

LISTADO DE SECUENCIAS

<110> Board of Regents, The University of Texas System

<120> DISMINUCIÓN DE HOMOCISTEÍNA MEDIADA POR ENZIMAS HUMANAS PARA EL
TRATAMIENTO
DE PACIENTES CON HIPERHOMOCISTEINEMIA Y HOMOCISTINURIA

<130> UTFB.P1138WO

<140> no asignado aún

<141> 2018-05-11

<150> US 62/505,493

<151> 2017-05-12

<160> 66

<170> PatentIn version 3.5

<210> 1

<211> 405

<212> PRT

<213> Homo sapiens

<400> 1

Met	Gln	Glu	Lys	Asp	Ala	Ser	Ser	Gln	Gly	Phe	Leu	Pro	His	Phe	Gln
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His	Phe	Ala	Thr	Gln	Ala	Ile	His	Val	Gly	Gln	Asp	Pro	Glu	Gln	Trp
			20					25					30		

Thr	Ser	Arg	Ala	Val	Val	Pro	Pro	Ile	Ser	Leu	Ser	Thr	Thr	Phe	Lys
		35					40					45			

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

Ile	Thr	His	Leu	Leu	Lys	Ala	Gly	Asp	Gln	Ile	Ile	Cys	Met	Asp	Asp
			100					105					110		

Val Tyr Gly Gly Thr Asn Arg Tyr Phe Arg Gln Val Ala Ser Glu Phe
115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
145 150 155 160

Asn Pro Thr Gln Lys Val Ile Asp Ile Glu Gly Cys Ala His Ile Val
165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Ser Met Tyr
195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
210 215 220

Val Ser Val Asn Cys Glu Ser Leu His Asn Arg Leu Arg Phe Leu Gln
225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Ile Asp Cys Tyr Leu Cys Asn
245 250 255

Arg Gly Leu Lys Thr Leu His Val Arg Met Glu Lys His Phe Lys Asn
260 265 270

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

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Val Lys
290 295 300

Arg Gln Cys Thr Gly Cys Thr Gly Met Val Thr Phe Tyr Ile Lys Gly
305 310 315 320

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

325

330

335

Leu Ala Glu Ser Leu Gly Gly Phe Glu Ser Leu Ala Glu Leu Pro Ala
 340 345 350

Ile Met Thr His Ala Ser Val Leu Lys Asn Asp Arg Asp Val Leu Gly
 355 360 365

Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Glu
 370 375 380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
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Ser Gly Ser His Ser
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<210> 2

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<223> Polipéptido sintético

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His Phe Ala Thr Gln Ala Ile His Val Gly Gln Asp Pro Glu Gln Trp
 20 25 30

Thr Ser Arg Ala Val Val Pro Pro Ile Ser Leu Ser Thr Thr Phe Lys
 35 40 45

Gln Gly Ala Pro Gly Gln His Ser Gly Phe Asn Tyr Ser Arg Ser Gly
 50 55 60

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
 65 70 75 80

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

85

90

95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
 100 105 110

Val Tyr Gly Gly Thr Asn Leu Tyr Phe Arg Gln Val Ala Ser Glu Phe
 115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
 130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
 145 150 155 160

Asn Pro Thr Gln Lys Val Ile Asp Ile Glu Gly Cys Ala His Ile Val
 165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
 180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Ser Met Tyr
 195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
 210 215 220

Val Ser Val Asn Cys Glu Ser Leu His Asn Arg Leu Arg Phe Leu Gln
 225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Ile Asp Cys Tyr Leu Cys Asn
 245 250 255

Arg Gly Leu Lys Thr Leu His Val Arg Met Glu Lys His Phe Lys Asn
 260 265 270

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

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Val Lys
 290 295 300

Arg Gln Cys Thr Gly Cys Thr Gly Met Val Thr Phe Tyr Ile Lys Gly
305 310 315 320

Thr Leu Gln His Ala Glu Ile Phe Leu Lys Asn Leu Lys Leu Phe Thr
325 330 335

Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Ala Glu Leu Pro Ala
340 345 350

Ile Met Thr His Ala Ser Val Leu Lys Asn Asp Arg Asp Val Leu Gly
355 360 365

Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Glu
370 375 380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
385 390 395 400

Ser Gly Ser His Ser
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His Phe Ala Thr Gln Ala Ile His Val Gly Gln Asp Pro Glu Gln Trp
20 25 30

Thr Ser Arg Ala Val Val Pro Pro Ile Ser Leu Ser Thr Thr Phe Lys
35 40 45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Met Ala Ala Thr Val Thr
85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
100 105 110

Val Tyr Gly Gly Thr Asn Leu Tyr Phe Arg Gln Val Ala Ser Glu Phe
115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
145 150 155 160

Asn Pro Thr Gln Lys Val Ile Asp Ile Glu Gly Cys Ala His Ile Val
165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Ser Met Tyr
195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
210 215 220

Val Ser Val Asn Cys Glu Ser Leu His Asn Arg Leu Arg Phe Leu Gln
225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Ile Asp Cys Tyr Leu Cys Asn
245 250 255

Arg Gly Leu Lys Thr Leu His Val Arg Met Glu Arg His Phe Lys Asn
260 265 270

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

275

280

285

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Val Lys
 290 295 300

Arg Gln Cys Thr Gly Cys Gly Gly Met Val Thr Phe Tyr Ile Lys Gly
 305 310 315 320

Thr Leu Gln His Ala Glu Ile Phe Leu Lys Asn Leu Lys Leu Phe Thr
 325 330 335

Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Ala Glu Leu Pro Ala
 340 345 350

Ser Met Thr His Ala Ser Val Leu Lys Asn Asp Arg Asp Val Leu Gly
 355 360 365

Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Glu
 370 375 380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
 385 390 395 400

Ser Gly Ser His Ser
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Met Gln Glu Lys Asp Ala Ser Ser Gln Gly Phe Leu Pro His Phe Gln
 1 5 10 15

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Asp Pro Glu Gln Trp
 20 25 30

Thr Ser Arg Ala Val Val Pro Pro Ile Ser Leu Ser Thr Thr Phe Lys

35

40

45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
 65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Met Ala Ala Thr Val Thr
 85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
 100 105 110

Val Tyr Gly Gly Thr Asn Leu Tyr Phe Arg Gln Val Ala Ser Glu Phe
 115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
 130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
 145 150 155 160

Asn Pro Thr Gln Lys Val Ile Asp Ile Glu Gly Cys Ala His Ile Val
 165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
 180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Ser Met Tyr
 195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
 210 215 220

Val Ser Val Asn Cys Glu Ser Leu His Asn Arg Leu Arg Phe Leu Gln
 225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Ile Asp Cys Tyr Leu Cys Asn
 245 250 255

Arg Gly Leu Lys Thr Leu His Val Arg Met Glu Arg His Phe Lys Asn
260 265 270

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

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Val Lys
290 295 300

Arg Gln Cys Thr Gly Cys Gly Gly Met Val Thr Phe Tyr Ile Lys Gly
305 310 315 320

Thr Leu Gln His Ala Glu Ile Phe Leu Lys Asn Leu Lys Leu Phe Thr
325 330 335

Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Ala Glu Leu Pro Ala
340 345 350

Ser Met Thr His Ala Ser Val Leu Lys Asn Asp Arg Asp Val Leu Gly
355 360 365

Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Glu
370 375 380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
385 390 395 400

Ser Gly Ser His Ser
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His Phe Ala Thr Gln Ala Ile His Val Gly Gln Asp Pro Glu Gln Trp
20 25 30

Thr Ser Arg Ala Val Val Pro Pro Ile Ser Leu Ser Thr Thr Phe Lys
35 40 45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Met Ala Ala Thr Val Thr
85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
100 105 110

Val Tyr Gly Gly Thr Asn Ala Tyr Phe Arg Gln Val Ala Ser Glu Phe
115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
145 150 155 160

Asn Pro Thr Gln Lys Val Ile Asp Ile Glu Gly Cys Ala His Ile Val
165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Ser Met Tyr
195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
210 215 220

Val Ser Val Asn Cys Glu Ser Leu His Asn Arg Leu Arg Phe Leu Gln

225		230		235		240
Asn Ser Leu Gly	Ala Val Pro Ser Pro	Ile Asp Cys Tyr	Leu Cys Asn			
	245	250	255			
Arg Gly Leu Lys	Thr Leu His Val	Arg Met Glu Arg	His Phe Lys Asn			
	260	265	270			
Gly Met Ala Val	Ala Gln Phe Leu	Glu Ser Asn Pro	Trp Val Glu Lys			
	275	280	285			
Val Ile Tyr Pro	Gly Leu Pro Ser	His Pro Gln His	Glu Leu Val Lys			
	290	295	300			
Arg Gln Cys Thr	Gly Cys Gly Gly	Met Val Thr Phe	Tyr Ile Lys Gly			
305	310	315	320			
Thr Leu Gln His	Ala Glu Ile Phe	Leu Lys Asn Leu	Lys Leu Phe Thr			
	325	330	335			
Leu Ala Val Ser	Leu Gly Gly Phe	Glu Ser Leu Ala	Glu Leu Pro Ala			
	340	345	350			
Ser Met Thr His	Ala Ser Val Leu	Lys Asn Asp Arg	Asp Val Leu Gly			
	355	360	365			
Ile Ser Asp Thr	Leu Ile Arg Leu	Ser Val Gly Leu	Glu Asp Glu Glu			
	370	375	380			
Asp Leu Leu Glu	Asp Leu Asp Gln	Ala Leu Lys Ala	Ala His Pro Pro			
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Ser Gly Ser His	Ser					
	405					

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Met Gln Glu Lys Asp Ala Ser Ser Gln Gly Phe Leu Pro His Phe Gln
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His Phe Ala Thr Gln Ala Ile His Val Gly Gln Asp Pro Glu Gln Trp
20 25 30

Thr Ser Arg Ala Val Val Pro Pro Ile Ser Leu Ser Thr Thr Phe Lys
35 40 45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Met Ala Ala Thr Val Thr
85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
100 105 110

Val Tyr Gly Gly Thr Asn Ala Tyr Phe Arg Gln Val Ala Ser Glu Phe
115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
145 150 155 160

Asn Pro Thr Gln Lys Val Ile Asp Ile Glu Gly Cys Ala His Ile Val
165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Ser Met Tyr
195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
210 215 220

Val Ser Val Asn Cys Glu Ser Leu His Asn Arg Leu Arg Phe Leu Gln
225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Ile Asp Cys Tyr Leu Cys Asn
245 250 255

Arg Gly Leu Lys Thr Leu His Val Arg Met Glu Arg His Phe Lys Asn
260 265 270

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

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Val Lys
290 295 300

Arg Gln Cys Thr Gly Cys Gly Gly Met Val Thr Phe Tyr Ile Lys Gly
305 310 315 320

Thr Leu Gln His Ala Glu Ile Phe Leu Lys Asn Leu Lys Leu Phe Thr
325 330 335

Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Ala Glu Leu Pro Ala
340 345 350

Ser Met Thr His Ala Ser Val Leu Lys Asn Asp Arg Asp Val Leu Gly
355 360 365

Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Glu
370 375 380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
385 390 395 400

Ser Gly Ser His Ser
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<211> 405
<212> PRT
<213> Pongo abelii

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1 5 10 15

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Glu Pro Glu Gln Trp
20 25 30

Thr Ser Arg Ala Val Val Pro Pro Ile Ser Pro Ser Val Thr Phe Lys
35 40 45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Leu Ala Ala Thr Val Thr
85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
100 105 110

Val Tyr Ala Gly Thr Asn Arg Tyr Phe Arg Gln Val Ala Ser Glu Phe
115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
145 150 155 160

Asn Pro Thr Gln Lys Met Thr Asp Ile Glu Ala Cys Ala His Ile Val
165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Cys Met Cys
195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
210 215 220

Val Ser Val Asn Cys Glu Ser Leu Tyr Asn Arg Leu Arg Phe Leu Gln
225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Ile Asp Cys Tyr Leu Cys Asn
245 250 255

Arg Gly Leu Lys Thr Leu Gln Val Arg Met Glu Lys His Phe Lys Asn
260 265 270

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

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Val Lys
290 295 300

Arg Gln Cys Thr Gly Cys Thr Gly Met Val Thr Phe Tyr Ile Lys Gly
305 310 315 320

Thr Leu Gln His Ala Glu Ile Phe Leu Lys Asn Leu Lys Leu Phe Thr
325 330 335

Leu Ala Glu Ser Leu Gly Gly Phe Glu Ser Leu Val Glu Leu Pro Ala
340 345 350

Val Met Thr His Ala Ser Val Leu Lys Lys Asp Arg Asp Val Leu Gly
355 360 365

Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Glu
370 375 380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
385 390 395 400

Ser Gly Ser His Ser
405

<210> 8
<211> 405
<212> PRT
<213> Macaca fascicularis

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Met Gln Glu Lys Asp Ala Ser Ser Gln Gly Phe Leu Pro His Phe Gln
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20 25 30

Thr Ser Arg Ala Val Val Pro Leu Ile Ser Leu Ser Thr Thr Phe Lys
35 40 45

Gln Ala Ala Pro Gly Gln His Ser Gly Phe Glu Tyr Ser Arg Ser Gly
50 55 60

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Leu Ala Ala Thr Val Thr
85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
100 105 110

Val Tyr Gly Gly Thr Asn Arg Tyr Phe Arg Gln Val Ala Ser Glu Phe
115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
145 150 155 160

Asn Pro Val Leu Lys Met Ile Asp Ile Glu Ala Cys Ala His Ile Val
165 170 175

His Lys Arg Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser

180

185

190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Cys Met Cys
 195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
 210 215 220

Val Ser Val Asn Cys Glu Arg Leu His Asn Arg Leu Arg Phe Leu Gln
 225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Leu Asp Cys Tyr Leu Cys Asn
 245 250 255

Arg Gly Leu Lys Thr Leu His Val Arg Met Glu Lys His Phe Lys Asn
 260 265 270

Gly Met Ala Val Ala Gln Phe Leu Glu Ser Asn Pro Gly Val Glu Lys
 275 280 285

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Ala Lys
 290 295 300

Arg Gln Cys Thr Gly Cys Thr Gly Met Ile Thr Phe Tyr Ile Lys Gly
 305 310 315 320

Thr Leu Gln His Ala Glu Ile Phe Leu Lys Asn Leu Lys Leu Phe Thr
 325 330 335

Leu Ala Glu Ser Leu Gly Gly Phe Glu Ser Leu Val Glu Leu Pro Ala
 340 345 350

Ile Met Thr His Ala Ser Val Pro Lys Asn Asp Arg Asp Val Leu Gly
 355 360 365

Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Lys
 370 375 380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
 385 390 395 400

