gly
645 650 655

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

Asp Leu Ser Arg Arg Trp Val Ala Gln Gly Leu Val Ser Trp Gly Gly
675 680 685

Pro Glu Glu Cys Gly Ser Lys Gln Val Tyr Gly Val Tyr Thr Lys Val
690 695 700

Ser Asn Tyr Val Asp Trp Val Trp Glu Gln Met Gly Ser Pro Gln Gly
705 710 715 720

Leu Gly Glu Leu Gln Val Glu Arg
725

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<400> 7

Met Arg Trp Leu Leu Leu Tyr His Ala Leu Cys Phe Ser Leu Ser Lys
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Ala Ser Ala His Thr Val Glu Leu Asn Asp Met Phe Gly Gln Ile Gln
Página 11

20

25

30

Ser Pro Gly Tyr Pro Asp Ser Tyr Pro Ser Asp Ser Glu Val Thr Trp
 35 40 45

Asn Ile Thr Val Pro Asp Gly Phe Arg Ile Lys Leu Tyr Phe Met His
 50 55 60

Phe Asn Leu Glu Ser Ser Tyr Leu Cys Glu Tyr Asp Tyr Val Lys Val
 65 70 75 80

Glu Thr Glu Asp Gln Val Leu Ala Thr Phe Cys Gly Arg Glu Thr Thr
 85 90 95

Asp Thr Glu Gln Thr Pro Gly Gln Glu Val Val Leu Ser Pro Gly Ser
 100 105 110

Phe Met Ser Ile Thr Phe Arg Ser Asp Phe Ser Asn Glu Glu Arg Phe
 115 120 125

Thr Gly Phe Asp Ala His Tyr Met Ala Val Asp Val Asp Glu Cys Lys
 130 135 140

Glu Arg Glu Asp Glu Glu Leu Ser Cys Asp His Tyr Cys His Asn Tyr
 145 150 155 160

Ile Gly Gly Tyr Tyr Cys Ser Cys Arg Phe Gly Tyr Ile Leu His Thr
 165 170 175

Asp Asn Arg Thr Cys Arg Val Glu Cys Ser Asp Asn Leu Phe Thr Gln
 180 185 190

Arg Thr Gly Val Ile Thr Ser Pro Asp Phe Pro Asn Pro Tyr Pro Lys
 195 200 205

Ser Ser Glu Cys Leu Tyr Thr Ile Glu Leu Glu Glu Gly Phe Met Val
 210 215 220

Asn Leu Gln Phe Glu Asp Ile Phe Asp Ile Glu Asp His Pro Glu Val
 225 230 235 240

Pro Cys Pro Tyr Asp Tyr Ile Lys Ile Lys Val Gly Pro Lys Val Leu
 245 250 255

Gly Pro Phe Cys Gly Glu Lys Ala Pro Glu Pro Ile Asn Thr Gln Ser
 260 265 270

His Ser Val Leu Ile Leu Phe His Ser Asp Asn Ser Gly Glu Asn Arg
 275 280 285

Gly Trp Arg Leu Ser Tyr Arg Ala Ala Gly Asn Glu Cys Pro Glu Leu
 290 295 300

Gln Pro Pro Val His Gly Lys Ile Glu Pro Ser Gln Ala Lys Tyr Ser
 305 310 315 320

Phe Lys Asp Gln Val Leu Ile Ser Cys Asp Thr Gly Tyr Lys Val Leu
 325 330 335

Lys Asp Asn Val Glu Met Asp Thr Phe Gln Ile Glu Cys Leu Lys Asp
 340 345 350

Gly Thr Trp Ser Asn Lys Ile Pro Thr Cys Lys Ile Val Asp Cys Arg
 355 360 365

Ala Pro Gly Glu Leu Glu His Gly Leu Val Thr Phe Ser Thr Arg Asn
 370 375 380

Asn Leu Thr Thr Tyr Lys Ser Glu Ile Arg Tyr Ser Cys Gln Glu Pro
 385 390 395 400

Tyr Tyr Lys Met Leu Asn Asn Ile Thr Gly Ile Tyr Thr Cys Ser Ala
 405 410 415

Gln Gly Val Trp Met Asn Lys Val Leu Gly Arg Ser Leu Pro Thr Cys
 420 425 430

Leu Pro Glu Cys Gly Gln Pro Ser Arg Ser Leu Pro Ser Leu Val Lys
 435 440 445
 Arg Ile Ile Gly Gly Arg Asn Ala Glu Pro Gly Leu Phe Pro Trp Gln
 450 455 460
 Ala Leu Ile Val Val Glu Asp Thr Ser Arg Val Pro Asn Asp Lys Trp
 465 470 475 480
 Phe Gly Ser Gly Ala Leu Leu Ser Glu Ser Trp Ile Leu Thr Ala Ala
 485 490 495
 His Val Leu Arg Ser Gln Arg Arg Asp Thr Thr Val Ile Pro Val Ser
 500 505 510
 Lys Glu His Val Thr Val Tyr Leu Gly Leu His Asp Val Arg Asp Lys
 515 520 525
 Ser Gly Ala Val Asn Ser Ser Ala Ala Arg Val Val Leu His Pro Asp
 530 535 540
 Phe Asn Ile Gln Asn Tyr Asn His Asp Ile Ala Leu Val Gln Leu Gln
 545 550 555 560
 Glu Pro Val Pro Leu Gly Pro His Val Met Pro Val Cys Leu Pro Arg
 565 570 575
 Leu Glu Pro Glu Gly Pro Ser Pro His Met Leu Gly Leu Val Ala Gly
 580 585 590
 Trp Gly Ile Ser Asn Pro Asn Val Thr Val Asp Glu Ile Ile Ser Ser
 595 600 605
 Gly Thr Arg Thr Leu Ser Asp Val Leu Gln Tyr Val Lys Leu Pro Val
 610 615 620
 Val Pro His Ala Glu Cys Lys Thr Ser Tyr Glu Ser Arg Ser Gly Asn
 625 630 635 640
 Tyr Ser Val Thr Glu Asn Met Phe Cys Ala Gly Tyr Tyr Glu Gly Gly
 645 650 655
 Lys Asp Thr Cys Leu Gly Asp Ser Gly Gly Ala Phe Val Ile Leu Asp
 660 665 670
 Asp Leu Ser Gln Arg Trp Val Val Gln Gly Leu Val Ser Trp Gly Gly
 675 680 685
 Pro Glu Glu Cys Gly Ser Lys Gln Val Tyr Gly Val Tyr Thr Lys Val
 690 695 700
 Ser Asn Tyr Val Asp Trp Val Trp Glu Gln Met Gly Ser Pro Gln Gly
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 Arg Ala Pro Gly Gly Thr Val Ser
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<400> 8

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 Ala Ser Ala His Thr Val Glu Leu Asn Asn Met Phe Gly Gln Ile Gln
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 Ser Pro Gly Tyr Pro Asp Ser Tyr Pro Ser Asp Ser Glu Val Thr Trp
 35 40 45
 Asn Ile Thr Val Pro Asp Gly Phe Arg Ile Lys Leu Tyr Phe Met His
 50 55 60
 Phe Asn Leu Glu Ser Ser Tyr Leu Cys Glu Tyr Asp Tyr Val Lys Val
 65 70 75 80

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Glu Thr Glu Asp Gln Val Leu Ala Thr Phe Cys Gly Arg Glu Thr Thr
85 90 95