Ser Gly Ser His Asn
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<210> 9
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<212> PRT
<213> Pan troglodytes

<400> 9

Met Gln Glu Lys Asp Ala Ser Ser Gln Gly Phe Leu Pro His Phe Gln
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His Phe Ala Thr Gln Ala Ile His Val Gly Gln Asp Pro Glu Gln Trp
20 25 30

Thr Ser Arg Ala Leu Val Pro Pro Ile Ser Leu Ser Thr Thr Phe Lys
35 40 45

Gln Gly Ala Pro Gly Gln His Ser Gly Phe Glu Tyr Ser Arg Ser Gly
50 55 60

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Leu Ala Ala Thr Val Thr
85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
100 105 110

Val Tyr Gly Gly Thr Asn Arg Tyr Phe Arg Gln Val Ala Ser Glu Phe
115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
145 150 155 160

Asn Pro Thr Gln Lys Val Ile Asp Ile Glu Ala Cys Ala His Ile Val
165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Cys Met Tyr
195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
210 215 220

Val Ser Val Asn Cys Glu Ser Leu His Asn Arg Leu Arg Phe Leu Gln
225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Ile Asp Cys Tyr Leu Cys Asn
245 250 255

Arg Gly Leu Lys Thr Leu His Val Arg Met Glu Lys His Phe Lys Asn
260 265 270

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

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Val Lys
290 295 300

Arg Gln Cys Thr Gly Cys Thr Gly Met Val Thr Phe Tyr Ile Lys Gly
305 310 315 320

Thr Leu Gln His Ala Glu Ile Phe Leu Lys Asn Leu Lys Leu Phe Thr
325 330 335

Leu Ala Glu Ser Leu Gly Gly Phe Glu Ser Leu Ala Glu Leu Pro Ala
340 345 350

Ile Met Thr His Ala Ser Val Leu Lys Asn Asp Arg Asp Val Leu Gly
355 360 365

Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Glu
370 375 380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
385 390 395 400

Ser Gly Ser His Ser
405

<210> 10
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Met Gln Glu Lys Asp Ala Ser Ser Gln Gly Phe Leu Pro His Phe Gln
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His Phe Ala Thr Gln Ala Ile His Val Gly Gln Asp Pro Glu Gln Trp
20 25 30

Thr Ser Lys Ala Leu Val Pro Pro Ile Ser Leu Ser Thr Thr Phe Lys
35 40 45

Gln Gly Ala Pro Gly Gln His Ser Gly Phe Glu Tyr Ser Arg Ser Gly
50 55 60

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Leu Ala Ala Thr Val Thr
85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
100 105 110

Val Tyr Gly Gly Thr Asn Arg Tyr Phe Arg Gln Val Ala Ser Glu Phe
115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
145 150 155 160

Asn Pro Thr Gln Lys Val Ile Asp Ile Glu Ala Cys Ala His Ile Val
165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Cys Met Tyr
195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Ile Gly Leu
210 215 220

Val Ser Val Asn Cys Glu Ser Leu His Asn Arg Leu Arg Phe Leu Gln
225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Ile Asp Cys Tyr Leu Cys Asn
245 250 255

Arg Gly Leu Lys Thr Leu His Val Arg Met Glu Lys His Phe Lys Asn
260 265 270

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

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Val Lys
290 295 300

Arg Gln Cys Thr Gly Cys Thr Gly Met Val Thr Phe Tyr Ile Lys Gly
305 310 315 320

Thr Leu Gln His Ala Glu Ile Phe Leu Lys Asn Leu Lys Leu Phe Thr
325 330 335

Leu Ala Glu Ser Leu Gly Gly Phe Glu Ser Leu Ala Glu Leu Pro Ala
340 345 350

Ile Met Thr His Ala Ser Val Leu Lys Asn Asp Arg Asp Val Leu Gly
355 360 365

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

370

375

380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
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Ser Gly Ser His Ser
 405

<210> 11

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<213> Secuencia artificial

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<223> Polipéptido sintético

<400> 11

Met Gln Glu Lys Glu Ala Ser Ser Gln Gly Phe Leu Pro His Phe Gln
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His Phe Ala Thr Gln Ala Ile His Val Gly Gln Glu Pro Glu Gln Trp
 20 25 30

Thr Ser Arg Ala Val Val Pro Pro Ile Ser Pro Ser Val Thr Phe Lys
 35 40 45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
 65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Met Ala Ala Thr Val Thr
 85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
 100 105 110

Val Tyr Ala Gly Thr Asn Leu Tyr Phe Arg Gln Val Ala Ser Glu Phe
 115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu

130

135

140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
 145 150 155 160

Asn Pro Thr Gln Lys Met Thr Asp Ile Glu Ala Cys Ala His Ile Val
 165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
 180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Cys Met Cys
 195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
 210 215 220

Val Ser Val Asn Cys Glu Ser Leu Tyr Asn Arg Leu Arg Phe Leu Gln
 225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Ile Asp Cys Tyr Leu Cys Asn
 245 250 255

Arg Gly Leu Lys Thr Leu Gln Val Arg Met Glu Arg His Phe Lys Asn
 260 265 270

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

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Val Lys
 290 295 300

Arg Gln Cys Thr Gly Cys Gly Gly Met Val Thr Phe Tyr Ile Lys Gly
 305 310 315 320

Thr Leu Gln His Ala Glu Ile Phe Leu Lys Asn Leu Lys Leu Phe Thr
 325 330 335

Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Val Glu Leu Pro Ala
 340 345 350

Ser Met Thr His Ala Ser Val Leu Lys Lys Asp Arg Asp Val Leu Gly
355 360 365

Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Glu
370 375 380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
385 390 395 400

Ser Gly Ser His Ser
405

<210> 12
<211> 405
<212> PRT
<213> Secuencia artificial

<220>
<223> Polipéptido sintético

<400> 12

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

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Glu Pro Glu Gln Trp
20 25 30

Thr Ser Arg Ala Val Val Pro Pro Ile Ser Pro Ser Val Thr Phe Lys
35 40 45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Met Ala Ala Thr Val Thr
85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
100 105 110

Val Tyr Ala Gly Thr Asn Leu Tyr Phe Arg Gln Val Ala Ser Glu Phe
115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
145 150 155 160

Asn Pro Thr Gln Lys Met Thr Asp Ile Glu Ala Cys Ala His Ile Val
165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Cys Met Cys
195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
210 215 220

Val Ser Val Asn Cys Glu Ser Leu Tyr Asn Arg Leu Arg Phe Leu Gln
225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Ile Asp Cys Tyr Leu Cys Asn
245 250 255

Arg Gly Leu Lys Thr Leu Gln Val Arg Met Glu Arg His Phe Lys Asn
260 265 270

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

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Val Lys
290 295 300

Arg Gln Cys Thr Gly Cys Gly Gly Met Val Thr Phe Tyr Ile Lys Gly
305 310 315 320

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

325

330

335

Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Val Glu Leu Pro Ala
 340 345 350

Ser Met Thr His Ala Ser Val Leu Lys Lys Asp Arg Asp Val Leu Gly
 355 360 365

Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Glu
 370 375 380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
 385 390 395 400

Ser Gly Ser His Ser
 405

<210> 13

<211> 405

<212> PRT

<213> Secuencia artificial

<220>

<223> Polipéptido sintético

<400> 13

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

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Glu Pro Glu Gln Trp
 20 25 30

Thr Ser Arg Ala Val Val Pro Pro Ile Ser Pro Ser Val Thr Phe Lys
 35 40 45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
 65 70 75 80

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

85

90

95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
 100 105 110

Val Tyr Ala Gly Thr Asn Ala Tyr Phe Arg Gln Val Ala Ser Glu Phe
 115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
 130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
 145 150 155 160

Asn Pro Thr Gln Lys Met Thr Asp Ile Glu Ala Cys Ala His Ile Val
 165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
 180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Cys Met Cys
 195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
 210 215 220

Val Ser Val Asn Cys Glu Ser Leu Tyr Asn Arg Leu Arg Phe Leu Gln
 225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Ile Asp Cys Tyr Leu Cys Asn
 245 250 255

Arg Gly Leu Lys Thr Leu Gln Val Arg Met Glu Arg His Phe Lys Asn
 260 265 270

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

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Val Lys
 290 295 300

Arg Gln Cys Thr Gly Cys Gly Gly Met Val Thr Phe Tyr Ile Lys Gly
305 310 315 320

Thr Leu Gln His Ala Glu Ile Phe Leu Lys Asn Leu Lys Leu Phe Thr
325 330 335

Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Val Glu Leu Pro Ala
340 345 350

Ser Met Thr His Ala Ser Val Leu Lys Lys Asp Arg Asp Val Leu Gly
355 360 365

Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Glu
370 375 380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
385 390 395 400

Ser Gly Ser His Ser
405

<210> 14
<211> 405
<212> PRT
<213> Secuencia artificial

<220>
<223> Polipéptido sintético

<400> 14

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

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Glu Pro Glu Gln Trp
20 25 30

Thr Ser Arg Ala Val Val Pro Pro Ile Ser Pro Ser Val Thr Phe Lys
35 40 45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Met Ala Ala Thr Val Thr
85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
100 105 110

Val Tyr Ala Gly Thr Asn Ala Tyr Phe Arg Gln Val Ala Ser Glu Phe
115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
145 150 155 160

Asn Pro Thr Gln Lys Met Thr Asp Ile Glu Ala Cys Ala His Ile Val
165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Cys Met Cys
195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
210 215 220

Val Ser Val Asn Cys Glu Ser Leu Tyr Asn Arg Leu Arg Phe Leu Gln
225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Ile Asp Cys Tyr Leu Cys Asn
245 250 255

Arg Gly Leu Lys Thr Leu Gln Val Arg Met Glu Arg His Phe Lys Asn
260 265 270

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

275

280

285

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Val Lys
 290 295 300

Arg Gln Cys Thr Gly Cys Gly Gly Met Val Thr Phe Tyr Ile Lys Gly
 305 310 315 320

Thr Leu Gln His Ala Glu Ile Phe Leu Lys Asn Leu Lys Leu Phe Thr
 325 330 335

Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Val Glu Leu Pro Ala
 340 345 350

Ser Met Thr His Ala Ser Val Leu Lys Lys Asp Arg Asp Val Leu Gly
 355 360 365

Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Glu
 370 375 380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
 385 390 395 400

Ser Gly Ser His Ser
 405

<210> 15

<211> 405

<212> PRT

<213> Secuencia artificial

<220>

<223> Polipéptido sintético

<400> 15

Met Gln Glu Lys Asp Ala Ser Ser Gln Gly Phe Leu Pro His Phe Gln
 1 5 10 15

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Glu Pro Glu Gln Trp
 20 25 30

Thr Ser Arg Ala Val Val Pro Leu Ile Ser Leu Ser Thr Thr Phe Lys

35

40

45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
 65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Met Ala Ala Thr Val Thr
 85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
 100 105 110

Val Tyr Gly Gly Thr Asn Leu Tyr Phe Arg Gln Val Ala Ser Glu Phe
 115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
 130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
 145 150 155 160

Asn Pro Val Leu Lys Met Ile Asp Ile Glu Ala Cys Ala His Ile Val
 165 170 175

His Lys Arg Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
 180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Cys Met Cys
 195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
 210 215 220

Val Ser Val Asn Cys Glu Arg Leu His Asn Arg Leu Arg Phe Leu Gln
 225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Leu Asp Cys Tyr Leu Cys Asn
 245 250 255

Arg Gly Leu Lys Thr Leu His Val Arg Met Glu Arg His Phe Lys Asn
260 265 270

Gly Met Ala Val Ala Gln Phe Leu Glu Ser Asn Pro Gly Val Glu Lys
275 280 285

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Ala Lys
290 295 300

Arg Gln Cys Thr Gly Cys Gly Gly Met Ile Thr Phe Tyr Ile Lys Gly
305 310 315 320

Thr Leu Gln His Ala Glu Ile Phe Leu Lys Asn Leu Lys Leu Phe Thr
325 330 335

Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Val Glu Leu Pro Ala
340 345 350

Ser Met Thr His Ala Ser Val Pro Lys Asn Asp Arg Asp Val Leu Gly
355 360 365

Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Lys
370 375 380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
385 390 395 400

Ser Gly Ser His Asn
405

<210> 16
<211> 405
<212> PRT
<213> Secuencia artificial

<220>
<223> Polipéptido sintético

<400> 16

Met Gln Glu Lys Asp Ala Ser Ser Gln Gly Phe Leu Pro His Phe Gln
1 5 10 15

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Glu Pro Glu Gln Trp
20 25 30

Thr Ser Arg Ala Val Val Pro Leu Ile Ser Leu Ser Thr Thr Phe Lys
35 40 45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Met Ala Ala Thr Val Thr
85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
100 105 110

Val Tyr Gly Gly Thr Asn Leu Tyr Phe Arg Gln Val Ala Ser Glu Phe
115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
145 150 155 160

Asn Pro Val Leu Lys Met Ile Asp Ile Glu Ala Cys Ala His Ile Val
165 170 175

His Lys Arg Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Cys Met Cys
195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
210 215 220

Val Ser Val Asn Cys Glu Arg Leu His Asn Arg Leu Arg Phe Leu Gln

225		230		235		240
Asn Ser Leu Gly	Ala Val Pro Ser Pro Leu Asp Cys Tyr Leu Cys Asn					
	245		250		255	
Arg Gly Leu Lys Thr Leu His Val Arg Met Glu Arg His Phe Lys Asn						
	260		265		270	
Gly Met Ala Val Ala Gln Phe Leu Glu Ser Asn Pro Gly Val Glu Lys						
	275		280		285	
Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Ala Lys						
	290		295		300	
Arg Gln Cys Thr Gly Cys Gly Gly Met Ile Thr Phe Tyr Ile Lys Gly						
305		310		315		320
Thr Leu Gln His Ala Glu Ile Phe Leu Lys Asn Leu Lys Leu Phe Thr						
	325		330		335	
Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Val Glu Leu Pro Ala						
	340		345		350	
Ser Met Thr His Ala Ser Val Pro Lys Asn Asp Arg Asp Val Leu Gly						
	355		360		365	
Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Lys						
	370		375		380	
Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro						
385		390		395		400
Ser Gly Ser His Asn						
	405					