Asp Thr Glu Gln Thr Pro Gly Gln Glu Val Val Leu Ser Pro Gly Ser
100 105 110

Phe Met Ser Ile Thr Phe Arg Ser Asp Phe Ser Asn Glu Glu Arg Phe
115 120 125

Thr Gly Phe Asp Ala His Tyr Met Ala Val Asp Val Asp Glu Cys Lys
130 135 140

Glu Arg Glu Asp Glu Glu Leu Ser Cys Asp His Tyr Cys His Asn Tyr
145 150 155 160

Ile Gly Gly Tyr Tyr Cys Ser Cys Arg Phe Gly Tyr Ile Leu His Thr
165 170 175

Asp Asn Arg Thr Cys Arg Val Glu Cys Ser Asp Asn Leu Phe Thr Gln
180 185 190

Arg Thr Gly Val Ile Thr Ser Pro Asp Phe Pro Asn Pro Tyr Pro Lys
195 200 205

Ser Ser Glu Cys Leu Tyr Thr Ile Glu Leu Glu Glu Gly Phe Met Val
210 215 220

Asn Leu Gln Phe Glu Asp Ile Phe Asp Ile Glu Asp His Pro Glu Val
225 230 235 240

Pro Cys Pro Tyr Asp Tyr Ile Lys Ile Lys Val Gly Pro Lys Val Leu
245 250 255

Gly Pro Phe Cys Gly Glu Lys Ala Pro Glu Pro Ile Ser Thr Gln Ser
260 265 270

His Ser Val Leu Ile Leu Phe His Ser Asp Asn Ser Gly Glu Asn Arg
275 280 285

Gly Trp Arg Leu Ser Tyr Arg Ala Ala Gly Asn Glu Cys Pro Glu Leu
290 295 300

Gln Pro Pro Val His Gly Lys Ile Glu Pro Ser Gln Ala Lys Tyr Phe
305 310 315 320

Phe Lys Asp Gln Val Leu Val Ser Cys Asp Thr Gly Tyr Lys Val Leu
325 330 335

Lys Asp Asn Val Glu Met Asp Thr Phe Gln Ile Glu Cys Leu Lys Asp
340 345 350

Gly Thr Trp Ser Asn Lys Ile Pro Thr Cys Lys Ile Val Asp Cys Arg
355 360 365

Ala Pro Gly Glu Leu Glu His Gly Leu Ile Thr Phe Ser Thr Arg Asn
370 375 380

Asn Leu Thr Thr Tyr Lys Ser Glu Ile Lys Tyr Ser Cys Gln Glu Pro
385 390 395 400

Tyr Tyr Lys Met Leu Asn Asn Asn Thr Gly Ile Tyr Thr Cys Ser Ala
405 410 415

Gln Gly Val Trp Met Asn Lys Val Leu Gly Arg Ser Leu Pro Thr Cys
420 425 430

Leu Pro Val Cys Gly Leu Pro Lys Phe Ser Arg Lys Leu Met Ala Arg
435 440 445

Ile Phe Asn Gly Arg Pro Ala Gln Lys Gly Thr Thr Pro Trp Ile Ala
450 455 460

Met Leu Ser His Leu Asn Gly Gln Pro Phe Cys Gly Gly Ser Leu Leu
465 470 475 480

Gly Ser Ser Trp Ile Val Thr Ala Ala His Cys Leu His Gln Ser Leu
485 490 495

Asp Pro Lys Asp Pro Thr Leu Arg Asp Ser Asp Leu Leu Ser Pro Ser
500 505 510

Asp Phe Lys Ile Ile Leu Gly Lys His Trp Arg Leu Arg Ser Asp Glu
515 520 525

Asn Glu Gln His Leu Gly Val Lys His Thr Thr Leu His Pro Lys Tyr
530 535 540

Asp Pro Asn Thr Phe Glu Asn Asp Val Ala Leu Val Glu Leu Leu Glu
545 550 555 560

Ser Pro Val Leu Asn Ala Phe Val Met Pro Ile Cys Leu Pro Glu Gly
565 570 575

Pro Gln Gln Glu Gly Ala Met Val Ile Val Ser Gly Trp Gly Lys Gln
580 585 590

Phe Leu Gln Arg Phe Pro Glu Thr Leu Met Glu Ile Glu Ile Pro Ile
595 600 605

Val Asp His Ser Thr Cys Gln Lys Ala Tyr Ala Pro Leu Lys Lys Lys
610 615 620

Val Thr Arg Asp Met Ile Cys Ala Gly Glu Lys Glu Gly Gly Lys Asp
625 630 635 640

Ala Cys Ser Gly Asp Ser Gly Gly Pro Met Val Thr Leu Asn Arg Glu
645 650 655

Arg Gly Gln Trp Tyr Leu Val Gly Thr Val Ser Trp Gly Asp Asp Cys
660 665 670

Gly Lys Lys Asp Arg Tyr Gly Val Tyr Ser Tyr Ile His His Asn Lys
675 680 685

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

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<400> 11

Asp Phe Asn Ile Gln Asn Tyr Asn His Asp Ile Ala Leu Val Gln
1 5 10 15

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<400> 12

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Gly	Asn	Tyr	Ser	Val	Thr	Glu	Asn	Met	Phe	Cys
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Val	Ser	Asn	Tyr	Val	Asp	Trp	Val	Trp	Glu
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Val	Leu	Arg	Ser	Gln	Arg	Arg	Asp	Thr	Thr	Val
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<212> PRT

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Glu	Cys	Gly	Gln	Pro	Ser	Arg	Ser	Leu	Pro	Ser	Leu	Val
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<210> 17

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<220>

<223> Sintético

<400> 17

Arg	Asn	Ala	Glu	Pro	Gly	Leu	Phe	Pro	Trp	Gln
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<210> 18

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<212> PRT

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<223> Sintético

<400> 18

Lys	Trp	Phe	Gly	Ser	Gly	Ala	Leu	Leu	Ser	Ala	Ser	Trp	Ile	Leu
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<400> 19

Glu	His	Val	Thr	Val	Tyr	Leu	Gly	Leu	His
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<220>
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Pro Val Pro Leu Gly Pro His Val Met Pro
 1 5 10

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<220>
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<400> 21

Ala Pro His Met Leu Gly Leu
 1 5

<210> 22
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<400> 22

Ser Asp Val Leu Gln Tyr Val Lys Leu Pro
 1 5 10

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<400> 23

Ala Phe Val Ile Phe Asp Asp Leu Ser Gln Arg Trp
 1 5 10

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<220>
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<400> 24

Gln Val Gln Leu Lys Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala
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Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Thr Asp
 20 25 30

Asp Ile Asn Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45

Gly Trp Ile Tyr Pro Arg Asp Asp Arg Thr Lys Tyr Asn Asp Lys Phe
 50 55 60

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

Met Asp Leu His Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Phe Cys
 85 90 95

Ser Ser Leu Glu Asp Thr Tyr Trp Gly Gln Gly Thr Leu Val Ala Val
 100 105 110

Ser Ser

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 Gln Val Gln Leu Lys Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Asn
 20 25 30
 Asp Ile Asn Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45
 Gly Trp Ile Tyr Pro Arg Asp Gly Ser Ile Lys Tyr Asn Glu Lys Phe
 50 55 60
 Thr Asp Lys Ala Thr Leu Thr Val Asp Val Ser Ser Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu His Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Phe Cys
 85 90 95
 Ser Gly Val Glu Asp Ser Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
 100 105 110
 Ser Ser

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 Gln Val Gln Leu Lys Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Asn
 20 25 30
 Asp Ile Asn Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45
 Gly Trp Ile Tyr Pro Arg Asp Gly Thr Thr Lys Tyr Asn Glu Glu Phe
 50 55 60
 Thr Asp Lys Ala Thr Leu Thr Val Asp Val Ser Ser Ser Thr Ala Phe
 65 70 75 80
 Met Glu Leu His Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Phe Cys
 85 90 95
 Ser Ser Val Glu Asp Ser Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
 100 105 110
 Ser Ser

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 <212> PRT
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 Gln Val Gln Leu Lys Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Asn
 20 25 30
 Asp Ile Asn Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45
 Gly Trp Ile Tyr Pro Arg Asp Gly Thr Thr Lys Tyr Asn Glu Lys Phe

50

55

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

Met Glu Leu His Arg Leu Thr Ser Glu Asp Ser Ala Val Tyr Phe Cys
85 90 95

Ser Ser Val Glu Asp Ser Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
100 105 110

Ser Ser

<210> 28
<211> 116
<212> PRT
<213> Secuencia artificial

<220>
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<400> 28

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

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

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

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

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

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

Ala Arg Gly Gly Glu Ala Met Asp Tyr Trp Gly Gln Gly Thr Ser Val
100 105 110

Thr Val Ser Ser
115

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<212> PRT
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<400> 29

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

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

Gly Ile Thr Trp Val Lys Gln Ala Pro Gly Lys Gly Leu Lys Trp Met
35 40 45

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

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

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

Thr Arg Gly Gly Asp Ala Leu Asp Tyr Trp Gly Gln Gly Thr Ser Val
100 105 110

Thr Val Ser Ser
115

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

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

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

Gly Glu Ile Leu Pro Gly Thr Gly Ser Thr Asn Tyr Asn Glu Lys Phe
 50 55 60

Lys Gly Lys Ala Thr Phe Thr Ala Asp Ser Ser Ser Asn Thr Ala Tyr
 65 70 75 80

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

Leu Arg Ser Glu Asp Val Trp Gly Thr Gly Thr Thr Val Thr Val Ser
 100 105 110

Ser

<210> 31
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<400> 31

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

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

Trp Ile Glu Trp Ile Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45

Gly Glu Met Leu Pro Gly Ser Gly Ser Thr His Tyr Asn Glu Lys Phe
 50 55 60

Lys Gly Lys Ala Thr Phe Thr Ala Asp Thr Ser Ser Asn Thr Ala Tyr
 65 70 75 80

Met Gln Leu Ser Gly Leu Thr Thr Glu Asp Ser Ala Ile Tyr Tyr Cys
 85 90 95

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

Ser

<210> 32
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<400> 32

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

Ser Val Lys Ile Ser Cys Gln Ala Phe Tyr Thr Phe Ser Arg Arg Val
 20 25 30

His Phe Ala Ile Arg Asp Thr Asn Tyr Trp Met Gln Trp Val Lys Gln
 Página 20

35

40

45

Arg Pro Gly Gln Gly Leu Glu Trp Ile Gly Ala Ile Tyr Pro Gly Asn
50 55 60

Gly Asp Thr Ser Tyr Asn Gln Lys Phe Lys Gly Lys Ala Thr Leu Thr
65 70 75 80

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

Ser Glu Asp Ser Ala Val Tyr Tyr Cys Ala Ser Gly Ser His Tyr Phe
100 105 110

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

<210> 33
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<400> 33

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

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

Tyr Met Asn Trp Val Lys Gln Ser His Gly Lys Ser Leu Glu Trp Ile
35 40 45

Gly Asp Val Asn Pro Asn Asn Asp Gly Thr Thr Tyr Asn Gln Lys Phe
50 55 60

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

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

Ala Ile Cys Pro Phe Tyr Tyr Leu Gly Lys Gly Thr His Phe Asp Tyr
100 105 110

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

<210> 34
<211> 124
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<400> 34

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

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

Tyr Met Ile Trp Val Lys Gln Ser His Gly Lys Ser Leu Glu Trp Ile
35 40 45

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

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

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

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

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

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<400> 35

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

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

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

Gly Glu Ile Leu Pro Gly Ser Gly Thr Thr Asn Tyr Asn Glu Asn Phe
 50 55 60

Lys Asp Arg Ala Thr Phe Thr Ala Asp Thr Ser Ser Asn Thr Ala Tyr
 65 70 75 80

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

Ala Arg Ser Tyr Tyr Tyr Ala Ser Arg Trp Phe Ala Phe Trp Gly Gln
 100 105 110

Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 36
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<400> 36

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

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

Trp Ile Thr Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45

Gly Asp Ile Tyr Pro Gly Ser Gly Ser Thr Asn Tyr Asn Glu Lys Phe
 50 55 60

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

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

Ala Arg Arg Arg Tyr Tyr Ala Thr Ala Trp Phe Ala Tyr Trp Gly Gln
 100 105 110

Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 37
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<400> 37

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

Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr

20

25

30

Tyr Ile Asn Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45

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

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

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

Ala Arg Asn Tyr Tyr Ile Ser Ser Pro Trp Phe Ala Tyr Trp Gly Gln
 100 105 110

Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 38
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<400> 38

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

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

Pro Ile Glu Trp Met Lys Gln Asn His Gly Lys Ser Leu Glu Trp Ile
 35 40 45

Gly Asn Phe His Pro Tyr Asn Asp Asp Thr Lys Tyr Asn Glu Lys Phe
 50 55 60

Lys Gly Lys Ala Thr Leu Thr Val Glu Lys Ser Ser Asn Thr Val Tyr
 65 70 75 80

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

Ala Arg Arg Val Tyr Tyr Ser Tyr Phe Trp Phe Gly Tyr Trp Gly His
 100 105 110

Gly Thr Leu Val Thr Val Ser Ser
 115 120

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<400> 39

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

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

Pro Ile Glu Trp Met Lys Gln Asn His Gly Lys Ser Leu Glu Trp Ile
 35 40 45

Gly Asn Phe His Pro Tyr Asn Gly Asp Ser Lys Tyr Asn Glu Lys Phe
 50 55 60

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

Leu Glu Leu Ser Arg Leu Pro Ser Ala Asp Ser Ala Ile Tyr Tyr Cys
 85 90 95

Ala Arg Arg His Tyr Ala Ala Ser Pro Trp Phe Ala His Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

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

Glu Lys Val Thr Met Thr Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser
20 25 30

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

Ser Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
50 55 60

Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Ser Leu Thr
65 70 75 80

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

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

Arg

<210> 41
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<400> 41

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

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

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

Ser Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
50 55 60

Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
65 70 75 80

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

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

Arg

<210> 42
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<220>
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<400> 42

Asp Ile Val Met Thr Gln Ser Pro Ser Ser Leu Ala Val Ser Ala Gly

1 5 10 15

Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser Leu Leu Ile Ser
20 25 30

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

Ser Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
50 55 60

Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
65 70 75 80

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

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

Arg

<210> 43
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<400> 43

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

Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Asp Ser
20 25 30

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

Pro Lys Arg Leu Ile Tyr Leu Val Ser Lys Leu Asp Ser Gly Val Pro
50 55 60

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

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

Thr His Phe Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105 110

Arg

<210> 44
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<400> 44

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

Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Asp Ser
20 25 30

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

Pro Lys Arg Leu Ile Tyr Leu Val Ser Lys Leu Asp Ser Gly Val Pro
50 55 60

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

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

Thr His Phe Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105 110

Arg

<210> 45
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<400> 45

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

Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser
20 25 30

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

Ser Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
50 55 60

Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
65 70 75 80

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

Ser Tyr Asn Ile Pro Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105 110

Arg

<210> 46
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<212> PRT
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<400> 46

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

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

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

Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
50 55 60

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

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

Thr His Val Pro Pro Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105 110

Arg

<210> 47
<211> 108
<212> PRT
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<220>
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<400> 47

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

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

Ile His Trp Tyr Gln Gln Arg Thr Asn Gly Ser Pro Arg Leu Leu Ile
35 40 45

Lys Tyr Ala Ser Glu Ser Ile Ser Gly Ile Pro Ser Arg Phe Ser Gly
50 55 60

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

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

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys Arg
100 105

<210> 48

<211> 108

<212> PRT

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<223> Sintético

<400> 48

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

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

Leu Asn Trp Tyr Gln Gln Lys Pro Asn Gly Thr Val Lys Leu Leu Val
35 40 45

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

Ser Gly Ser Gly Ala Glu His Ser Leu Thr Ile Ser Asn Leu Glu Gln
65 70 75 80

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

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

<210> 49

<211> 113

<212> PRT

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<220>

<223> Sintético

<400> 49

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

Asp Gln Ala Ser Phe Ser Cys Arg Ser Ser Gln Ser Leu Ile His Ser
20 25 30

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

Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
50 55 60

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

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

Thr His Val Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
 100 105 110

Arg

<210> 50
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<400> 50

Asp Ile Val Met Thr Gln Ser Gln Lys Phe Met Ser Thr Ser Ile Gly
 1 5 10 15

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

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

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

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

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

Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
 100 105

<210> 51
 <211> 108
 <212> PRT
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<220>
 <223> Sintético

<400> 51

Asp Ile Val Met Thr Gln Ser Gln Lys Phe Met Ser Thr Ser Val Gly
 1 5 10 15

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

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

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

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Asn Met Gln Ser
 65 70 75 80

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

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

<210> 52
 <211> 108
 <212> PRT
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<220>
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<400> 52

Asp Ile Val Met Thr Gln Ser Gln Lys Phe Met Ser Thr Ser Val Gly
 1 5 10 15

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

Val Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Ala Leu Ile

35

40

45

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

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

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

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

<210> 53
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 <212> PRT
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<220>
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<400> 53

Asp Ile Val Met Thr Gln Ser Gln Lys Phe Met Ser Thr Ser Val Gly
 1 5 10 15

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

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

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

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

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

Ala Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys Arg
 100 105 110

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

<220>
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<400> 54

Asp Ile Val Met Thr Gln Ser Gln Lys Phe Met Ser Thr Ser Val Gly
 1 5 10 15

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

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

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

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Asn Val His Ser
 65 70 75 80

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

Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
 100 105

<210> 55
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 <212> PRT
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<220>
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<400> 55

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

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

<210> 56

<211> 5

<212> PRT

<213> Secuencia artificial

<220>

<223> Sintético

<400> 56

Thr Asp Asp Ile Asn
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<210> 57

<211> 14

<212> PRT

<213> Secuencia artificial

<220>

<223> Sintético

<400> 57

Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile Gly
 1 5 10

<210> 58

<211> 17

<212> PRT

<213> Secuencia artificial

<220>

<223> Sintético

<400> 58

Trp Ile Tyr Pro Arg Asp Asp Arg Thr Lys Tyr Asn Asp Lys Phe Lys
 1 5 10 15

Asp

<210> 59

<211> 32

<212> PRT

<213> Secuencia artificial

<220>

<223> Sintético

<400> 59

Lys Ala Thr Leu Thr Val Asp Thr Ser Ser Asn Thr Ala Tyr Met Asp
 1 5 10 15

Leu His Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Phe Cys Ser Ser
 20 25 30