<210> 17
 <211> 405
 <212> PRT
 <213> Secuencia artificial

 <220>
 <223> Polipéptido sintético

<400> 17

Met Gln Glu Lys Asp Ala Ser Ser Gln Gly Phe Leu Pro His Phe Gln
1 5 10 15

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Glu Pro Glu Gln Trp
20 25 30

Thr Ser Arg Ala Val Val Pro Leu Ile Ser Leu Ser Thr Thr Phe Lys
35 40 45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Met Ala Ala Thr Val Thr
85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
100 105 110

Val Tyr Gly Gly Thr Asn Ala Tyr Phe Arg Gln Val Ala Ser Glu Phe
115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
145 150 155 160

Asn Pro Val Leu Lys Met Ile Asp Ile Glu Ala Cys Ala His Ile Val
165 170 175

His Lys Arg Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Cys Met Cys
195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
210 215 220

Val Ser Val Asn Cys Glu Arg Leu His Asn Arg Leu Arg Phe Leu Gln
225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Leu Asp Cys Tyr Leu Cys Asn
245 250 255

Arg Gly Leu Lys Thr Leu His Val Arg Met Glu Arg His Phe Lys Asn
260 265 270

Gly Met Ala Val Ala Gln Phe Leu Glu Ser Asn Pro Gly Val Glu Lys
275 280 285

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Ala Lys
290 295 300

Arg Gln Cys Thr Gly Cys Gly Gly Met Ile Thr Phe Tyr Ile Lys Gly
305 310 315 320

Thr Leu Gln His Ala Glu Ile Phe Leu Lys Asn Leu Lys Leu Phe Thr
325 330 335

Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Val Glu Leu Pro Ala
340 345 350

Ser Met Thr His Ala Ser Val Pro Lys Asn Asp Arg Asp Val Leu Gly
355 360 365

Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Lys
370 375 380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
385 390 395 400

Ser Gly Ser His Asn
405

<211> 405
<212> PRT
<213> Secuencia artificial

<220>
<223> Polipéptido sintético

<400> 18

Met Gln Glu Lys Asp Ala Ser Ser Gln Gly Phe Leu Pro His Phe Gln
1 5 10 15

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Glu Pro Glu Gln Trp
20 25 30

Thr Ser Arg Ala Val Val Pro Leu Ile Ser Leu Ser Thr Thr Phe Lys
35 40 45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Met Ala Ala Thr Val Thr
85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
100 105 110

Val Tyr Gly Gly Thr Asn Ala Tyr Phe Arg Gln Val Ala Ser Glu Phe
115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
145 150 155 160

Asn Pro Val Leu Lys Met Ile Asp Ile Glu Ala Cys Ala His Ile Val
165 170 175

His Lys Arg Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser

180

185

190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Cys Met Cys
 195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
 210 215 220

Val Ser Val Asn Cys Glu Arg Leu His Asn Arg Leu Arg Phe Leu Gln
 225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Leu Asp Cys Tyr Leu Cys Asn
 245 250 255

Arg Gly Leu Lys Thr Leu His Val Arg Met Glu Arg His Phe Lys Asn
 260 265 270

Gly Met Ala Val Ala Gln Phe Leu Glu Ser Asn Pro Gly Val Glu Lys
 275 280 285

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Ala Lys
 290 295 300

Arg Gln Cys Thr Gly Cys Gly Gly Met Ile Thr Phe Tyr Ile Lys Gly
 305 310 315 320

Thr Leu Gln His Ala Glu Ile Phe Leu Lys Asn Leu Lys Leu Phe Thr
 325 330 335

Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Val Glu Leu Pro Ala
 340 345 350

Ser Met Thr His Ala Ser Val Pro Lys Asn Asp Arg Asp Val Leu Gly
 355 360 365

Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Lys
 370 375 380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
 385 390 395 400

Ser Gly Ser His Asn
405

<210> 19

<211> 405

<212> PRT

<213> Secuencia artificial

<220>

<223> Polipéptido sintético

<400> 19

Met Gln Glu Lys Asp Ala Ser Ser Gln Gly Phe Leu Pro His Phe Gln
1 5 10 15

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Asp Pro Glu Gln Trp
20 25 30

Thr Ser Arg Ala Leu Val Pro Pro Ile Ser Leu Ser Thr Thr Phe Lys
35 40 45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Met Ala Ala Thr Val Thr
85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
100 105 110

Val Tyr Gly Gly Thr Asn Leu Tyr Phe Arg Gln Val Ala Ser Glu Phe
115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
145 150 155 160

Asn Pro Thr Gln Lys Val Ile Asp Ile Glu Ala Cys Ala His Ile Val
165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Cys Met Tyr
195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
210 215 220

Val Ser Val Asn Cys Glu Ser Leu His Asn Arg Leu Arg Phe Leu Gln
225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Ile Asp Cys Tyr Leu Cys Asn
245 250 255

Arg Gly Leu Lys Thr Leu His Val Arg Met Glu Arg His Phe Lys Asn
260 265 270

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

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Val Lys
290 295 300

Arg Gln Cys Thr Gly Cys Gly Gly Met Val Thr Phe Tyr Ile Lys Gly
305 310 315 320

Thr Leu Gln His Ala Glu Ile Phe Leu Lys Asn Leu Lys Leu Phe Thr
325 330 335

Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Ala Glu Leu Pro Ala
340 345 350

Ser Met Thr His Ala Ser Val Leu Lys Asn Asp Arg Asp Val Leu Gly
355 360 365

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

370

375

380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
 385 390 395 400

Ser Gly Ser His Ser
 405

<210> 20

<211> 405

<212> PRT

<213> Secuencia artificial

<220>

<223> Polipéptido sintético

<400> 20

Met Gln Glu Lys Asp Ala Ser Ser Gln Gly Phe Leu Pro His Phe Gln
 1 5 10 15

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Asp Pro Glu Gln Trp
 20 25 30

Thr Ser Arg Ala Leu Val Pro Pro Ile Ser Leu Ser Thr Thr Phe Lys
 35 40 45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
 65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Met Ala Ala Thr Val Thr
 85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
 100 105 110

Val Tyr Gly Gly Thr Asn Leu Tyr Phe Arg Gln Val Ala Ser Glu Phe
 115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu

130

135

140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
 145 150 155 160

Asn Pro Thr Gln Lys Val Ile Asp Ile Glu Ala Cys Ala His Ile Val
 165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
 180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Cys Met Tyr
 195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
 210 215 220

Val Ser Val Asn Cys Glu Ser Leu His Asn Arg Leu Arg Phe Leu Gln
 225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Ile Asp Cys Tyr Leu Cys Asn
 245 250 255

Arg Gly Leu Lys Thr Leu His Val Arg Met Glu Arg His Phe Lys Asn
 260 265 270

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

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Val Lys
 290 295 300

Arg Gln Cys Thr Gly Cys Gly Gly Met Val Thr Phe Tyr Ile Lys Gly
 305 310 315 320

Thr Leu Gln His Ala Glu Ile Phe Leu Lys Asn Leu Lys Leu Phe Thr
 325 330 335

Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Ala Glu Leu Pro Ala
 340 345 350

Ser Met Thr His Ala Ser Val Leu Lys Asn Asp Arg Asp Val Leu Gly
355 360 365

Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Glu
370 375 380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
385 390 395 400

Ser Gly Ser His Ser
405

<210> 21
<211> 405
<212> PRT
<213> Secuencia artificial

<220>
<223> Polipéptido sintético

<400> 21

Met Gln Glu Lys Asp Ala Ser Ser Gln Gly Phe Leu Pro His Phe Gln
1 5 10 15

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Asp Pro Glu Gln Trp
20 25 30

Thr Ser Arg Ala Leu Val Pro Pro Ile Ser Leu Ser Thr Thr Phe Lys
35 40 45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Met Ala Ala Thr Val Thr
85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
100 105 110

Val Tyr Gly Gly Thr Asn Ala Tyr Phe Arg Gln Val Ala Ser Glu Phe
115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
145 150 155 160

Asn Pro Thr Gln Lys Val Ile Asp Ile Glu Ala Cys Ala His Ile Val
165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Cys Met Tyr
195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
210 215 220

Val Ser Val Asn Cys Glu Ser Leu His Asn Arg Leu Arg Phe Leu Gln
225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Ile Asp Cys Tyr Leu Cys Asn
245 250 255

Arg Gly Leu Lys Thr Leu His Val Arg Met Glu Arg His Phe Lys Asn
260 265 270

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

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Val Lys
290 295 300

Arg Gln Cys Thr Gly Cys Gly Gly Met Val Thr Phe Tyr Ile Lys Gly
305 310 315 320

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

325

330

335

Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Ala Glu Leu Pro Ala
 340 345 350

Ser Met Thr His Ala Ser Val Leu Lys Asn Asp Arg Asp Val Leu Gly
 355 360 365

Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Glu
 370 375 380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
 385 390 395 400

Ser Gly Ser His Ser
 405

<210> 22

<211> 405

<212> PRT

<213> Secuencia artificial

<220>

<223> Polipéptido sintético

<400> 22

Met Gln Glu Lys Asp Ala Ser Ser Gln Gly Phe Leu Pro His Phe Gln
 1 5 10 15

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Asp Pro Glu Gln Trp
 20 25 30

Thr Ser Arg Ala Leu Val Pro Pro Ile Ser Leu Ser Thr Thr Phe Lys
 35 40 45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
 65 70 75 80

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

85

90

95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
 100 105 110

Val Tyr Gly Gly Thr Asn Ala Tyr Phe Arg Gln Val Ala Ser Glu Phe
 115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
 130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
 145 150 155 160

Asn Pro Thr Gln Lys Val Ile Asp Ile Glu Ala Cys Ala His Ile Val
 165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
 180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Cys Met Tyr
 195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
 210 215 220

Val Ser Val Asn Cys Glu Ser Leu His Asn Arg Leu Arg Phe Leu Gln
 225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Ile Asp Cys Tyr Leu Cys Asn
 245 250 255

Arg Gly Leu Lys Thr Leu His Val Arg Met Glu Arg His Phe Lys Asn
 260 265 270

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

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Val Lys
 290 295 300

Arg Gln Cys Thr Gly Cys Gly Gly Met Val Thr Phe Tyr Ile Lys Gly
305 310 315 320

Thr Leu Gln His Ala Glu Ile Phe Leu Lys Asn Leu Lys Leu Phe Thr
325 330 335

Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Ala Glu Leu Pro Ala
340 345 350

Ser Met Thr His Ala Ser Val Leu Lys Asn Asp Arg Asp Val Leu Gly
355 360 365

Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Glu
370 375 380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
385 390 395 400

Ser Gly Ser His Ser
405

<210> 23
<211> 405
<212> PRT
<213> Secuencia artificial

<220>
<223> Polipéptido sintético

<400> 23

Met Gln Glu Lys Asp Ala Ser Ser Gln Gly Phe Leu Pro His Phe Gln
1 5 10 15

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Asp Pro Glu Gln Trp
20 25 30

Thr Ser Lys Ala Leu Val Pro Pro Ile Ser Leu Ser Thr Thr Phe Lys
35 40 45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Met Ala Ala Thr Val Thr
85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
100 105 110

Val Tyr Gly Gly Thr Asn Leu Tyr Phe Arg Gln Val Ala Ser Glu Phe
115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
145 150 155 160

Asn Pro Thr Gln Lys Val Ile Asp Ile Glu Ala Cys Ala His Ile Val
165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Cys Met Tyr
195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Ile Gly Leu
210 215 220

Val Ser Val Asn Cys Glu Ser Leu His Asn Arg Leu Arg Phe Leu Gln
225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Ile Asp Cys Tyr Leu Cys Asn
245 250 255

Arg Gly Leu Lys Thr Leu His Val Arg Met Glu Arg His Phe Lys Asn
260 265 270

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

275

280

285

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Val Lys
 290 295 300

Arg Gln Cys Thr Gly Cys Gly Gly Met Val Thr Phe Tyr Ile Lys Gly
 305 310 315 320

Thr Leu Gln His Ala Glu Ile Phe Leu Lys Asn Leu Lys Leu Phe Thr
 325 330 335

Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Ala Glu Leu Pro Ala
 340 345 350

Ser Met Thr His Ala Ser Val Leu Lys Asn Asp Arg Asp Val Leu Gly
 355 360 365

Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Glu
 370 375 380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
 385 390 395 400

Ser Gly Ser His Ser
 405

<210> 24

<211> 405

<212> PRT

<213> Secuencia artificial

<220>

<223> Polipéptido sintético

<400> 24

Met Gln Glu Lys Asp Ala Ser Ser Gln Gly Phe Leu Pro His Phe Gln
 1 5 10 15

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Asp Pro Glu Gln Trp
 20 25 30

Thr Ser Lys Ala Leu Val Pro Pro Ile Ser Leu Ser Thr Thr Phe Lys

35

40

45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
 65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Met Ala Ala Thr Val Thr
 85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
 100 105 110

Val Tyr Gly Gly Thr Asn Leu Tyr Phe Arg Gln Val Ala Ser Glu Phe
 115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
 130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
 145 150 155 160

Asn Pro Thr Gln Lys Val Ile Asp Ile Glu Ala Cys Ala His Ile Val
 165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
 180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Cys Met Tyr
 195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Ile Gly Leu
 210 215 220

Val Ser Val Asn Cys Glu Ser Leu His Asn Arg Leu Arg Phe Leu Gln
 225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Ile Asp Cys Tyr Leu Cys Asn
 245 250 255

Arg Gly Leu Lys Thr Leu His Val Arg Met Glu Arg His Phe Lys Asn
260 265 270

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

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Val Lys
290 295 300

Arg Gln Cys Thr Gly Cys Gly Gly Met Val Thr Phe Tyr Ile Lys Gly
305 310 315 320

Thr Leu Gln His Ala Glu Ile Phe Leu Lys Asn Leu Lys Leu Phe Thr
325 330 335

Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Ala Glu Leu Pro Ala
340 345 350