<210> 60

<211> 5

<212> PRT

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<400> 60

Leu Glu Asp Thr Tyr
 1 5

<210> 61

<211> 11

<212> PRT

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<220>

<223> Sintético

<400> 61

Trp Gly Gln Gly Thr Leu Val Ala Val Ser Ser
 1 5 10

<210> 62

<211> 5
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<400> 62

Ser Asn Asp Ile Asn
 1 5

<210> 63
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<220>
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<400> 63

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

Asp

<210> 64
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 <212> PRT
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<220>
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<400> 64

Lys Ala Thr Leu Thr Val Asp Val Ser Ser Ser Thr Ala Tyr Met Glu
 1 5 10 15

Leu His Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Phe Cys Ser Gly
 20 25 30

<210> 65
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<220>
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<400> 65

Val Glu Asp Ser Tyr
 1 5

<210> 66
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<220>
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<400> 66

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 1 5 10

<210> 67
 <211> 17
 <212> PRT
 <213> Secuencia artificial

<220>
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<400> 67

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

Asp

<210> 68
 <211> 32
 <212> PRT
 <213> Secuencia artificial

<220>
 <223> Sintético

<400> 68

Lys Ala Thr Leu Thr Val Asp Val Ser Ser Ser Thr Ala Phe Met Glu
 1 5 10 15

Leu His Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Phe Cys Ser Ser
 20 25 30

<210> 69

<211> 17

<212> PRT

<213> Secuencia artificial

<220>

<223> Sintético

<400> 69

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

Asp

<210> 70

<211> 32

<212> PRT

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<220>

<223> Sintético

<400> 70

Lys Ala Thr Leu Thr Val Asp Val Ser Ser Ser Thr Ala Phe Met Glu
 1 5 10 15

Leu His Arg Leu Thr Ser Glu Asp Ser Ala Val Tyr Phe Cys Ser Ser
 20 25 30

<210> 71

<211> 30

<212> PRT

<213> Secuencia artificial

<220>

<223> Sintético

<400> 71

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

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

<210> 72

<211> 5

<212> PRT

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<220>

<223> Sintético

<400> 72

Ser Tyr Gly Met Ser
 1 5

<210> 73

<211> 14

<212> PRT

<213> Secuencia artificial

<220>

<223> Sintético

<400> 73

Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Lys Trp Met Gly
 1 5 10

<210> 74

<211> 17

<212> PRT

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<220>

<223> Sintético

<400> 74

Trp Ile Asn Thr Tyr Ser Gly Val Pro Thr Tyr Ala Asp Asp Phe Lys
 Página 32

1 5

Gly

<210> 75
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<212> PRT
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<220>
<223> Sintético

<400> 75

Arg Phe Ala Phe Ser Leu Glu Thr Ser Ala Arg Thr Pro Tyr Leu Gln
1 5 10 15

Ile Asn Asn Leu Lys Asn Glu Asp Thr Ala Thr Tyr Phe Cys Ala Arg
20 25 30

<210> 76
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<400> 76

Gly Gly Glu Ala Met Asp Tyr
1 5

<210> 77
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<220>
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<400> 77

Trp Gly Gln Gly Thr Ser Val Thr Val Ser Ser
1 5 10

<210> 78
<211> 30
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<220>
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<400> 78

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

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

<210> 79
<211> 5
<212> PRT
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<400> 79

Ser Tyr Gly Ile Thr
1 5

<210> 80
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<400> 80

Trp Val Lys Gln Ala Pro Gly Lys Gly Leu Lys Trp Met Gly
1 5 10

<210> 81
<211> 32
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<223> Sintético

<400> 81

Arg	Phe	Ala	Phe	Ser	Leu	Glu	Thr	Ser	Ala	Ser	Thr	Ala	Tyr	Leu	Gln
1				5					10					15	

Ile	Asn	Asn	Leu	Lys	Asn	Glu	Asp	Thr	Thr	Thr	Tyr	Phe	Cys	Thr	Arg
			20					25					30		

<210> 82

<211> 7

<212> PRT

<213> Secuencia artificial

<220>

<223> Sintético

<400> 82

Gly	Gly	Asp	Ala	Leu	Asp	Tyr
1				5		

<210> 83

<211> 30

<212> PRT

<213> Secuencia artificial

<220>

<223> Sintético

<400> 83

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

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

<210> 84

<211> 5

<212> PRT

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<220>

<223> Sintético

<400> 84

Gly	Lys	Trp	Ile	Glu
1				5

<210> 85

<211> 14

<212> PRT

<213> Secuencia artificial

<220>

<223> Sintético

<400> 85

Trp	Val	Lys	Gln	Arg	Pro	Gly	His	Gly	Leu	Glu	Trp	Ile	Gly
1				5					10				

<210> 86

<211> 17

<212> PRT

<213> Secuencia artificial

<220>

<223> Sintético

<400> 86

Glu	Ile	Leu	Pro	Gly	Thr	Gly	Ser	Thr	Asn	Tyr	Asn	Glu	Lys	Phe	Lys
1				5					10					15	

Gly

<210> 87

<211> 32

<212> PRT

<213> Secuencia artificial

<220>

<223> Sintético

<400> 87

Lys	Ala	Thr	Phe	Thr	Ala	Asp	Ser	Ser	Ser	Asn	Thr	Ala	Tyr	Met	Gln

1 5
Leu Ser Ser Leu Thr Thr Glu Asp Ser Ala Met Tyr Tyr Cys Leu Arg
20 25 30

<210> 88
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<400> 88

Ser Glu Asp Val
1

<210> 89
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<220>
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<400> 89

Trp Gly Thr Gly Thr Thr Val Thr Val Ser Ser
1 5 10

<210> 90
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<212> PRT
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<400> 90

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

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

<210> 91
<211> 5
<212> PRT
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<220>
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<400> 91

Gly Tyr Trp Ile Glu
1 5

<210> 92
<211> 14
<212> PRT
<213> Secuencia artificial

<220>
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<400> 92

Trp Ile Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile Gly
1 5 10

<210> 93
<211> 17
<212> PRT
<213> Secuencia artificial

<220>
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<400> 93

Glu Met Leu Pro Gly Ser Gly Ser Thr His Tyr Asn Glu Lys Phe Lys
1 5 10 15

Gly

<210> 94
<211> 32
<212> PRT
<213> Secuencia artificial

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<223> Sintético

<400> 94

Lys Ala Thr Phe Thr Ala Asp Thr Ser Ser Asn Thr Ala Tyr Met Gln
 1 5 10 15

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

<210> 95

<211> 4

<212> PRT

<213> Secuencia artificial

<220>

<223> Sintético

<400> 95

Ser Ile Asp Tyr

1

<210> 96

<211> 11

<212> PRT

<213> Secuencia artificial

<220>

<223> Sintético

<400> 96

Trp Gly Gln Gly Thr Thr Leu Thr Val Ser Ser
 1 5 10

<210> 97

<211> 30

<212> PRT

<213> Secuencia artificial

<220>

<223> Sintético

<400> 97

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

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

<210> 98

<211> 5

<212> PRT

<213> Secuencia artificial

<220>

<223> Sintético

<400> 98

Ser Tyr Trp Ile Thr

1

5

<210> 99

<211> 17

<212> PRT

<213> Secuencia artificial

<220>

<223> Sintético

<400> 99

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

Ser

<210> 100

<211> 32

<212> PRT

<213> Secuencia artificial

<220>

<223> Sintético

<400> 100

Lys Ala Thr Leu Thr Val Asp Thr Ser Ser Ser Thr Ala Tyr Met Gln

1 5
Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 101
<211> 11
<212> PRT
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<220>
<223> Sintético

<400> 101

Arg Arg Tyr Tyr Ala Thr Ala Trp Phe Ala Tyr
1 5 10

<210> 102
<211> 30
<212> PRT
<213> Secuencia artificial

<220>
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<400> 102

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

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

<210> 103
<211> 5
<212> PRT
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<220>
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<400> 103

Asp Tyr Tyr Ile Asn
1 5

<210> 104
<211> 14
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<220>
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<400> 104

Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile Ala
1 5 10

<210> 105
<211> 17
<212> PRT
<213> Secuencia artificial

<220>
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<400> 105

Arg Ile Tyr Pro Gly Ser Gly Asn Thr Tyr Tyr Asn Glu Lys Phe Lys
1 5 10 15

Gly

<210> 106
<211> 32
<212> PRT
<213> Secuencia artificial

<220>
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<400> 106

Lys Ala Thr Leu Thr Ala Glu Lys Ser Ser Ser Thr Ala Tyr Met Gln
1 5 10 15

Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Phe Cys Ala Arg
20 25 30

<210> 107
 <211> 11
 <212> PRT
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<220>
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<400> 107

Asn Tyr Tyr Ile Ser Ser Pro Trp Phe Ala Tyr
 1 5 10

<210> 108
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<400> 108

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

Ser Val Lys Ile Ser Cys Gln Ala Phe Tyr Thr Phe Ser Arg
 20 25 30

<210> 109
 <211> 14
 <212> PRT
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<220>
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<400> 109

Arg Val His Phe Ala Ile Arg Asp Thr Asn Tyr Trp Met Gln
 1 5 10

<210> 110
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<400> 110

Ala Ile Tyr Pro Gly Asn Gly Asp Thr Ser Tyr Asn Gln Lys Phe Lys
 1 5 10 15

Gly

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<400> 111

Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser Thr Ala Tyr Met Gln
 1 5 10 15

Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys Ala Ser
 20 25 30

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<400> 112

Gly Ser His Tyr Phe Asp Tyr
 1 5

<210> 113
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<220>
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<400> 113

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

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

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<400> 114

Thr Tyr Pro Ile Glu
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<210> 115

<211> 14

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<400> 115

Trp Met Lys Gln Asn His Gly Lys Ser Leu Glu Trp Ile Gly
 1 5 10

<210> 116

<211> 17

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<220>

<223> Sintético

<400> 116

Asn Phe His Pro Tyr Asn Asp Asp Thr Lys Tyr Asn Glu Lys Phe Lys
 1 5 10 15

Gly

<210> 117

<211> 32

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<220>

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<400> 117

Lys Ala Thr Leu Thr Val Glu Lys Ser Ser Asn Thr Val Tyr Leu Glu
 1 5 10 15

Leu Ser Arg Leu Thr Ser Asp Asp Ser Ala Val Tyr Phe Cys Ala Arg
 20 25 30

<210> 118

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<400> 118

Arg Val Tyr Tyr Ser Tyr Phe Trp Phe Gly Tyr
 1 5 10

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<400> 119

Trp Gly His Gly Thr Leu Val Thr Val Ser Ser
 1 5 10

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<400> 120

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

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

<210> 121
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<220>
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<400> 121

Asn Phe His Pro Tyr Asn Gly Asp Ser Lys Tyr Asn Glu Lys Phe Lys
 1 5 10 15

Gly

<210> 122
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<220>
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<400> 122

Lys Ala Thr Leu Thr Val Glu Lys Ser Ser Ser Thr Val Tyr Leu Glu
 1 5 10 15

Leu Ser Arg Leu Pro Ser Ala Asp Ser Ala Ile Tyr Tyr Cys Ala Arg
 20 25 30

<210> 123
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<400> 123

Arg His Tyr Ala Ala Ser Pro Trp Phe Ala His
 1 5 10

<210> 124
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<220>
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<400> 124

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

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

<210> 125
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<400> 125

Asp Tyr Tyr Met Asn
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<400> 126

Trp Val Lys Gln Ser His Gly Lys Ser Leu Glu Trp Ile Gly
1 5 10

<210> 127

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<400> 127

Asp Val Asn Pro Asn Asn Asp Gly Thr Thr Tyr Asn Gln Lys Phe Lys
1 5 10 15

Gly

<210> 128

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<223> Sintético

<400> 128

Arg Ala Thr Leu Thr Val Asp Lys Ser Ser Asn Thr Ala Ser Met Glu
1 5 10 15

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

<210> 129

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<400> 129

Cys Pro Phe Tyr Tyr Leu Gly Lys Gly Thr His Phe Asp Tyr
1 5 10

<210> 130

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<400> 130

Trp Gly Gln Gly Thr Ser Leu Thr Val Ser Ser
1 5 10

<210> 131

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<220>

<223> Sintético

<400> 131

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

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

<210> 132

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<223> Sintético

<400> 132

Asp Tyr Tyr Met Ile
1 5

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<400> 133

Val Ile Lys Ile Tyr Asn Gly Gly Thr Ser Tyr Asn Gln Lys Phe Lys
1 5 10 15

Gly

<210> 134
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<400> 134

Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr Met Glu
1 5 10 15

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

<210> 135
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<220>
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<400> 135

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

<210> 136
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<220>
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<400> 136

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

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

<210> 137
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<400> 137

Ala Tyr Trp Ile Glu
1 5

<210> 138
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<400> 138

Glu Ile Leu Pro Gly Ser Gly Thr Thr Asn Tyr Asn Glu Asn Phe Lys
1 5 10 15

Asp

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<220>
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<400> 139

Arg Ala Thr Phe Thr Ala Asp Thr Ser Ser Asn Thr Ala Tyr Met Gln
 1 5 10 15

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

<210> 140
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<400> 140

Ser Tyr Tyr Tyr Ala Ser Arg Trp Phe Ala Phe
 1 5 10

<210> 141
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<400> 141

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

Glu Lys Val Thr Met Thr Cys
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<210> 142
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<220>
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<400> 142

Lys Ser Ser Gln Ser Leu Leu Asn Ser Arg Thr Arg Lys Asn Tyr Leu
 1 5 10 15

Ala

<210> 143
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<220>
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<400> 143

Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile Tyr
 1 5 10 15

<210> 144
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<400> 144

Trp Ala Ser Thr Arg Glu Ser
 1 5

<210> 145
 <211> 32
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<220>

<223> Sintético

<400> 145

Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Ser
1 5 10 15

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

<210> 146

<211> 8

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<220>

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<400> 146

Lys Gln Ser Tyr Asn Leu Tyr Thr
1 5

<210> 147

<211> 11

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<223> Sintético

<400> 147

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

<210> 148

<211> 23

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<213> Secuencia artificial

<220>

<223> Sintético

<400> 148

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

Glu Arg Val Thr Met Ser Cys
20

<210> 149

<211> 17

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<223> Sintético

<400> 149

Lys Ser Ser Gln Ser Leu Leu Ile Ser Arg Thr Arg Lys Asn Tyr Leu
1 5 10 15

Ser

<210> 150

<211> 32

<212> PRT

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<223> Sintético

<400> 150

Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr
1 5 10 15

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

<210> 151

<211> 23

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<223> Sintético

<400> 151

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

Glu Lys Val Thr Met Ser Cys
 20

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<220>
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<400> 152

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

Gln Pro Ala Ser Ile Ser Cys
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<210> 153
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<220>
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<400> 153

Lys Ser Ser Gln Ser Leu Leu Asp Ser Asp Gly Lys Thr Tyr Leu Asn
 1 5 10 15

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<400> 154

Trp Leu Leu Gln Arg Pro Gly Gln Ser Pro Lys Arg Leu Ile Tyr
 1 5 10 15

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<400> 155

Leu Val Ser Lys Leu Asp Ser
 1 5

<210> 156
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<400> 156

Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr
 1 5 10 15

Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Tyr Cys
 20 25 30

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<400> 157

Trp Gln Gly Thr His Phe Pro Trp Thr
 1 5

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<400> 158

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

Gln Pro Ala Ser Ile Ser Cys
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Lys Ser Ser Gln Ser Leu Leu Asp Ser Asp Gly Lys Thr Tyr Leu Ser
 1 5 10 15

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Trp Gln Gly Thr His Phe Pro Tyr Thr
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Lys Gln Ser Tyr Asn Ile Pro Thr
 1 5

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<400> 162

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

Glu Gln Ala Ser Ile Ser Cys
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<400> 163

Arg Ser Ser Gln Ser Leu Val Gln Ser Asn Gly Asn Thr Tyr Leu His
 1 5 10 15

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<400> 164

Trp Tyr Leu Gln Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile Tyr
 1 5 10 15

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<400> 165

Lys Val Ser Asn Arg Phe Ser
 1 5

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 <211> 32
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<400> 166

Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
 1 5 10 15

Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Phe Cys
 20 25 30

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<400> 167

Ser Gln Ser Thr His Val Pro Pro Thr
 1 5

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<400> 168

Asp Ile Val Met Thr Gln Ser Gln Lys Phe Met Ser Thr Ser Val Gly
 1 5 10 15

Asp Arg Val Ser Ile Thr Cys
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<400> 169