Ser Met Thr His Ala Ser Val Leu Lys Asn Asp Arg Asp Val Leu Gly
355 360 365

Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Glu
370 375 380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
385 390 395 400

Ser Gly Ser His Ser
405

<210> 25
<211> 405
<212> PRT
<213> Secuencia artificial

<220>
<223> Polipéptido sintético

<400> 25

Met Gln Glu Lys Asp Ala Ser Ser Gln Gly Phe Leu Pro His Phe Gln
1 5 10 15

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Asp Pro Glu Gln Trp
20 25 30

Thr Ser Lys Ala Leu Val Pro Pro Ile Ser Leu Ser Thr Thr Phe Lys
35 40 45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Met Ala Ala Thr Val Thr
85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
100 105 110

Val Tyr Gly Gly Thr Asn Ala Tyr Phe Arg Gln Val Ala Ser Glu Phe
115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
145 150 155 160

Asn Pro Thr Gln Lys Val Ile Asp Ile Glu Ala Cys Ala His Ile Val
165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Cys Met Tyr
195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Ile Gly Leu
210 215 220

Val Ser Val Asn Cys Glu Ser Leu His Asn Arg Leu Arg Phe Leu Gln

225		230		235		240
Asn Ser Leu Gly	Ala Val Pro Ser Pro	Ile Asp Cys Tyr	Leu Cys Asn			
	245	250	255			
Arg Gly Leu Lys	Thr Leu His Val	Arg Met Glu Arg	His Phe Lys Asn			
	260	265	270			
Gly Met Ala Val	Ala Gln Phe Leu	Glu Ser Asn Pro	Trp Val Glu Lys			
	275	280	285			
Val Ile Tyr Pro	Gly Leu Pro Ser	His Pro Gln His	Glu Leu Val Lys			
	290	295	300			
Arg Gln Cys Thr	Gly Cys Gly Gly	Met Val Thr Phe	Tyr Ile Lys Gly			
305	310	315	320			
Thr Leu Gln His	Ala Glu Ile Phe	Leu Lys Asn Leu	Lys Leu Phe Thr			
	325	330	335			
Leu Ala Val Ser	Leu Gly Gly Phe	Glu Ser Leu Ala	Glu Leu Pro Ala			
	340	345	350			
Ser Met Thr His	Ala Ser Val Leu	Lys Asn Asp Arg	Asp Val Leu Gly			
	355	360	365			
Ile Ser Asp Thr	Leu Ile Arg Leu	Ser Val Gly Leu	Glu Asp Glu Glu			
	370	375	380			
Asp Leu Leu Glu	Asp Leu Asp Gln	Ala Leu Lys Ala	Ala His Pro Pro			
385	390	395	400			
Ser Gly Ser His	Ser					
	405					

<210> 26
 <211> 405
 <212> PRT
 <213> Secuencia artificial

 <220>
 <223> Polipéptido sintético

<400> 26

Met Gln Glu Lys Asp Ala Ser Ser Gln Gly Phe Leu Pro His Phe Gln
1 5 10 15

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Asp Pro Glu Gln Trp
20 25 30

Thr Ser Lys Ala Leu Val Pro Pro Ile Ser Leu Ser Thr Thr Phe Lys
35 40 45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Met Ala Ala Thr Val Thr
85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
100 105 110

Val Tyr Gly Gly Thr Asn Ala Tyr Phe Arg Gln Val Ala Ser Glu Phe
115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
145 150 155 160

Asn Pro Thr Gln Lys Val Ile Asp Ile Glu Ala Cys Ala His Ile Val
165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Cys Met Tyr
195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Ile Gly Leu
210 215 220

Val Ser Val Asn Cys Glu Ser Leu His Asn Arg Leu Arg Phe Leu Gln
225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Ile Asp Cys Tyr Leu Cys Asn
245 250 255

Arg Gly Leu Lys Thr Leu His Val Arg Met Glu Arg His Phe Lys Asn
260 265 270

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

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Val Lys
290 295 300

Arg Gln Cys Thr Gly Cys Gly Gly Met Val Thr Phe Tyr Ile Lys Gly
305 310 315 320

Thr Leu Gln His Ala Glu Ile Phe Leu Lys Asn Leu Lys Leu Phe Thr
325 330 335

Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Ala Glu Leu Pro Ala
340 345 350

Ser Met Thr His Ala Ser Val Leu Lys Asn Asp Arg Asp Val Leu Gly
355 360 365

Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Glu
370 375 380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
385 390 395 400

Ser Gly Ser His Ser
405

<211> 405
<212> PRT
<213> Secuencia artificial

<220>
<223> Polipéptido sintético

<400> 27

Met Gln Glu Lys Asp Ala Ser Ser Gln Gly Phe Leu Pro His Phe Gln
1 5 10 15

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Asp Pro Glu Gln Trp
20 25 30

Thr Ser Arg Ala Val Val Pro Pro Ile Ser Leu Ser Thr Thr Phe Lys
35 40 45

Gln Gly Ala Pro Gly Gln His Ser Gly Phe Asn Tyr Ser Arg Ser Gly
50 55 60

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Leu Ala Ala Thr Val Thr
85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
100 105 110

Val Tyr Gly Gly Thr Asn Leu Tyr Phe Arg Gln Val Ala Ser Glu Phe
115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
145 150 155 160

Asn Pro Thr Gln Lys Val Ile Asp Ile Glu Gly Cys Ala His Ile Val
165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser

180

185

190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Ser Met Tyr
 195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
 210 215 220

Val Ser Val Asn Cys Glu Ser Leu His Asn Arg Leu Arg Phe Leu Gln
 225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Ile Asp Cys Tyr Leu Cys Asn
 245 250 255

Arg Gly Leu Lys Thr Leu His Val Arg Met Glu Lys His Phe Lys Asn
 260 265 270

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

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Val Lys
 290 295 300

Arg Gln Cys Thr Gly Cys Thr Gly Met Val Thr Phe Tyr Ile Lys Gly
 305 310 315 320

Thr Leu Gln His Ala Glu Ile Phe Leu Lys Asn Leu Lys Leu Phe Asp
 325 330 335

Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Ala Glu Leu Pro Ala
 340 345 350

Ile Met Thr His Ala Ser Val Leu Lys Asn Asp Arg Asp Val Leu Gly
 355 360 365

Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Glu
 370 375 380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
 385 390 395 400

Ser Gly Ser His Ser
405

<210> 28

<211> 405

<212> PRT

<213> Secuencia artificial

<220>

<223> Polipéptido sintético

<400> 28

Met Gln Glu Lys Asp Ala Ser Ser Gln Gly Phe Leu Pro His Phe Gln
1 5 10 15

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Asp Pro Glu Gln Trp
20 25 30

Thr Ser Arg Ala Val Val Pro Pro Ile Ser Leu Ser Thr Thr Phe Lys
35 40 45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Met Ala Ala Thr Val Thr
85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
100 105 110

Val Tyr Gly Gly Thr Asn Leu Tyr Phe Arg Gln Val Ala Ser Glu Phe
115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
145 150 155 160

Asn Pro Thr Gln Lys Val Ile Asp Ile Glu Gly Cys Ala His Ile Val
165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Ser Met Tyr
195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
210 215 220

Val Ser Val Asn Cys Glu Ser Leu His Asn Arg Leu Arg Phe Leu Gln
225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Ile Asp Cys Tyr Leu Cys Asn
245 250 255

Arg Gly Leu Lys Thr Leu His Val Arg Met Glu Arg His Phe Lys Asn
260 265 270

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

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Val Lys
290 295 300

Arg Gln Cys Thr Gly Cys Gly Gly Met Val Thr Phe Tyr Ile Lys Gly
305 310 315 320

Thr Leu Gln His Ala Glu Ile Phe Leu Lys Asn Leu Lys Leu Phe Asp
325 330 335

Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Ala Glu Leu Pro Ala
340 345 350

Ser Met Thr His Ala Ser Val Leu Lys Asn Asp Arg Asp Val Leu Gly
355 360 365

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

370

375

380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
 385 390 395 400

Ser Gly Ser His Ser
 405

<210> 29

<211> 405

<212> PRT

<213> Secuencia artificial

<220>

<223> Polipéptido sintético

<400> 29

Met Gln Glu Lys Asp Ala Ser Ser Gln Gly Phe Leu Pro His Phe Gln
 1 5 10 15

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Asp Pro Glu Gln Trp
 20 25 30

Thr Ser Arg Ala Val Val Pro Pro Ile Ser Leu Ser Thr Thr Phe Lys
 35 40 45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
 65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Met Ala Ala Thr Val Thr
 85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
 100 105 110

Val Tyr Gly Gly Thr Asn Leu Tyr Phe Arg Gln Val Ala Ser Glu Phe
 115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu

130

135

140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
 145 150 155 160

Asn Pro Thr Gln Lys Val Ile Asp Ile Glu Gly Cys Ala His Ile Val
 165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
 180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Ser Met Tyr
 195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
 210 215 220

Val Ser Val Asn Cys Glu Ser Leu His Asn Arg Leu Arg Phe Leu Gln
 225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Ile Asp Cys Tyr Leu Cys Asn
 245 250 255

Arg Gly Leu Lys Thr Leu His Val Arg Met Glu Arg His Phe Lys Asn
 260 265 270

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

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Val Lys
 290 295 300

Arg Gln Cys Thr Gly Cys Gly Gly Met Val Thr Phe Tyr Ile Lys Gly
 305 310 315 320

Thr Leu Gln His Ala Glu Ile Phe Leu Lys Asn Leu Lys Leu Phe Asp
 325 330 335

Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Ala Glu Leu Pro Ala
 340 345 350

Ser Met Thr His Ala Ser Val Leu Lys Asn Asp Arg Asp Val Leu Gly
355 360 365

Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Glu
370 375 380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
385 390 395 400

Ser Gly Ser His Ser
405

<210> 30
<211> 405
<212> PRT
<213> Secuencia artificial

<220>
<223> Polipéptido sintético

<400> 30

Met Gln Glu Lys Asp Ala Ser Ser Gln Gly Phe Leu Pro His Phe Gln
1 5 10 15

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Asp Pro Glu Gln Trp
20 25 30

Thr Ser Arg Ala Val Val Pro Pro Ile Ser Leu Ser Thr Thr Phe Lys
35 40 45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Met Ala Ala Thr Val Thr
85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
100 105 110

Val Tyr Gly Gly Thr Asn Ala Tyr Phe Arg Gln Val Ala Ser Glu Phe
115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
145 150 155 160

Asn Pro Thr Gln Lys Val Ile Asp Ile Glu Gly Cys Ala His Ile Val
165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Ser Met Tyr
195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
210 215 220

Val Ser Val Asn Cys Glu Ser Leu His Asn Arg Leu Arg Phe Leu Gln
225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Ile Asp Cys Tyr Leu Cys Asn
245 250 255

Arg Gly Leu Lys Thr Leu His Val Arg Met Glu Arg His Phe Lys Asn
260 265 270

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

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Val Lys
290 295 300

Arg Gln Cys Thr Gly Cys Gly Gly Met Val Thr Phe Tyr Ile Lys Gly
305 310 315 320

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

325

330

335

Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Ala Glu Leu Pro Ala
 340 345 350

Ser Met Thr His Ala Ser Val Leu Lys Asn Asp Arg Asp Val Leu Gly
 355 360 365

Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Glu
 370 375 380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
 385 390 395 400

Ser Gly Ser His Ser
 405

<210> 31

<211> 405

<212> PRT

<213> Secuencia artificial

<220>

<223> Polipéptido sintético

<400> 31

Met Gln Glu Lys Asp Ala Ser Ser Gln Gly Phe Leu Pro His Phe Gln
 1 5 10 15

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Asp Pro Glu Gln Trp
 20 25 30

Thr Ser Arg Ala Val Val Pro Pro Ile Ser Leu Ser Thr Thr Phe Lys
 35 40 45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
 65 70 75 80

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

85

90

95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
 100 105 110

Val Tyr Gly Gly Thr Asn Ala Tyr Phe Arg Gln Val Ala Ser Glu Phe
 115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
 130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
 145 150 155 160

Asn Pro Thr Gln Lys Val Ile Asp Ile Glu Gly Cys Ala His Ile Val
 165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
 180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Ser Met Tyr
 195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
 210 215 220

Val Ser Val Asn Cys Glu Ser Leu His Asn Arg Leu Arg Phe Leu Gln
 225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Ile Asp Cys Tyr Leu Cys Asn
 245 250 255

Arg Gly Leu Lys Thr Leu His Val Arg Met Glu Arg His Phe Lys Asn
 260 265 270

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

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Val Lys
 290 295 300

Arg Gln Cys Thr Gly Cys Gly Gly Met Val Thr Phe Tyr Ile Lys Gly
305 310 315 320

Thr Leu Gln His Ala Glu Ile Phe Leu Lys Asn Leu Lys Leu Phe Asp
325 330 335

Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Ala Glu Leu Pro Ala
340 345 350

Ser Met Thr His Ala Ser Val Leu Lys Asn Asp Arg Asp Val Leu Gly
355 360 365

Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Glu
370 375 380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
385 390 395 400

Ser Gly Ser His Ser
405

<210> 32
<211> 405
<212> PRT
<213> Secuencia artificial

<220>
<223> Polipéptido sintético

<400> 32

Met Gln Glu Lys Asp Ala Ser Ser Gln Gly Phe Leu Pro His Phe Gln
1 5 10 15

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Asp Pro Glu Gln Trp
20 25 30

Thr Ser Arg Ala Val Val Pro Pro Ile Ser Leu Ser Thr Thr Phe Lys
35 40 45

Gln Gly Ala Pro Gly Gln His Ser Gly Phe Asn Tyr Ser Arg Ser Gly
50 55 60

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Leu Ala Ala Thr Val Thr
85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
100 105 110

Val Tyr Gly Gly Thr Asn Leu Tyr Phe Arg Gln Val Ala Ser Glu Phe
115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
145 150 155 160

Asn Pro Thr Gln Lys Val Ile Asp Ile Glu Gly Cys Ala His Ile Val
165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Ser Met Tyr
195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
210 215 220

Val Ser Val Asn Cys Glu Ser Leu His Asn Arg Leu Arg Phe Leu Gln
225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Ile Asp Cys Tyr Leu Cys Asn
245 250 255

Arg Gly Leu Lys Thr Leu His Val Arg Met Glu Lys His Phe Lys Asn
260 265 270

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

275

280

285

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Val Lys
 290 295 300

Arg Gln Cys Thr Gly Cys Thr Gly Met Val Thr Phe Tyr Ile Lys Gly
 305 310 315 320

Thr Leu Gln His Ala Glu Ile Phe Leu Lys Asn Leu Lys Leu Phe Glu
 325 330 335

Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Ala Glu Leu Pro Ala
 340 345 350

Ile Met Thr His Ala Ser Val Leu Lys Asn Asp Arg Asp Val Leu Gly
 355 360 365

Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Glu
 370 375 380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
 385 390 395 400

Ser Gly Ser His Ser
 405

<210> 33

<211> 405

<212> PRT

<213> Secuencia artificial

<220>

<223> Polipéptido sintético

<400> 33

Met Gln Glu Lys Asp Ala Ser Ser Gln Gly Phe Leu Pro His Phe Gln
 1 5 10 15

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Asp Pro Glu Gln Trp
 20 25 30

Thr Ser Arg Ala Val Val Pro Pro Ile Ser Leu Ser Thr Thr Phe Lys

35

40

45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
 65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Met Ala Ala Thr Val Thr
 85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
 100 105 110

Val Tyr Gly Gly Thr Asn Leu Tyr Phe Arg Gln Val Ala Ser Glu Phe
 115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
 130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
 145 150 155 160

Asn Pro Thr Gln Lys Val Ile Asp Ile Glu Gly Cys Ala His Ile Val
 165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
 180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Ser Met Tyr
 195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
 210 215 220

Val Ser Val Asn Cys Glu Ser Leu His Asn Arg Leu Arg Phe Leu Gln
 225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Ile Asp Cys Tyr Leu Cys Asn
 245 250 255

Arg Gly Leu Lys Thr Leu His Val Arg Met Glu Arg His Phe Lys Asn
260 265 270

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

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Val Lys
290 295 300

Arg Gln Cys Thr Gly Cys Gly Gly Met Val Thr Phe Tyr Ile Lys Gly
305 310 315 320

Thr Leu Gln His Ala Glu Ile Phe Leu Lys Asn Leu Lys Leu Phe Glu
325 330 335

Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Ala Glu Leu Pro Ala
340 345 350

Ser Met Thr His Ala Ser Val Leu Lys Asn Asp Arg Asp Val Leu Gly
355 360 365

Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Glu
370 375 380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
385 390 395 400

Ser Gly Ser His Ser
405

<210> 34
<211> 405
<212> PRT
<213> Secuencia artificial

<220>
<223> Polipéptido sintético

<400> 34

Met Gln Glu Lys Asp Ala Ser Ser Gln Gly Phe Leu Pro His Phe Gln
1 5 10 15

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Asp Pro Glu Gln Trp
20 25 30

Thr Ser Arg Ala Val Val Pro Pro Ile Ser Leu Ser Thr Thr Phe Lys
35 40 45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Met Ala Ala Thr Val Thr
85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
100 105 110

Val Tyr Gly Gly Thr Asn Leu Tyr Phe Arg Gln Val Ala Ser Glu Phe
115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
145 150 155 160

Asn Pro Thr Gln Lys Val Ile Asp Ile Glu Gly Cys Ala His Ile Val
165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Ser Met Tyr
195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
210 215 220

Val Ser Val Asn Cys Glu Ser Leu His Asn Arg Leu Arg Phe Leu Gln

225		230		235		240
Asn Ser Leu Gly	Ala Val Pro Ser Pro	Ile Asp Cys Tyr	Leu Cys Asn			
	245	250	255			
Arg Gly Leu Lys	Thr Leu His Val	Arg Met Glu Arg	His Phe Lys Asn			
	260	265	270			
Gly Met Ala Val	Ala Gln Phe Leu	Glu Ser Asn Pro	Trp Val Glu Lys			
	275	280	285			
Val Ile Tyr Pro	Gly Leu Pro Ser	His Pro Gln His	Glu Leu Val Lys			
	290	295	300			
Arg Gln Cys Thr	Gly Cys Gly Gly	Met Val Thr Phe	Tyr Ile Lys Gly			
305	310	315	320			
Thr Leu Gln His	Ala Glu Ile Phe	Leu Lys Asn Leu	Lys Leu Phe Glu			
	325	330	335			
Leu Ala Val Ser	Leu Gly Gly Phe	Glu Ser Leu Ala	Glu Leu Pro Ala			
	340	345	350			
Ser Met Thr His	Ala Ser Val Leu	Lys Asn Asp Arg	Asp Val Leu Gly			
	355	360	365			
Ile Ser Asp Thr	Leu Ile Arg Leu	Ser Val Gly Leu	Glu Asp Glu Glu			
	370	375	380			
Asp Leu Leu Glu	Asp Leu Asp Gln	Ala Leu Lys Ala	Ala His Pro Pro			
385	390	395	400			
Ser Gly Ser His	Ser					
	405					

<210> 35
 <211> 405
 <212> PRT
 <213> Secuencia artificial

 <220>
 <223> Polipéptido sintético

<400> 35

Met Gln Glu Lys Asp Ala Ser Ser Gln Gly Phe Leu Pro His Phe Gln
1 5 10 15

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Asp Pro Glu Gln Trp
20 25 30

Thr Ser Arg Ala Val Val Pro Pro Ile Ser Leu Ser Thr Thr Phe Lys
35 40 45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Met Ala Ala Thr Val Thr
85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
100 105 110

Val Tyr Gly Gly Thr Asn Ala Tyr Phe Arg Gln Val Ala Ser Glu Phe
115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
145 150 155 160

Asn Pro Thr Gln Lys Val Ile Asp Ile Glu Gly Cys Ala His Ile Val
165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Ser Met Tyr
195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
210 215 220

Val Ser Val Asn Cys Glu Ser Leu His Asn Arg Leu Arg Phe Leu Gln
225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Ile Asp Cys Tyr Leu Cys Asn
245 250 255

Arg Gly Leu Lys Thr Leu His Val Arg Met Glu Arg His Phe Lys Asn
260 265 270

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

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Val Lys
290 295 300

Arg Gln Cys Thr Gly Cys Gly Gly Met Val Thr Phe Tyr Ile Lys Gly
305 310 315 320

Thr Leu Gln His Ala Glu Ile Phe Leu Lys Asn Leu Lys Leu Phe Glu
325 330 335

Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Ala Glu Leu Pro Ala
340 345 350

Ser Met Thr His Ala Ser Val Leu Lys Asn Asp Arg Asp Val Leu Gly
355 360 365

Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Glu
370 375 380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
385 390 395 400

Ser Gly Ser His Ser
405

<211> 405
<212> PRT
<213> Secuencia artificial

<220>
<223> Polipéptido sintético

<400> 36

Met Gln Glu Lys Asp Ala Ser Ser Gln Gly Phe Leu Pro His Phe Gln
1 5 10 15

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Asp Pro Glu Gln Trp
20 25 30

Thr Ser Arg Ala Val Val Pro Pro Ile Ser Leu Ser Thr Thr Phe Lys
35 40 45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Met Ala Ala Thr Val Thr
85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
100 105 110

Val Tyr Gly Gly Thr Asn Ala Tyr Phe Arg Gln Val Ala Ser Glu Phe
115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
145 150 155 160

Asn Pro Thr Gln Lys Val Ile Asp Ile Glu Gly Cys Ala His Ile Val
165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser

180

185

190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Ser Met Tyr
 195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
 210 215 220

Val Ser Val Asn Cys Glu Ser Leu His Asn Arg Leu Arg Phe Leu Gln
 225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Ile Asp Cys Tyr Leu Cys Asn
 245 250 255

Arg Gly Leu Lys Thr Leu His Val Arg Met Glu Arg His Phe Lys Asn
 260 265 270

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

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Val Lys
 290 295 300

Arg Gln Cys Thr Gly Cys Gly Gly Met Val Thr Phe Tyr Ile Lys Gly
 305 310 315 320

Thr Leu Gln His Ala Glu Ile Phe Leu Lys Asn Leu Lys Leu Phe Glu
 325 330 335

Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Ala Glu Leu Pro Ala
 340 345 350

Ser Met Thr His Ala Ser Val Leu Lys Asn Asp Arg Asp Val Leu Gly
 355 360 365

Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Glu
 370 375 380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
 385 390 395 400

Ser Gly Ser His Ser
405

<210> 37

<211> 405

<212> PRT

<213> Secuencia artificial

<220>

<223> Polipéptido sintético

<400> 37

Met Gln Glu Lys Asp Ala Ser Ser Gln Gly Phe Leu Pro His Phe Gln
1 5 10 15

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Asp Pro Glu Gln Trp
20 25 30

Thr Ser Arg Ala Val Val Pro Pro Ile Ser Leu Ser Thr Thr Phe Lys
35 40 45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Met Ala Ala Thr Val Thr
85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
100 105 110

Val Tyr Gly Gly Thr Asn Asp Tyr Phe Arg Gln Val Ala Ser Glu Phe
115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
145 150 155 160

Asn Pro Thr Gln Lys Val Ile Asp Ile Glu Gly Cys Ala His Ile Val
165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Ser Met Tyr
195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
210 215 220

Val Ser Val Asn Cys Glu Ser Leu His Asn Arg Leu Arg Phe Leu Gln
225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Ile Asp Cys Tyr Leu Cys Asn
245 250 255

Arg Gly Leu Lys Thr Leu His Val Arg Met Glu Arg His Phe Lys Asn
260 265 270

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

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Val Lys
290 295 300

Arg Gln Cys Thr Gly Cys Gly Gly Met Val Thr Phe Tyr Ile Lys Gly
305 310 315 320

Thr Leu Gln His Ala Glu Ile Phe Leu Lys Asn Leu Lys Leu Phe Thr
325 330 335

Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Ala Glu Leu Pro Ala
340 345 350

Ser Met Thr His Ala Ser Val Leu Lys Asn Asp Arg Asp Val Leu Gly
355 360 365

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

370

375

380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
 385 390 395 400

Ser Gly Ser His Ser
 405

<210> 38

<211> 405

<212> PRT

<213> Secuencia artificial

<220>

<223> Polipéptido sintético

<400> 38

Met Gln Glu Lys Asp Ala Ser Ser Gln Gly Phe Leu Pro His Phe Gln
 1 5 10 15

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Asp Pro Glu Gln Trp
 20 25 30

Thr Ser Arg Ala Val Val Pro Pro Ile Ser Leu Ser Thr Thr Phe Lys
 35 40 45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
 65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Met Ala Ala Thr Val Thr
 85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
 100 105 110

Val Tyr Gly Gly Thr Asn His Tyr Phe Arg Gln Val Ala Ser Glu Phe
 115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu

130

135

140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
 145 150 155 160

Asn Pro Thr Gln Lys Val Ile Asp Ile Glu Gly Cys Ala His Ile Val
 165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
 180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Ser Met Tyr
 195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
 210 215 220

Val Ser Val Asn Cys Glu Ser Leu His Asn Arg Leu Arg Phe Leu Gln
 225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Ile Asp Cys Tyr Leu Cys Asn
 245 250 255

Arg Gly Leu Lys Thr Leu His Val Arg Met Glu Arg His Phe Lys Asn
 260 265 270

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

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Val Lys
 290 295 300

Arg Gln Cys Thr Gly Cys Gly Gly Met Val Thr Phe Tyr Ile Lys Gly
 305 310 315 320

Thr Leu Gln His Ala Glu Ile Phe Leu Lys Asn Leu Lys Leu Phe Thr
 325 330 335

Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Ala Glu Leu Pro Ala
 340 345 350

Ser Met Thr His Ala Ser Val Leu Lys Asn Asp Arg Asp Val Leu Gly
355 360 365

Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Glu
370 375 380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
385 390 395 400

Ser Gly Ser His Ser
405

<210> 39
<211> 405
<212> PRT
<213> Secuencia artificial

<220>
<223> Polipéptido sintético

<400> 39

Met Gln Glu Lys Asp Ala Ser Ser Gln Gly Phe Leu Pro His Phe Gln
1 5 10 15

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Asp Pro Glu Gln Trp
20 25 30

Thr Ser Arg Ala Val Val Pro Pro Ile Ser Leu Ser Thr Thr Phe Lys
35 40 45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Met Ala Ala Thr Val Thr
85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
100 105 110

Val Tyr Gly Gly Thr Asn Gly Tyr Phe Arg Gln Val Ala Ser Glu Phe
115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
145 150 155 160

Asn Pro Thr Gln Lys Val Ile Asp Ile Glu Gly Cys Ala His Ile Val
165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Ser Met Tyr
195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
210 215 220

Val Ser Val Asn Cys Glu Ser Leu His Asn Arg Leu Arg Phe Leu Gln
225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Ile Asp Cys Tyr Leu Cys Asn
245 250 255

Arg Gly Leu Lys Thr Leu His Val Arg Met Glu Arg His Phe Lys Asn
260 265 270

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

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Val Lys
290 295 300

Arg Gln Cys Thr Gly Cys Gly Gly Met Val Thr Phe Tyr Ile Lys Gly
305 310 315 320

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

325

330

335

Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Ala Glu Leu Pro Ala
 340 345 350

Ser Met Thr His Ala Ser Val Leu Lys Asn Asp Arg Asp Val Leu Gly
 355 360 365

Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Glu
 370 375 380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
 385 390 395 400

Ser Gly Ser His Ser
 405

<210> 40

<211> 405

<212> PRT

<213> Secuencia artificial

<220>

<223> Polipéptido sintético

<400> 40

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

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Glu Pro Glu Gln Trp
 20 25 30

Thr Ser Arg Ala Val Val Pro Pro Ile Ser Pro Ser Val Thr Phe Lys
 35 40 45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
 65 70 75 80

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

85

90

95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
 100 105 110

Val Tyr Ala Gly Thr Asn Asp Tyr Phe Arg Gln Val Ala Ser Glu Phe
 115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
 130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
 145 150 155 160

Asn Pro Thr Gln Lys Met Thr Asp Ile Glu Ala Cys Ala His Ile Val
 165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
 180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Cys Met Cys
 195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
 210 215 220

Val Ser Val Asn Cys Glu Ser Leu Tyr Asn Arg Leu Arg Phe Leu Gln
 225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Ile Asp Cys Tyr Leu Cys Asn
 245 250 255