Lys Ala Ser Gln Asn Val Gly Thr Ala Val Ala
 1 5 10

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<400> 170

Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile Ser
 1 5 10 15

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<400> 171

Ser Ala Ser Asn Arg Tyr Thr
1 5

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Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr
1 5 10 15

Leu Thr Ile Ser Asn Met Gln Ser Glu Asp Val Ala Asp Tyr Phe Cys
20 25 30

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Gln Gln Tyr Asn Ser Tyr Pro Leu Thr
1 5

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<400> 174

Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys Arg
1 5 10

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<400> 175

Asp Ile Val Met Thr Gln Ser Gln Lys Phe Met Ser Thr Ser Val Gly
1 5 10 15

Asp Arg Val Ser Val Thr Cys
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<400> 176

Lys Ala Ser Gln Asn Val Gly Pro Asn Val Ala
1 5 10

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<400> 177

Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Ala Leu Ile Tyr
1 5 10 15

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<400> 178

Ser Ala Ser Tyr Arg Tyr Ser
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Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr
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Gln Gln Tyr Asn Arg Tyr Pro Leu Thr
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Arg Ala Ser Gln Ser Ile Gly Thr Ser Ile His
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<400> 183

Trp Tyr Gln Gln Arg Thr Asn Gly Ser Pro Arg Leu Leu Ile Lys
1 5 10 15

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Tyr Ala Ser Glu Ser Ile Ser
1 5

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

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Gln Gln Ser Asn Ser Trp Pro Tyr Thr
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<400> 187

Asp Ile Val Met Thr Gln Ser Gln Lys Phe Met Ser Thr Ser Val Gly
 1 5 10 15

Asp Arg Val Asn Val Thr Cys
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Lys Ala Ser Gln Asn Val Gly Thr His Val Ala
 1 5 10

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Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr
 1 5 10 15

Leu Thr Ile Ser Asn Val Gln Ser Glu Asp Leu Ala Glu Tyr Phe Cys
 20 25 30

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Gln Gln Tyr Asn Ser Tyr Pro Arg Ala Leu Thr
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Lys Ala Ser Gln Asn Val Gly Pro Thr Val Ala

1 5

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Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr
1 5 10 15

Leu Thr Ile Ser Asn Val His Ser Glu Asp Leu Ala Glu Tyr Phe Cys
20 25 30

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Gln Gln Tyr Asn Ser Tyr Pro Phe Thr
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<400> 194

Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
1 5 10

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

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Trp Tyr Gln Gln Lys Pro Asn Gly Thr Val Lys Leu Leu Val Phe
1 5 10 15

<210> 198
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Tyr Thr Ser Arg Leu His Ser
1 5

<210> 199

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Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Ala Glu His Ser
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Gln Gln Gly Phe Thr Leu Pro Trp Thr
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Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
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Asp Val Leu Met Thr Gln Thr Pro Leu Ser Leu Pro Val Ser Leu Gly
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Arg Ser Ser Gln Ser Leu Ile His Ser Asn Gly Asn Thr Tyr Leu His
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<400> 204

Ser Gln Ser Thr His Val Pro Trp Thr
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 Asp Ile Val Met Thr Gln Ser Gln Lys Phe Met Ser Thr Ser Ile Gly
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Asp Arg Val Ser Val Thr Cys
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Arg Ala Ser Gln Asn Val Gly Pro Asn Leu Ala
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<400> 207

Ser Ala Ser Tyr Arg Phe Ser
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Gln Gln Tyr Asn Arg Tyr Pro Phe Thr
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 <223> donde Xaa en la posición 1 es S o T

<220>
 <221> VARIANTE
 <222> (2)..(2)
 <223> donde Xaa en la posición 1 es S o T

<400> 209

Xaa Xaa Asp Ile Asn
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 <223> donde Xaa en la posición 7 es G o D

<220>
 <221> VARIANTE
 <222> (8)..(8)
 <223> donde Xaa en la posición 8 es S o T o R

<220>
 <221> VARIANTE
 <222> (9)..(9)
 <223> donde Xaa en la posición 9 es I o T

<220>
 <221> VARIANTE
 <222> (13)..(13)
 <223> donde Xaa en la posición 13 es E o D

<220>
 <221> VARIANTE
 <222> (14)..(14)
 <223> donde Xaa en la posición 14 es K o E

<220>
 <221> VARIANTE
 <222> (16)..(16)
 <223> donde Xaa en la posición 16 es T o K

<400> 210

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Asp

<210> 211
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<220>
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<220>
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 <222> (1)..(1)
 <223> donde Xaa en la posición 1 es L o V

<220>
 <221> VARIANTE
 <222> (4)..(4)
 <223> donde Xaa en la posición 4 es T o S

<400> 211

Xaa Glu Asp Xaa Tyr
 1 5

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

<220>
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<220>
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 <222> (8)..(8)
 <223> donde Xaa en la posición 8 es N o I o Q o A

<220>
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 <222> (9)..(9)
 <223> donde Xaa en la posición 9 es S o T

<220>
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 <222> (17)..(17)
 <223> donde Xaa en la posición 17 es A o S

<400> 212

Lys Ser Ser Gln Ser Leu Leu Xaa Xaa Arg Thr Arg Lys Asn Tyr Leu
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Xaa

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 <222> (4)..(4)
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<220>
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 <222> (5)..(5)
 <223> donde Xaa en la posición 5 es S o T

<400> 213

Ser Tyr Gly Xaa Xaa
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<210> 214

<211> 7

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<222> (3)..(3)

<223> donde Xaa en la posición 3 es E o D

<220>

<221> VARIANTE

<222> (5)..(5)

<223> donde Xaa en la posición 5 es M o L

<400> 214

Gly Gly Xaa Ala Xaa Asp Tyr
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<210> 215

<211> 16

<212> PRT

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<221> VARIANTE

<222> (10)..(10)

<223> donde Xaa en la posición 10 es D o E o A

<220>

<221> VARIANTE

<222> (11)..(11)

<223> donde Xaa en la posición 11 es G o A

<220>

<221> VARIANTE

<222> (16)..(16)

<223> donde Xaa en la posición 16 es N o S

<400> 215

Lys Ser Ser Gln Ser Leu Leu Asp Ser Xaa Xaa Lys Thr Tyr Leu Xaa
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<221> VARIANTE

<222> (8)..(8)

<223> donde Xaa en la posición 8 es W o<z Y

<400> 216

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<400> 217

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cctggacagg gacttgagt gattggatgg atttatccta gagatgatag aactaagtac 180

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cgcttcacag gcagtggatc tgggacagat ttcactctca ccatcagcaa tgtgcagtct 240
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<220>
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<400> 247
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gggcaatctc ctaaagcact aatttactcg gcatcctacc ggtacagtgg agtccctgat 180
cgcttcacag gcagtggatc tgggacagat ttcactctca ccatcagcaa tgtgcaactct 240
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gggacaaaagt tggaaataaa acgg 324

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<212> PRT
<213> Secuencia artificial

<220>
<223> Sintético

<400> 248

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

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

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

Gly Trp Ile Tyr Pro Arg Asp Asp Arg Thr Lys Tyr Asn Asp Lys Phe
50 55 60

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

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

Ser Ser Leu Glu Asp Thr Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
100 105 110

Ser Ser

<210> 249
<211> 114
<212> PRT
<213> Secuencia artificial

<220>
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<400> 249

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

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

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

Gly Trp Ile Tyr Pro Arg Asp Asp Arg Thr Lys Tyr Asn Asp Lys Phe
50 55 60

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

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

Ser Ser Leu Glu Asp Thr Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
100 105 110

Ser Ser

<210> 250
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<212> PRT
<213> Secuencia artificial

<220>
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<400> 250

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

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

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

Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
65 70 75 80

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

Ser Tyr Asn Leu Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105 110

Arg

<210> 251
<211> 116
<212> PRT
<213> Secuencia artificial

<220>
<223> Sintético

<400> 251

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

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

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

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

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

Leu Gln Ile Ser Ser Leu Lys Ala Glu Asp Thr Ala Val Tyr Phe Cys

Ala Arg Gly Gly Glu Ala Met Asp Tyr Trp Gly Gln Gly Thr Leu Val
100 105 110

Thr Val Ser Ser
115

<210> 252
<211> 116
<212> PRT
<213> Secuencia artificial

<220>
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<400> 252

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

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

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

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

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

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

Ala Arg Gly Gly Glu Ala Met Asp Tyr Trp Gly Gln Gly Thr Leu Val
100 105 110

Thr Val Ser Ser
115

<210> 253
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<212> PRT
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<220>
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<400> 253