Arg Gly Leu Lys Thr Leu Gln Val Arg Met Glu Arg His Phe Lys Asn
 260 265 270

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

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Val Lys
 290 295 300

Arg Gln Cys Thr Gly Cys Gly Gly Met Val Thr Phe Tyr Ile Lys Gly
305 310 315 320

Thr Leu Gln His Ala Glu Ile Phe Leu Lys Asn Leu Lys Leu Phe Thr
325 330 335

Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Val Glu Leu Pro Ala
340 345 350

Ser Met Thr His Ala Ser Val Leu Lys Lys Asp Arg Asp Val Leu Gly
355 360 365

Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Glu
370 375 380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
385 390 395 400

Ser Gly Ser His Ser
405

<210> 41

<211> 405

<212> PRT

<213> Secuencia artificial

<220>

<223> Polipéptido sintético

<400> 41

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

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Glu Pro Glu Gln Trp
20 25 30

Thr Ser Arg Ala Val Val Pro Pro Ile Ser Pro Ser Val Thr Phe Lys
35 40 45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Met Ala Ala Thr Val Thr
85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
100 105 110

Val Tyr Ala Gly Thr Asn His Tyr Phe Arg Gln Val Ala Ser Glu Phe
115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
145 150 155 160

Asn Pro Thr Gln Lys Met Thr Asp Ile Glu Ala Cys Ala His Ile Val
165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Cys Met Cys
195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
210 215 220

Val Ser Val Asn Cys Glu Ser Leu Tyr Asn Arg Leu Arg Phe Leu Gln
225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Ile Asp Cys Tyr Leu Cys Asn
245 250 255

Arg Gly Leu Lys Thr Leu Gln Val Arg Met Glu Arg His Phe Lys Asn
260 265 270

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

275

280

285

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Val Lys
 290 295 300

Arg Gln Cys Thr Gly Cys Gly Gly Met Val Thr Phe Tyr Ile Lys Gly
 305 310 315 320

Thr Leu Gln His Ala Glu Ile Phe Leu Lys Asn Leu Lys Leu Phe Thr
 325 330 335

Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Val Glu Leu Pro Ala
 340 345 350

Ser Met Thr His Ala Ser Val Leu Lys Lys Asp Arg Asp Val Leu Gly
 355 360 365

Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Glu
 370 375 380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
 385 390 395 400

Ser Gly Ser His Ser
 405

<210> 42

<211> 405

<212> PRT

<213> Secuencia artificial

<220>

<223> Polipéptido sintético

<400> 42

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

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Glu Pro Glu Gln Trp
 20 25 30

Thr Ser Arg Ala Val Val Pro Pro Ile Ser Pro Ser Val Thr Phe Lys

35

40

45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
 65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Met Ala Ala Thr Val Thr
 85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
 100 105 110

Val Tyr Ala Gly Thr Asn Gly Tyr Phe Arg Gln Val Ala Ser Glu Phe
 115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
 130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
 145 150 155 160

Asn Pro Thr Gln Lys Met Thr Asp Ile Glu Ala Cys Ala His Ile Val
 165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
 180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Cys Met Cys
 195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
 210 215 220

Val Ser Val Asn Cys Glu Ser Leu Tyr Asn Arg Leu Arg Phe Leu Gln
 225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Ile Asp Cys Tyr Leu Cys Asn
 245 250 255

Arg Gly Leu Lys Thr Leu Gln Val Arg Met Glu Arg His Phe Lys Asn
260 265 270

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

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Val Lys
290 295 300

Arg Gln Cys Thr Gly Cys Gly Gly Met Val Thr Phe Tyr Ile Lys Gly
305 310 315 320

Thr Leu Gln His Ala Glu Ile Phe Leu Lys Asn Leu Lys Leu Phe Thr
325 330 335

Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Val Glu Leu Pro Ala
340 345 350

Ser Met Thr His Ala Ser Val Leu Lys Lys Asp Arg Asp Val Leu Gly
355 360 365

Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Glu
370 375 380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
385 390 395 400

Ser Gly Ser His Ser
405

<210> 43
<211> 405
<212> PRT
<213> Secuencia artificial

<220>
<223> Polipéptido sintético

<400> 43

Met Gln Glu Lys Asp Ala Ser Ser Gln Gly Phe Leu Pro His Phe Gln
1 5 10 15

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Glu Pro Glu Gln Trp
20 25 30

Thr Ser Arg Ala Val Val Pro Leu Ile Ser Leu Ser Thr Thr Phe Lys
35 40 45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Met Ala Ala Thr Val Thr
85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
100 105 110

Val Tyr Gly Gly Thr Asn Asp Tyr Phe Arg Gln Val Ala Ser Glu Phe
115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
145 150 155 160

Asn Pro Val Leu Lys Met Ile Asp Ile Glu Ala Cys Ala His Ile Val
165 170 175

His Lys Arg Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Cys Met Cys
195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
210 215 220

Val Ser Val Asn Cys Glu Arg Leu His Asn Arg Leu Arg Phe Leu Gln

225		230		235		240
Asn Ser Leu Gly	Ala Val Pro Ser Pro Leu Asp Cys Tyr Leu Cys Asn					
	245		250		255	
Arg Gly Leu Lys Thr Leu His Val Arg Met Glu Arg His Phe Lys Asn						
	260		265		270	
Gly Met Ala Val Ala Gln Phe Leu Glu Ser Asn Pro Gly Val Glu Lys						
	275		280		285	
Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Ala Lys						
	290		295		300	
Arg Gln Cys Thr Gly Cys Gly Gly Met Ile Thr Phe Tyr Ile Lys Gly						
305		310		315		320
Thr Leu Gln His Ala Glu Ile Phe Leu Lys Asn Leu Lys Leu Phe Thr						
	325		330		335	
Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Val Glu Leu Pro Ala						
	340		345		350	
Ser Met Thr His Ala Ser Val Pro Lys Asn Asp Arg Asp Val Leu Gly						
	355		360		365	
Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Lys						
	370		375		380	
Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro						
385		390		395		400
Ser Gly Ser His Asn						
	405					

<210> 44
 <211> 405
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 <213> Secuencia artificial

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<400> 44

Met Gln Glu Lys Asp Ala Ser Ser Gln Gly Phe Leu Pro His Phe Gln
1 5 10 15

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Glu Pro Glu Gln Trp
20 25 30

Thr Ser Arg Ala Val Val Pro Leu Ile Ser Leu Ser Thr Thr Phe Lys
35 40 45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Met Ala Ala Thr Val Thr
85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
100 105 110

Val Tyr Gly Gly Thr Asn His Tyr Phe Arg Gln Val Ala Ser Glu Phe
115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
145 150 155 160

Asn Pro Val Leu Lys Met Ile Asp Ile Glu Ala Cys Ala His Ile Val
165 170 175

His Lys Arg Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Cys Met Cys
195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
210 215 220

Val Ser Val Asn Cys Glu Arg Leu His Asn Arg Leu Arg Phe Leu Gln
225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Leu Asp Cys Tyr Leu Cys Asn
245 250 255

Arg Gly Leu Lys Thr Leu His Val Arg Met Glu Arg His Phe Lys Asn
260 265 270

Gly Met Ala Val Ala Gln Phe Leu Glu Ser Asn Pro Gly Val Glu Lys
275 280 285

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Ala Lys
290 295 300

Arg Gln Cys Thr Gly Cys Gly Gly Met Ile Thr Phe Tyr Ile Lys Gly
305 310 315 320

Thr Leu Gln His Ala Glu Ile Phe Leu Lys Asn Leu Lys Leu Phe Thr
325 330 335

Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Val Glu Leu Pro Ala
340 345 350

Ser Met Thr His Ala Ser Val Pro Lys Asn Asp Arg Asp Val Leu Gly
355 360 365

Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Lys
370 375 380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
385 390 395 400

Ser Gly Ser His Asn
405

<211> 405
<212> PRT
<213> Secuencia artificial

<220>
<223> Polipéptido sintético

<400> 45

Met Gln Glu Lys Asp Ala Ser Ser Gln Gly Phe Leu Pro His Phe Gln
1 5 10 15

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Glu Pro Glu Gln Trp
20 25 30

Thr Ser Arg Ala Val Val Pro Leu Ile Ser Leu Ser Thr Thr Phe Lys
35 40 45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Met Ala Ala Thr Val Thr
85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
100 105 110

Val Tyr Gly Gly Thr Asn Gly Tyr Phe Arg Gln Val Ala Ser Glu Phe
115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
145 150 155 160

Asn Pro Val Leu Lys Met Ile Asp Ile Glu Ala Cys Ala His Ile Val
165 170 175

His Lys Arg Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser

180

185

190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Cys Met Cys
 195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
 210 215 220

Val Ser Val Asn Cys Glu Arg Leu His Asn Arg Leu Arg Phe Leu Gln
 225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Leu Asp Cys Tyr Leu Cys Asn
 245 250 255

Arg Gly Leu Lys Thr Leu His Val Arg Met Glu Arg His Phe Lys Asn
 260 265 270

Gly Met Ala Val Ala Gln Phe Leu Glu Ser Asn Pro Gly Val Glu Lys
 275 280 285

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Ala Lys
 290 295 300

Arg Gln Cys Thr Gly Cys Gly Gly Met Ile Thr Phe Tyr Ile Lys Gly
 305 310 315 320

Thr Leu Gln His Ala Glu Ile Phe Leu Lys Asn Leu Lys Leu Phe Thr
 325 330 335

Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Val Glu Leu Pro Ala
 340 345 350

Ser Met Thr His Ala Ser Val Pro Lys Asn Asp Arg Asp Val Leu Gly
 355 360 365

Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Lys
 370 375 380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
 385 390 395 400

Ser Gly Ser His Asn
405

<210> 46
<211> 405
<212> PRT
<213> Secuencia artificial

<220>
<223> Polipéptido sintético

<400> 46

Met Gln Glu Lys Asp Ala Ser Ser Gln Gly Phe Leu Pro His Phe Gln
1 5 10 15

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Asp Pro Glu Gln Trp
20 25 30

Thr Ser Arg Ala Leu Val Pro Pro Ile Ser Leu Ser Thr Thr Phe Lys
35 40 45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Met Ala Ala Thr Val Thr
85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
100 105 110

Val Tyr Gly Gly Thr Asn Asp Tyr Phe Arg Gln Val Ala Ser Glu Phe
115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
145 150 155 160

Asn Pro Thr Gln Lys Val Ile Asp Ile Glu Ala Cys Ala His Ile Val
165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Cys Met Tyr
195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
210 215 220

Val Ser Val Asn Cys Glu Ser Leu His Asn Arg Leu Arg Phe Leu Gln
225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Ile Asp Cys Tyr Leu Cys Asn
245 250 255

Arg Gly Leu Lys Thr Leu His Val Arg Met Glu Arg His Phe Lys Asn
260 265 270

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

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Val Lys
290 295 300

Arg Gln Cys Thr Gly Cys Gly Gly Met Val Thr Phe Tyr Ile Lys Gly
305 310 315 320

Thr Leu Gln His Ala Glu Ile Phe Leu Lys Asn Leu Lys Leu Phe Thr
325 330 335

Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Ala Glu Leu Pro Ala
340 345 350

Ser Met Thr His Ala Ser Val Leu Lys Asn Asp Arg Asp Val Leu Gly
355 360 365

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

370

375

380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
 385 390 395 400

Ser Gly Ser His Ser
 405

<210> 47

<211> 405

<212> PRT

<213> Secuencia artificial

<220>

<223> Polipéptido sintético

<400> 47

Met Gln Glu Lys Asp Ala Ser Ser Gln Gly Phe Leu Pro His Phe Gln
 1 5 10 15

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Asp Pro Glu Gln Trp
 20 25 30

Thr Ser Arg Ala Leu Val Pro Pro Ile Ser Leu Ser Thr Thr Phe Lys
 35 40 45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
 65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Met Ala Ala Thr Val Thr
 85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
 100 105 110

Val Tyr Gly Gly Thr Asn His Tyr Phe Arg Gln Val Ala Ser Glu Phe
 115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu

130

135

140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
 145 150 155 160

Asn Pro Thr Gln Lys Val Ile Asp Ile Glu Ala Cys Ala His Ile Val
 165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
 180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Cys Met Tyr
 195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
 210 215 220

Val Ser Val Asn Cys Glu Ser Leu His Asn Arg Leu Arg Phe Leu Gln
 225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Ile Asp Cys Tyr Leu Cys Asn
 245 250 255

Arg Gly Leu Lys Thr Leu His Val Arg Met Glu Arg His Phe Lys Asn
 260 265 270

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

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Val Lys
 290 295 300

Arg Gln Cys Thr Gly Cys Gly Gly Met Val Thr Phe Tyr Ile Lys Gly
 305 310 315 320

Thr Leu Gln His Ala Glu Ile Phe Leu Lys Asn Leu Lys Leu Phe Thr
 325 330 335

Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Ala Glu Leu Pro Ala
 340 345 350

Ser Met Thr His Ala Ser Val Leu Lys Asn Asp Arg Asp Val Leu Gly
355 360 365

Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Glu
370 375 380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
385 390 395 400

Ser Gly Ser His Ser
405

<210> 48
<211> 405
<212> PRT
<213> Secuencia artificial

<220>
<223> Polipéptido sintético

<400> 48

Met Gln Glu Lys Asp Ala Ser Ser Gln Gly Phe Leu Pro His Phe Gln
1 5 10 15

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Asp Pro Glu Gln Trp
20 25 30

Thr Ser Arg Ala Leu Val Pro Pro Ile Ser Leu Ser Thr Thr Phe Lys
35 40 45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Met Ala Ala Thr Val Thr
85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
100 105 110

Val Tyr Gly Gly Thr Asn Ala Tyr Phe Arg Gln Val Ala Ser Glu Phe
115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
145 150 155 160

Asn Pro Thr Gln Lys Val Ile Asp Ile Glu Ala Cys Ala His Ile Val
165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Cys Met Tyr
195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
210 215 220

Val Ser Val Asn Cys Glu Ser Leu His Asn Arg Leu Arg Phe Leu Gln
225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Ile Asp Cys Tyr Leu Cys Asn
245 250 255

Arg Gly Leu Lys Thr Leu His Val Arg Met Glu Arg His Phe Lys Asn
260 265 270

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

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Val Lys
290 295 300

Arg Gln Cys Thr Gly Cys Gly Gly Met Val Thr Phe Tyr Ile Lys Gly
305 310 315 320

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

325

330

335

Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Ala Glu Leu Pro Ala
 340 345 350

Ser Met Thr His Ala Ser Val Leu Lys Asn Asp Arg Asp Val Leu Gly
 355 360 365

Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Glu
 370 375 380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
 385 390 395 400

Ser Gly Ser His Ser
 405

<210> 49

<211> 405

<212> PRT

<213> Secuencia artificial

<220>

<223> Polipéptido sintético

<400> 49

Met Gln Glu Lys Asp Ala Ser Ser Gln Gly Phe Leu Pro His Phe Gln
 1 5 10 15

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Asp Pro Glu Gln Trp
 20 25 30

Thr Ser Lys Ala Leu Val Pro Pro Ile Ser Leu Ser Thr Thr Phe Lys
 35 40 45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
 65 70 75 80

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

85

90

95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
 100 105 110

Val Tyr Gly Gly Thr Asn Asp Tyr Phe Arg Gln Val Ala Ser Glu Phe
 115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
 130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
 145 150 155 160

Asn Pro Thr Gln Lys Val Ile Asp Ile Glu Ala Cys Ala His Ile Val
 165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
 180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Cys Met Tyr
 195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Ile Gly Leu
 210 215 220

Val Ser Val Asn Cys Glu Ser Leu His Asn Arg Leu Arg Phe Leu Gln
 225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Ile Asp Cys Tyr Leu Cys Asn
 245 250 255

Arg Gly Leu Lys Thr Leu His Val Arg Met Glu Arg His Phe Lys Asn
 260 265 270

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

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Val Lys
 290 295 300

Arg Gln Cys Thr Gly Cys Gly Gly Met Val Thr Phe Tyr Ile Lys Gly
305 310 315 320

Thr Leu Gln His Ala Glu Ile Phe Leu Lys Asn Leu Lys Leu Phe Thr
325 330 335

Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Ala Glu Leu Pro Ala
340 345 350

Ser Met Thr His Ala Ser Val Leu Lys Asn Asp Arg Asp Val Leu Gly
355 360 365

Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Glu
370 375 380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
385 390 395 400

Ser Gly Ser His Ser
405

<210> 50
<211> 405
<212> PRT
<213> Secuencia artificial

<220>
<223> Polipéptido sintético

<400> 50

Met Gln Glu Lys Asp Ala Ser Ser Gln Gly Phe Leu Pro His Phe Gln
1 5 10 15

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Asp Pro Glu Gln Trp
20 25 30

Thr Ser Lys Ala Leu Val Pro Pro Ile Ser Leu Ser Thr Thr Phe Lys
35 40 45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Met Ala Ala Thr Val Thr
85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
100 105 110

Val Tyr Gly Gly Thr Asn His Tyr Phe Arg Gln Val Ala Ser Glu Phe
115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
145 150 155 160

Asn Pro Thr Gln Lys Val Ile Asp Ile Glu Ala Cys Ala His Ile Val
165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Cys Met Tyr
195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Ile Gly Leu
210 215 220

Val Ser Val Asn Cys Glu Ser Leu His Asn Arg Leu Arg Phe Leu Gln
225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Ile Asp Cys Tyr Leu Cys Asn
245 250 255

Arg Gly Leu Lys Thr Leu His Val Arg Met Glu Arg His Phe Lys Asn
260 265 270

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

275

280

285

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Val Lys
 290 295 300

Arg Gln Cys Thr Gly Cys Gly Gly Met Val Thr Phe Tyr Ile Lys Gly
 305 310 315 320

Thr Leu Gln His Ala Glu Ile Phe Leu Lys Asn Leu Lys Leu Phe Thr
 325 330 335

Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Ala Glu Leu Pro Ala
 340 345 350

Ser Met Thr His Ala Ser Val Leu Lys Asn Asp Arg Asp Val Leu Gly
 355 360 365

Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Glu
 370 375 380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
 385 390 395 400

Ser Gly Ser His Ser
 405

<210> 51

<211> 405

<212> PRT

<213> Secuencia artificial

<220>

<223> Polipéptido sintético

<400> 51

Met Gln Glu Lys Asp Ala Ser Ser Gln Gly Phe Leu Pro His Phe Gln
 1 5 10 15

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Asp Pro Glu Gln Trp
 20 25 30

Thr Ser Lys Ala Leu Val Pro Pro Ile Ser Leu Ser Thr Thr Phe Lys

35

40

45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
 65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Met Ala Ala Thr Val Thr
 85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
 100 105 110

Val Tyr Gly Gly Thr Asn Gly Tyr Phe Arg Gln Val Ala Ser Glu Phe
 115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
 130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
 145 150 155 160

Asn Pro Thr Gln Lys Val Ile Asp Ile Glu Ala Cys Ala His Ile Val
 165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
 180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Cys Met Tyr
 195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Ile Gly Leu
 210 215 220

Val Ser Val Asn Cys Glu Ser Leu His Asn Arg Leu Arg Phe Leu Gln
 225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Ile Asp Cys Tyr Leu Cys Asn
 245 250 255

Arg Gly Leu Lys Thr Leu His Val Arg Met Glu Arg His Phe Lys Asn
260 265 270

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

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Val Lys
290 295 300

Arg Gln Cys Thr Gly Cys Gly Gly Met Val Thr Phe Tyr Ile Lys Gly
305 310 315 320

Thr Leu Gln His Ala Glu Ile Phe Leu Lys Asn Leu Lys Leu Phe Thr
325 330 335

Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Ala Glu Leu Pro Ala
340 345 350

Ser Met Thr His Ala Ser Val Leu Lys Asn Asp Arg Asp Val Leu Gly
355 360 365

Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Glu
370 375 380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
385 390 395 400

Ser Gly Ser His Ser
405

<210> 52
<211> 405
<212> PRT
<213> Secuencia artificial

<220>
<223> Polipéptido sintético

<400> 52

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

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Glu Pro Glu Gln Trp
20 25 30

Thr Ser Arg Ala Val Val Pro Pro Ile Ser Pro Ser Val Thr Phe Lys
35 40 45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Met Ala Ala Thr Val Thr
85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
100 105 110

Val Tyr Ala Gly Thr Asn Asp Tyr Phe Arg Gln Val Ala Ser Glu Phe
115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
145 150 155 160

Asn Pro Thr Gln Lys Met Thr Asp Ile Glu Ala Cys Ala His Ile Val
165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Cys Met Cys
195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
210 215 220

Val Ser Val Asn Cys Glu Ser Leu Tyr Asn Arg Leu Arg Phe Leu Gln

225		230		235		240
Asn Ser Leu Gly	Ala Val Pro Ser Pro	Ile Asp Cys Tyr	Leu Cys Asn			
	245	250	255			
Arg Gly Leu Lys	Thr Leu Gln Val	Arg Met Glu Arg	His Phe Lys Asn			
	260	265	270			
Gly Met Ala Val	Ala Gln Phe Leu	Glu Ser Asn Pro	Trp Val Glu Lys			
	275	280	285			
Val Ile Tyr Pro	Gly Leu Pro Ser	His Pro Gln His	Glu Leu Val Lys			
	290	295	300			
Arg Gln Cys Thr	Gly Cys Gly Gly	Met Val Thr Phe	Tyr Ile Lys Gly			
305	310	315	320			
Thr Leu Gln His	Ala Glu Ile Phe	Leu Lys Asn Leu	Lys Leu Phe Thr			
	325	330	335			
Leu Ala Val Ser	Leu Gly Gly Phe	Glu Ser Leu Val	Glu Leu Pro Ala			
	340	345	350			
Ser Met Thr His	Ala Ser Val Leu	Lys Lys Asp Arg	Asp Val Leu Gly			
	355	360	365			
Ile Ser Asp Thr	Leu Ile Arg Leu	Ser Val Gly Leu	Glu Asp Glu Glu			
	370	375	380			
Asp Leu Leu Glu	Asp Leu Asp Gln	Ala Leu Lys Ala	Ala His Pro Pro			
385	390	395	400			
Ser Gly Ser His	Ser					
	405					

<210> 53
 <211> 405
 <212> PRT
 <213> Secuencia artificial

 <220>
 <223> Polipéptido sintético

<400> 53

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

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Glu Pro Glu Gln Trp
20 25 30

Thr Ser Arg Ala Val Val Pro Pro Ile Ser Pro Ser Val Thr Phe Lys
35 40 45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Met Ala Ala Thr Val Thr
85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
100 105 110

Val Tyr Ala Gly Thr Asn His Tyr Phe Arg Gln Val Ala Ser Glu Phe
115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
145 150 155 160

Asn Pro Thr Gln Lys Met Thr Asp Ile Glu Ala Cys Ala His Ile Val
165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Cys Met Cys
195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
210 215 220

Val Ser Val Asn Cys Glu Ser Leu Tyr Asn Arg Leu Arg Phe Leu Gln
225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Ile Asp Cys Tyr Leu Cys Asn
245 250 255

Arg Gly Leu Lys Thr Leu Gln Val Arg Met Glu Arg His Phe Lys Asn
260 265 270

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

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Val Lys
290 295 300

Arg Gln Cys Thr Gly Cys Gly Gly Met Val Thr Phe Tyr Ile Lys Gly
305 310 315 320

Thr Leu Gln His Ala Glu Ile Phe Leu Lys Asn Leu Lys Leu Phe Thr
325 330 335

Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Val Glu Leu Pro Ala
340 345 350

Ser Met Thr His Ala Ser Val Leu Lys Lys Asp Arg Asp Val Leu Gly
355 360 365

Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Glu
370 375 380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
385 390 395 400

Ser Gly Ser His Ser
405

<211> 405
<212> PRT
<213> Secuencia artificial

<220>
<223> Polipéptido sintético

<400> 54

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

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Glu Pro Glu Gln Trp
20 25 30

Thr Ser Arg Ala Val Val Pro Pro Ile Ser Pro Ser Val Thr Phe Lys
35 40 45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Met Ala Ala Thr Val Thr
85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
100 105 110

Val Tyr Ala Gly Thr Asn Gly Tyr Phe Arg Gln Val Ala Ser Glu Phe
115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
145 150 155 160

Asn Pro Thr Gln Lys Met Thr Asp Ile Glu Ala Cys Ala His Ile Val
165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser

180

185

190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Cys Met Cys
 195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
 210 215 220

Val Ser Val Asn Cys Glu Ser Leu Tyr Asn Arg Leu Arg Phe Leu Gln
 225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Ile Asp Cys Tyr Leu Cys Asn
 245 250 255

Arg Gly Leu Lys Thr Leu Gln Val Arg Met Glu Arg His Phe Lys Asn
 260 265 270

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

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Val Lys
 290 295 300

Arg Gln Cys Thr Gly Cys Gly Gly Met Val Thr Phe Tyr Ile Lys Gly
 305 310 315 320

Thr Leu Gln His Ala Glu Ile Phe Leu Lys Asn Leu Lys Leu Phe Thr
 325 330 335

Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Val Glu Leu Pro Ala
 340 345 350

Ser Met Thr His Ala Ser Val Leu Lys Lys Asp Arg Asp Val Leu Gly
 355 360 365

Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Glu
 370 375 380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
 385 390 395 400

Ser Gly Ser His Ser
405

<210> 55
<211> 405
<212> PRT
<213> Secuencia artificial

<220>
<223> Polipéptido sintético

<400> 55

Met Gln Glu Lys Asp Ala Ser Ser Gln Gly Phe Leu Pro His Phe Gln
1 5 10 15

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Glu Pro Glu Gln Trp
20 25 30

Thr Ser Arg Ala Val Val Pro Leu Ile Ser Leu Ser Thr Thr Phe Lys
35 40 45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Met Ala Ala Thr Val Thr
85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
100 105 110

Val Tyr Gly Gly Thr Asn Asp Tyr Phe Arg Gln Val Ala Ser Glu Phe
115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
145 150 155 160

Asn Pro Val Leu Lys Met Ile Asp Ile Glu Ala Cys Ala His Ile Val
165 170 175

His Lys Arg Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Cys Met Cys
195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
210 215 220

Val Ser Val Asn Cys Glu Arg Leu His Asn Arg Leu Arg Phe Leu Gln
225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Leu Asp Cys Tyr Leu Cys Asn
245 250 255

Arg Gly Leu Lys Thr Leu His Val Arg Met Glu Arg His Phe Lys Asn
260 265 270

Gly Met Ala Val Ala Gln Phe Leu Glu Ser Asn Pro Gly Val Glu Lys
275 280 285

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Ala Lys
290 295 300

Arg Gln Cys Thr Gly Cys Gly Gly Met Ile Thr Phe Tyr Ile Lys Gly
305 310 315 320

Thr Leu Gln His Ala Glu Ile Phe Leu Lys Asn Leu Lys Leu Phe Thr
325 330 335

Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Val Glu Leu Pro Ala
340 345 350

Ser Met Thr His Ala Ser Val Pro Lys Asn Asp Arg Asp Val Leu Gly
355 360 365

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

370

375

380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
 385 390 395 400

Ser Gly Ser His Asn
 405

<210> 56

<211> 405

<212> PRT

<213> Secuencia artificial

<220>

<223> Polipéptido sintético

<400> 56

Met Gln Glu Lys Asp Ala Ser Ser Gln Gly Phe Leu Pro His Phe Gln
 1 5 10 15

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Glu Pro Glu Gln Trp
 20 25 30

Thr Ser Arg Ala Val Val Pro Leu Ile Ser Leu Ser Thr Thr Phe Lys
 35 40 45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
 65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Met Ala Ala Thr Val Thr
 85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
 100 105 110

Val Tyr Gly Gly Thr Asn His Tyr Phe Arg Gln Val Ala Ser Glu Phe
 115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu

130

135

140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
 145 150 155 160

Asn Pro Val Leu Lys Met Ile Asp Ile Glu Ala Cys Ala His Ile Val
 165 170 175

His Lys Arg Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
 180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Cys Met Cys
 195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
 210 215 220

Val Ser Val Asn Cys Glu Arg Leu His Asn Arg Leu Arg Phe Leu Gln
 225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Leu Asp Cys Tyr Leu Cys Asn
 245 250 255