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

Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Asp Ser
20 25 30

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

Pro Lys Arg Leu Ile Tyr Leu Val Ser Lys Leu Asp Ser Gly Val Pro
50 55 60

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

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

Thr His Phe Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105 110

Arg

<210> 254
<211> 113
<212> PRT
<213> Secuencia artificial

<220>
<223> Sintético

<400> 254

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

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

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

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

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

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

Leu Arg Ser Glu Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser
100 105 110

Ser

<210> 255

<211> 113

<212> PRT

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<220>

<223> Sintético

<400> 255

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

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

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

Gly Glu Ile Leu Pro Gly Thr Gly Ser Thr Asn Tyr Asn Glu Lys Phe
50 55 60

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

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

Leu Arg Ser Glu Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser
100 105 110

Ser

<210> 256

<211> 113

<212> PRT

<213> Secuencia artificial

<220>

<223> Sintético

<400> 256

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

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

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

Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
Página 65

65 70 75 80

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

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

Arg

<210> 257
<211> 17
<212> PRT
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<220>
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<400> 257

Lys Ser Ser Gln Ser Leu Leu Gln Ser Arg Thr Arg Lys Asn Tyr Leu
1 5 10 15

Ala

<210> 258
<211> 17
<212> PRT
<213> Secuencia artificial

<220>
<223> Sintético

<400> 258

Lys Ser Ser Gln Ser Leu Leu Ala Ser Arg Thr Arg Lys Asn Tyr Leu
1 5 10 15

Ala

<210> 259
<211> 17
<212> PRT
<213> Secuencia artificial

<220>
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<400> 259

Lys Ser Ser Gln Ser Leu Leu Asn Thr Arg Thr Arg Lys Asn Tyr Leu
1 5 10 15

Ala

<210> 260
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<220>
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<223> donde Xaa en la posición 9 es S o T

<400> 260

Lys Ser Ser Gln Ser Leu Leu Xaa Xaa Arg Thr Arg Lys Asn Tyr Leu
1 5 10 15

Ala

<210> 261
<211> 16
<212> PRT
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<220>

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<400> 261

Lys Ser Ser Gln Ser Leu Leu Asp Ser Glu Gly Lys Thr Tyr Leu Asn
 1 5 10 15

<210> 262

<211> 16

<212> PRT

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<400> 262

Lys Ser Ser Gln Ser Leu Leu Asp Ser Ala Gly Lys Thr Tyr Leu Asn
 1 5 10 15

<210> 263

<211> 16

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<400> 263

Lys Ser Ser Gln Ser Leu Leu Asp Ser Asp Ala Lys Thr Tyr Leu Asn
 1 5 10 15

<210> 264

<211> 30

<212> PRT

<213> Secuencia artificial

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<400> 264

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

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

<210> 265

<211> 14

<212> PRT

<213> Secuencia artificial

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<400> 265

Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile Gly
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<210> 266

<211> 32

<212> PRT

<213> Secuencia artificial

<220>

<223> Sintético

<400> 266

Lys Ala Thr Leu Thr Val Asp Thr Ser Ser Asn Thr Ala Tyr Met Glu
 1 5 10 15

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

<210> 267

<211> 32

<212> PRT

<213> Secuencia artificial

<220>

<223> Sintético

<400> 267

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

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

<210> 268
 <211> 11
 <212> PRT
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<220>
 <223> Sintético

<400> 268

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 1 5 10

<210> 269
 <211> 30
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<220>
 <223> Sintético

<400> 269

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

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

<210> 270
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 <212> PRT
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<220>
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<400> 270

Arg Phe Val Phe Ser Leu Asp Thr Ser Val Arg Thr Pro Tyr Leu Gln
 1 5 10 15

Ile Ser Ser Leu Lys Ala Glu Asp Thr Ala Val Tyr Phe Cys Ala Arg
 20 25 30

<210> 271
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 <212> PRT
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<220>
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<400> 271

Arg Phe Val Phe Ser Leu Asp Thr Ser Val Arg Thr Pro Tyr Leu Gln
 1 5 10 15

Ile Ser Ser Leu Lys Ala Glu Asp Thr Ala Thr Tyr Phe Cys Ala Arg
 20 25 30

<210> 272
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<400> 272

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 1 5 10

<210> 273
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<220>
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<400> 273

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

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

<210> 274

<211> 14
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<220>
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<400> 274

Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile Gly
 1 5 10

<210> 275
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 <212> PRT
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<220>
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<400> 275

Glu Ile Leu Pro Gly Thr Gly Ser Thr Asn Tyr Ala Gln Lys Phe Gln
 1 5 10 15

Gly

<210> 276
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 <212> PRT
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<220>
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<400> 276

Arg Ala Thr Phe Thr Ala Asp Ser Ser Thr Ser Thr Ala Tyr Met Glu
 1 5 10 15

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

<210> 277
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<220>
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<400> 277

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 1 5 10

<210> 278
 <211> 113
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<220>
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<400> 278

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

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

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

Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
 50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
 65 70 75 80

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

Ser Tyr Asn Leu Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105 110

Arg

<210> 279
 <211> 113
 <212> PRT
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<220>
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<400> 279

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

Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Asp Ser
 20 25 30

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

Pro Lys Arg Leu Ile Tyr Leu Val Ser Lys Leu Asp Ser Gly Val Pro
 50 55 60

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

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

Thr His Phe Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105 110

Arg

<210> 280
 <211> 113
 <212> PRT
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<220>
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<400> 280

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

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

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

Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
 50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
 65 70 75 80

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

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

Arg

<210> 281
 <211> 23
 <212> PRT
 <213> Secuencia artificial

<220>
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<400> 281

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

Glu Arg Ala Thr Ile Asn Cys
 20

<210> 282
 <211> 15
 <212> PRT
 <213> Secuencia artificial

<220>
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<400> 282

Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr
 1 5 10 15

<210> 283
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<220>
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<400> 283

Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
 1 5 10 15

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

<210> 284
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<220>
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<400> 284

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

<210> 285
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<220>
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<400> 285

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

Gln Pro Ala Ser Ile Ser Cys
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<210> 286
 <211> 32
 <212> PRT
 <213> Secuencia artificial

<220>
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<400> 286

Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
 1 5 10 15

Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys
 20 25 30

<210> 287
 <211> 11
 <212> PRT
 <213> Secuencia artificial

<220>
 <223> Sintético

<400> 287

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

<210> 288
 <211> 342
 <212> ADN
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<220>

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 aacgacaagt tcaaggacaa agcgaccctc accgtcgaca ccagcagcaa cactgcctac 240
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<220>

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 cccggacagg ggctggaatg gatcggttgg atctaccctc gggacgaccg gactaagtac 180
 aacgacaagt tcaaggacag agcgaccctc accgtcgaca ccagcagcaa cactgcctac 240
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<212> ADN

<213> Secuencia artificial

<220>

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<220>
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 tggatatcagc agaagcccgg acagcctcca aagctcttga tctactgggc ctccactcgg 180
 gagtccggcg tgccggaccg gttcagcgga tcaggctccg gtactgactt caccctcacc 240
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 ccgacgtttg ggcagggcac caaagtggaa atcaagcgc 339

<210> 296
 <211> 339
 <212> ADN
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<220>
 <223> Sintético

<400> 296
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 atctcctgca agagctcgca gtccctcctc gactccgacg gaaaaacctc cctgaactgg 120
 cttttgcaga ggccagggca gagcccgaag cggctgatct acctcgtgtc caagctggac 180
 tccggagtgc cggatcgctt ctcgggatca ggctcgggta ccgatttcac gctgaagatc 240
 tccagagtgg aagccgagga cgtgggcgtc tactactgtt ggcagggcac tcactttccg 300
 tggaccttcg gtcaagggac caaggctcag attaagagg 339

<210> 297
 <211> 339
 <212> ADN
 <213> Secuencia artificial

<220>
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<400> 297
 gacgtgctga tgacccaaac ccccttttcc ctgtccgtga ctcctggaca acccgcgta 60
 atctcctgca agagctcgca gtccctcctc gactccgacg caaaaacctc cctgaactgg 120
 cttttgcaga ggccagggca gagcccgaag cggctgatct acctcgtgtc caagctggac 180

tccggagtg cggatcgctt ctcgggatca ggctcgggta ccgatttcac gctgaagatc 240
 tccagagtgg aagccgagga cgtgggcgtc tactactgtt ggcagggcac tcactttccg 300
 tggaccttcg gtcaagggac caaggtcgag attaagagg 339

<210> 298
 <211> 339
 <212> ADN
 <213> Secuencia artificial

<220>
 <223> Sintético

<400> 298
 gatatcgtca tgaccaatc ccccgattcc cttgctgtct cactgggaga aagagccacc 60
 atcaactgca agagctcgca gtccctgctg aatagcagga ctcgcaagaa ctacctggcc 120
 tggatcagc agaagcccgg acagcctcca aagctcttga tctactgggc ctccactcgg 180
 gagtccggcg tgccggaccg gttcagcgga tcaggtcccg gtactgactt caccctcacc 240
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<210> 299
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 <212> ADN
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<220>
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<400> 299
 gatattgtca tgaccagtc ccccgattcc cttgctgtct ccctgggaga acgcgcgact 60
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 tggtagcagc agaagcctgg gcaaccgccg aagctcttga tctactgggc ctcgactaga 180
 gagagcggag tgccagaccg cttctccggt tccggatcag gaaccgactt taccctgacc 240
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<210> 300
 <211> 125
 <212> PRT
 <213> Secuencia artificial

<220>
 <223> Sintético

<400> 300

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

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

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

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

Lys Gly Arg Ala Thr Ile Ser Arg Asp Asn Gly Gln Ser Thr Leu Arg
 65 70 75 80

Leu Gln Leu Asn Asn Leu Arg Ala Glu Asp Thr Gly Thr Tyr Tyr Cys
 85 90 95

Thr Lys Cys Ala Tyr Ser Ser Gly Cys Asp Tyr Glu Gly Gly Tyr Ile
 100 105 110

Asp Ala Trp Gly His Gly Thr Glu Val Ile Val Ser Ser
 115 120 125

<210> 301
 <211> 118
 <212> PRT
 <213> Secuencia artificial

<220>
 <223> Sintético

<400> 301

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

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

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

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

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

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

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

Glu Val Ile Val Ser Ser
115

<210> 302
<211> 128
<212> PRT
<213> Secuencia artificial

<220>
<223> Sintético

<400> 302

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

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

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

Ala Ala Ile Asn Arg Phe Gly Asn Ser Thr Gly His Gly Ala Ala Val
50 55 60

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

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

Ala Lys Gly Val Tyr Gly Tyr Cys Gly Ser Tyr Ser Cys Cys Gly Val
100 105 110

Asp Thr Ile Asp Ala Trp Gly His Gly Thr Glu Val Ile Val Ser Ser
115 120 125

<210> 303
<211> 107
<212> PRT
<213> Secuencia artificial

<220>
<223> Sintético

<400> 303

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

Lys Ile Thr Cys Ser Gly Gly Gly Ser Tyr Ala Gly Ser Tyr Tyr Tyr
20 25 30

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

Tyr Asp Asn Asp Lys Arg Pro Ser Asp Ile Pro Ser Arg Phe Ser Gly
50 55 60

Ser Leu Ser Gly Ser Thr Asn Thr Leu Thr Ile Thr Gly Val Arg Ala
65 70 75 80

Asp Asp Glu Ala Val Tyr Phe Cys Gly Ser Ala Asp Asn Ser Gly Ala
85 90 95

Ala Phe Gly Ala Gly Thr Thr Leu Thr Val Leu
100 105

<210> 304
<211> 108
<212> PRT
<213> Secuencia artificial

<220>
<223> Sintético

<400> 304

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

Lys Ile Thr Cys Ser Gly Gly Tyr Ser Gly Tyr Ala Gly Ser Tyr Tyr
20 25 30

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

Ile Tyr Tyr Asn Asn Lys Arg Pro Ser Asp Ile Pro Ser Arg Phe Ser
50 55 60

Gly Ser Leu Ser Gly Ser Thr Asn Thr Leu Thr Ile Thr Gly Val Arg
65 70 75 80

Ala Asp Asp Glu Ala Val Tyr Phe Cys Gly Ser Ala Asp Asn Ser Gly
85 90 95

Ala Ala Phe Gly Ala Gly Thr Thr Leu Thr Val Leu
100 105

<210> 305
<211> 107
<212> PRT
<213> Secuencia artificial

<220>
<223> Sintético

<400> 305

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

Lys Ile Thr Cys Ser Gly Gly Gly Ser Tyr Ala Gly Ser Tyr Tyr Tyr
20 25 30

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

Tyr Tyr Asn Asn Lys Arg Pro Ser Asp Ile Pro Ser Arg Phe Ser Gly
50 55 60

Ser Leu Ser Gly Ser Thr Asn Thr Leu Thr Ile Thr Gly Val Arg Ala
65 70 75 80

Asp Asp Glu Ala Val Tyr Phe Cys Gly Ser Ala Asp Asn Ser Gly Ala
85 90 95

Ala Phe Gly Ala Gly Thr Thr Leu Thr Val Leu
100 105

<210> 306
<211> 126
<212> PRT
<213> Secuencia artificial

<220>
<223> Sintético

<400> 306

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

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

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

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

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

Leu Gln Leu Asn Asn Leu Arg Ala Glu Asp Thr Gly Thr Tyr Tyr Cys
85 90 95

Ala Lys Thr Thr Gly Ser Gly Cys Ser Ser Gly Tyr Arg Ala Glu Tyr
100 105 110

Ile Asp Ala Trp Gly His Gly Thr Glu Val Ile Val Ser Ser
115 120 125

<210> 307
<211> 107
<212> PRT
<213> Secuencia artificial

<220>
<223> Sintético

<400> 307

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

Lys Ile Thr Cys Ser Gly Gly Gly Ser Tyr Ala Gly Ser Tyr Tyr Tyr
20 25 30

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

Tyr Tyr Asn Asn Lys Arg Pro Ser Asp Ile Pro Ser Arg Phe Ser Gly
50 55 60

Ser Leu Ser Gly Ser Thr Asn Thr Leu Thr Ile Thr Gly Val Arg Ala
65 70 75 80

Asp Asp Glu Ala Val Tyr Phe Cys Gly Ser Ala Asp Asn Ser Gly Ala
85 90 95

Ala Phe Gly Ala Gly Thr Thr Leu Thr Val Leu
100 105

<210> 308
<211> 126
<212> PRT
<213> Secuencia artificial

<220>
<223> Sintético

<400> 308

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

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

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

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

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

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

Cys Ala Arg Asp Ala Gly Gly Ser Ala Tyr Trp Phe Asp Ala Gly Gln
100 105 110

Ile Asp Ala Trp Gly His Gly Thr Glu Val Ile Val Ser Ser
115 120 125

<210> 309
 <211> 107
 <212> PRT
 <213> Secuencia artificial

<220>
 <223> Sintético

<400> 309

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

Lys Ile Thr Cys Ser Gly Gly Gly Ser Tyr Ala Gly Ser Tyr Tyr Tyr
 20 25 30

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

Tyr Tyr Asn Asn Lys Arg Pro Ser Asp Ile Pro Ser Arg Phe Ser Gly
 50 55 60

Ser Leu Ser Gly Ser Thr Asn Thr Leu Thr Ile Thr Gly Val Arg Ala
 65 70 75 80

Asp Asp Glu Ala Val Tyr Phe Cys Gly Ser Ala Asp Asn Ser Gly Ala
 85 90 95

Ala Phe Gly Ala Gly Thr Thr Leu Thr Val Leu
 100 105

<210> 310
 <211> 327
 <212> PRT
 <213> Secuencia artificial

<220>
 <223> Sintético

<400> 310

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

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

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

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

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

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

Arg Val Glu Ser Lys Tyr Gly Pro Pro Cys Pro Ser Cys Pro Ala Pro
 100 105 110

Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
 115 120 125

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

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

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

Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
 180 185 190

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

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

210 215 220

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

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

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

Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
275 280 285

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

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

Leu Ser Leu Ser Leu Gly Lys
325

<210> 311
<211> 327
<212> PRT
<213> Secuencia artificial

<220>
<223> Sintético

<400> 311

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

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

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

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

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

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

Arg Val Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys Pro Ala Pro
100 105 110

Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
115 120 125

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

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

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

Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
180 185 190

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

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

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

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

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

Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
275 280 285

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

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

Leu Ser Leu Ser Leu Gly Lys
325

<210> 312
<211> 327
<212> PRT
<213> Secuencia artificial

<220>
<223> Sintético

<400> 312

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

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

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

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

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

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

Arg Val Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys Pro Ala Pro
100 105 110

Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
115 120 125

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

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

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

Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
180 185 190

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

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

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

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

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

Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
275 280 285

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

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

Leu Ser Leu Ser Leu Gly Lys
 325

<210> 313
 <211> 106
 <212> PRT
 <213> Secuencia artificial

<220>
 <223> Sintético

<400> 313

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

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

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

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

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

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

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