Arg Gly Leu Lys Thr Leu His Val Arg Met Glu Arg His Phe Lys Asn
 260 265 270

Gly Met Ala Val Ala Gln Phe Leu Glu Ser Asn Pro Gly Val Glu Lys
 275 280 285

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Ala Lys
 290 295 300

Arg Gln Cys Thr Gly Cys Gly Gly Met Ile Thr Phe Tyr Ile Lys Gly
 305 310 315 320

Thr Leu Gln His Ala Glu Ile Phe Leu Lys Asn Leu Lys Leu Phe Thr
 325 330 335

Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Val Glu Leu Pro Ala
 340 345 350

Ser Met Thr His Ala Ser Val Pro Lys Asn Asp Arg Asp Val Leu Gly
355 360 365

Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Lys
370 375 380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
385 390 395 400

Ser Gly Ser His Asn
405

<210> 57
<211> 405
<212> PRT
<213> Secuencia artificial

<220>
<223> Polipéptido sintético

<400> 57

Met Gln Glu Lys Asp Ala Ser Ser Gln Gly Phe Leu Pro His Phe Gln
1 5 10 15

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Glu Pro Glu Gln Trp
20 25 30

Thr Ser Arg Ala Val Val Pro Leu Ile Ser Leu Ser Thr Thr Phe Lys
35 40 45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Met Ala Ala Thr Val Thr
85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
100 105 110

Val Tyr Gly Gly Thr Asn Ala Tyr Phe Arg Gln Val Ala Ser Glu Phe
115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
145 150 155 160

Asn Pro Val Leu Lys Met Ile Asp Ile Glu Ala Cys Ala His Ile Val
165 170 175

His Lys Arg Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Cys Met Cys
195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
210 215 220

Val Ser Val Asn Cys Glu Arg Leu His Asn Arg Leu Arg Phe Leu Gln
225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Leu Asp Cys Tyr Leu Cys Asn
245 250 255

Arg Gly Leu Lys Thr Leu His Val Arg Met Glu Arg His Phe Lys Asn
260 265 270

Gly Met Ala Val Ala Gln Phe Leu Glu Ser Asn Pro Gly Val Glu Lys
275 280 285

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Ala Lys
290 295 300

Arg Gln Cys Thr Gly Cys Gly Gly Met Ile Thr Phe Tyr Ile Lys Gly
305 310 315 320

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

325

330

335

Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Val Glu Leu Pro Ala
 340 345 350

Ser Met Thr His Ala Ser Val Pro Lys Asn Asp Arg Asp Val Leu Gly
 355 360 365

Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Lys
 370 375 380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
 385 390 395 400

Ser Gly Ser His Asn
 405

<210> 58

<211> 405

<212> PRT

<213> Secuencia artificial

<220>

<223> Polipéptido sintético

<400> 58

Met Gln Glu Lys Asp Ala Ser Ser Gln Gly Phe Leu Pro His Phe Gln
 1 5 10 15

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Asp Pro Glu Gln Trp
 20 25 30

Thr Ser Arg Ala Leu Val Pro Pro Ile Ser Leu Ser Thr Thr Phe Lys
 35 40 45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
 65 70 75 80

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

85

90

95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
 100 105 110

Val Tyr Gly Gly Thr Asn Asp Tyr Phe Arg Gln Val Ala Ser Glu Phe
 115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
 130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
 145 150 155 160

Asn Pro Thr Gln Lys Val Ile Asp Ile Glu Ala Cys Ala His Ile Val
 165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
 180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Cys Met Tyr
 195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
 210 215 220

Val Ser Val Asn Cys Glu Ser Leu His Asn Arg Leu Arg Phe Leu Gln
 225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Ile Asp Cys Tyr Leu Cys Asn
 245 250 255

Arg Gly Leu Lys Thr Leu His Val Arg Met Glu Arg His Phe Lys Asn
 260 265 270

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

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Val Lys
 290 295 300

Arg Gln Cys Thr Gly Cys Gly Gly Met Val Thr Phe Tyr Ile Lys Gly
305 310 315 320

Thr Leu Gln His Ala Glu Ile Phe Leu Lys Asn Leu Lys Leu Phe Thr
325 330 335

Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Ala Glu Leu Pro Ala
340 345 350

Ser Met Thr His Ala Ser Val Leu Lys Asn Asp Arg Asp Val Leu Gly
355 360 365

Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Glu
370 375 380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
385 390 395 400

Ser Gly Ser His Ser
405

<210> 59
<211> 405
<212> PRT
<213> Secuencia artificial

<220>
<223> Polipéptido sintético

<400> 59

Met Gln Glu Lys Asp Ala Ser Ser Gln Gly Phe Leu Pro His Phe Gln
1 5 10 15

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Asp Pro Glu Gln Trp
20 25 30

Thr Ser Arg Ala Leu Val Pro Pro Ile Ser Leu Ser Thr Thr Phe Lys
35 40 45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Met Ala Ala Thr Val Thr
85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
100 105 110

Val Tyr Gly Gly Thr Asn His Tyr Phe Arg Gln Val Ala Ser Glu Phe
115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
145 150 155 160

Asn Pro Thr Gln Lys Val Ile Asp Ile Glu Ala Cys Ala His Ile Val
165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Cys Met Tyr
195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
210 215 220

Val Ser Val Asn Cys Glu Ser Leu His Asn Arg Leu Arg Phe Leu Gln
225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Ile Asp Cys Tyr Leu Cys Asn
245 250 255

Arg Gly Leu Lys Thr Leu His Val Arg Met Glu Arg His Phe Lys Asn
260 265 270

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

275

280

285

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Val Lys
 290 295 300

Arg Gln Cys Thr Gly Cys Gly Gly Met Val Thr Phe Tyr Ile Lys Gly
 305 310 315 320

Thr Leu Gln His Ala Glu Ile Phe Leu Lys Asn Leu Lys Leu Phe Thr
 325 330 335

Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Ala Glu Leu Pro Ala
 340 345 350

Ser Met Thr His Ala Ser Val Leu Lys Asn Asp Arg Asp Val Leu Gly
 355 360 365

Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Glu
 370 375 380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
 385 390 395 400

Ser Gly Ser His Ser
 405

<210> 60

<211> 405

<212> PRT

<213> Secuencia artificial

<220>

<223> Polipéptido sintético

<400> 60

Met Gln Glu Lys Asp Ala Ser Ser Gln Gly Phe Leu Pro His Phe Gln
 1 5 10 15

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Asp Pro Glu Gln Trp
 20 25 30

Thr Ser Arg Ala Leu Val Pro Pro Ile Ser Leu Ser Thr Thr Phe Lys

35

40

45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
 65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Met Ala Ala Thr Val Thr
 85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
 100 105 110

Val Tyr Gly Gly Thr Asn Gly Tyr Phe Arg Gln Val Ala Ser Glu Phe
 115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
 130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
 145 150 155 160

Asn Pro Thr Gln Lys Val Ile Asp Ile Glu Ala Cys Ala His Ile Val
 165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
 180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Cys Met Tyr
 195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Met Gly Leu
 210 215 220

Val Ser Val Asn Cys Glu Ser Leu His Asn Arg Leu Arg Phe Leu Gln
 225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Ile Asp Cys Tyr Leu Cys Asn
 245 250 255

Arg Gly Leu Lys Thr Leu His Val Arg Met Glu Arg His Phe Lys Asn
260 265 270

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

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Val Lys
290 295 300

Arg Gln Cys Thr Gly Cys Gly Gly Met Val Thr Phe Tyr Ile Lys Gly
305 310 315 320

Thr Leu Gln His Ala Glu Ile Phe Leu Lys Asn Leu Lys Leu Phe Thr
325 330 335

Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Ala Glu Leu Pro Ala
340 345 350

Ser Met Thr His Ala Ser Val Leu Lys Asn Asp Arg Asp Val Leu Gly
355 360 365

Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Glu
370 375 380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
385 390 395 400

Ser Gly Ser His Ser
405

<210> 61
<211> 405
<212> PRT
<213> Secuencia artificial

<220>
<223> Polipéptido sintético

<400> 61

Met Gln Glu Lys Asp Ala Ser Ser Gln Gly Phe Leu Pro His Phe Gln
1 5 10 15

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Asp Pro Glu Gln Trp
20 25 30

Thr Ser Lys Ala Leu Val Pro Pro Ile Ser Leu Ser Thr Thr Phe Lys
35 40 45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Met Ala Ala Thr Val Thr
85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
100 105 110

Val Tyr Gly Gly Thr Asn Asp Tyr Phe Arg Gln Val Ala Ser Glu Phe
115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
145 150 155 160

Asn Pro Thr Gln Lys Val Ile Asp Ile Glu Ala Cys Ala His Ile Val
165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Cys Met Tyr
195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Ile Gly Leu
210 215 220

Val Ser Val Asn Cys Glu Ser Leu His Asn Arg Leu Arg Phe Leu Gln

225		230		235		240
Asn Ser Leu Gly	Ala Val Pro Ser Pro	Ile Asp Cys Tyr	Leu Cys Asn			
	245	250	255			
Arg Gly Leu Lys	Thr Leu His Val	Arg Met Glu Arg	His Phe Lys Asn			
	260	265	270			
Gly Met Ala Val	Ala Gln Phe Leu	Glu Ser Asn Pro	Trp Val Glu Lys			
	275	280	285			
Val Ile Tyr Pro	Gly Leu Pro Ser	His Pro Gln His	Glu Leu Val Lys			
	290	295	300			
Arg Gln Cys Thr	Gly Cys Gly Gly	Met Val Thr Phe	Tyr Ile Lys Gly			
305	310	315	320			
Thr Leu Gln His	Ala Glu Ile Phe	Leu Lys Asn Leu	Lys Leu Phe Thr			
	325	330	335			
Leu Ala Val Ser	Leu Gly Gly Phe	Glu Ser Leu Ala	Glu Leu Pro Ala			
	340	345	350			
Ser Met Thr His	Ala Ser Val Leu	Lys Asn Asp Arg	Asp Val Leu Gly			
	355	360	365			
Ile Ser Asp Thr	Leu Ile Arg Leu	Ser Val Gly Leu	Glu Asp Glu Glu			
	370	375	380			
Asp Leu Leu Glu	Asp Leu Asp Gln	Ala Leu Lys Ala	Ala His Pro Pro			
385	390	395	400			
Ser Gly Ser His	Ser					
	405					

<210> 62
 <211> 405
 <212> PRT
 <213> Secuencia artificial

 <220>
 <223> Polipéptido sintético

<400> 62

Met Gln Glu Lys Asp Ala Ser Ser Gln Gly Phe Leu Pro His Phe Gln
1 5 10 15

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Asp Pro Glu Gln Trp
20 25 30

Thr Ser Lys Ala Leu Val Pro Pro Ile Ser Leu Ser Thr Thr Phe Lys
35 40 45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Met Ala Ala Thr Val Thr
85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
100 105 110

Val Tyr Gly Gly Thr Asn His Tyr Phe Arg Gln Val Ala Ser Glu Phe
115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
145 150 155 160

Asn Pro Thr Gln Lys Val Ile Asp Ile Glu Ala Cys Ala His Ile Val
165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser
180 185 190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Cys Met Tyr
195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Ile Gly Leu
210 215 220

Val Ser Val Asn Cys Glu Ser Leu His Asn Arg Leu Arg Phe Leu Gln
225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Ile Asp Cys Tyr Leu Cys Asn
245 250 255

Arg Gly Leu Lys Thr Leu His Val Arg Met Glu Arg His Phe Lys Asn
260 265 270

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

Val Ile Tyr Pro Gly Leu Pro Ser His Pro Gln His Glu Leu Val Lys
290 295 300

Arg Gln Cys Thr Gly Cys Gly Gly Met Val Thr Phe Tyr Ile Lys Gly
305 310 315 320

Thr Leu Gln His Ala Glu Ile Phe Leu Lys Asn Leu Lys Leu Phe Thr
325 330 335

Leu Ala Val Ser Leu Gly Gly Phe Glu Ser Leu Ala Glu Leu Pro Ala
340 345 350

Ser Met Thr His Ala Ser Val Leu Lys Asn Asp Arg Asp Val Leu Gly
355 360 365

Ile Ser Asp Thr Leu Ile Arg Leu Ser Val Gly Leu Glu Asp Glu Glu
370 375 380

Asp Leu Leu Glu Asp Leu Asp Gln Ala Leu Lys Ala Ala His Pro Pro
385 390 395 400

Ser Gly Ser His Ser
405

<211> 405
<212> PRT
<213> Secuencia artificial

<220>
<223> Polipéptido sintético

<400> 63

Met Gln Glu Lys Asp Ala Ser Ser Gln Gly Phe Leu Pro His Phe Gln
1 5 10 15

His Phe Ala Thr Gln Ala Ile His Val Gly Gln Asp Pro Glu Gln Trp
20 25 30

Thr Ser Lys Ala Leu Val Pro Pro Ile Ser Leu Ser Thr Thr Phe Lys
35 40 45

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

Asn Pro Thr Arg Asn Cys Leu Glu Lys Ala Val Ala Ala Leu Asp Gly
65 70 75 80

Ala Lys Tyr Cys Leu Ala Phe Ala Ser Gly Met Ala Ala Thr Val Thr
85 90 95

Ile Thr His Leu Leu Lys Ala Gly Asp Gln Ile Ile Cys Met Asp Asp
100 105 110

Val Tyr Gly Gly Thr Asn Ala Tyr Phe Arg Gln Val Ala Ser Glu Phe
115 120 125

Gly Leu Lys Ile Ser Phe Val Asp Cys Ser Lys Ile Lys Leu Leu Glu
130 135 140

Ala Ala Ile Thr Pro Glu Thr Lys Leu Val Trp Ile Glu Thr Pro Thr
145 150 155 160

Asn Pro Thr Gln Lys Val Ile Asp Ile Glu Ala Cys Ala His Ile Val
165 170 175

His Lys His Gly Asp Ile Ile Leu Val Val Asp Asn Thr Phe Met Ser

180

185

190

Pro Tyr Phe Gln Arg Pro Leu Ala Leu Gly Ala Asp Ile Cys Met Tyr
 195 200 205

Ser Ala Thr Lys Tyr Met Asn Gly His Ser Asp Val Val Ile Gly Leu
 210 215 220

Val Ser Val Asn Cys Glu Ser Leu His Asn Arg Leu Arg Phe Leu Gln
 225 230 235 240

Asn Ser Leu Gly Ala Val Pro Ser Pro Ile Asp Cys Tyr Leu Cys Asn
 245 250 255

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