

P-2019-28332-LISTADO SECUENCIAS ESPANOL.txt
LISTADO DE SECUENCIAS

<110> SCHOLAR ROCK, INC.

<120> INHIBIDORES DE TGFβ1 ISOFORMA-ESPECÍFICOS CONTEXTO-PERMISSIVOS Y USO DE LOS MISMOS

<130> 127036-02020

<140> Aún No Asignado
<141> 2018-01-05

<150> US 62/443,615
<151> 2017-01-06

<150> US 62/452,866
<151> 2017-01-31

<150> US 62/514,417
<151> 2017-06-02

<150> US 62/529,616
<151> 2017-07-07

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<151> 2017-08-24

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<151> 2017-09-13

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<151> 2017-11-13

<150> US 62/587,964
<151> 2017-11-17

<150> US 62/588,626
<151> 2017-11-20

<160> 101

<170> PatentIn version 3.5

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Gly

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

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

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

Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val
 50 55 60

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

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

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

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
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Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys
 1 5 10 15

Thr Val Thr Ile Ser Cys Thr Gly Ser Ser Gly Ser Ile Ala Ser Asn
 20 25 30

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

Ile Phe Glu Asp Asn Gln Arg Pro Ser Gly Ala Pro Asp Arg Phe Ser
 50 55 60

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

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

Ser Asn His Gly Gly Val Phe Gly Gly Gly Thr Gln Leu Thr Val Leu
 100 105 110

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1 5 10 15

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

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

Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val
50 55 60

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

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

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

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly
115 120 125

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

Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val
145 150 155 160

Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe
165 170 175

Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val
180 185 190

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

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

Tyr Gly Pro Pro Cys Pro Pro Cys Pro Ala Pro Glu Phe Leu Gly Gly
225 230 235 240

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

Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser Gln Glu
260 265 270

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

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

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

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

Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr
340 345 350

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

Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
370 375 380

Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val
385 390 395 400

Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp
405 410 415

Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser Cys Ser Val Met His
420 425 430

Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu
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Gly

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

Thr Val Thr Ile Ser Cys Thr Gly Ser Ser Gly Ser Ile Ala Ser Asn
20 25 30

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

Ile Phe Glu Asp Asn Gln Arg Pro Ser Gly Ala Pro Asp Arg Phe Ser
50 55 60

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

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

Ser Asn His Gly Gly Val Phe Gly Gly Gly Thr Gln Leu Thr Val Leu
100 105 110

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

Glu Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp
130 135 140

Phe Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro
145 150 155 160

Val Lys Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn
165 170 175

Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys
180 185 190

Ser His Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val
195 200 205

Glu Lys Thr Val Ala Pro Thr Glu Cys Ser
210 215

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

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

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

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

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

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

Ala Ser Ala Ala Gly Ile Ala Ala Ala Gly His Val Thr Ala Phe Asp
100 105 110

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

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

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

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

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

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

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

Lys

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

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

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

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

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

Ala Ser Ala Ala Gly Ile Ala Ala Ala Gly His Val Thr Ala Phe Asp
100 105 110

Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Ala Ser Thr Lys
115 120 125

Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg Ser Thr Ser Glu
 130 135 140
 Ser Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro
 145 150 155 160
 Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr
 165 170 175
 Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val
 180 185 190
 Val Thr Val Pro Ser Ser Ser Leu Gly Thr Lys Thr Tyr Thr Cys Asn
 195 200 205
 Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys Arg Val Glu Ser
 210 215 220
 Lys Tyr Gly Pro Pro Cys Pro Pro Cys Pro Ala Pro Glu Phe Leu Gly
 225 230 235 240
 Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met
 245 250 255
 Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser Gln
 260 265 270
 Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly Val Glu Val
 275 280 285
 His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser Thr Tyr
 290 295 300
 Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly
 305 310 315 320
 Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro Ser Ser Ile
 325 330 335
 Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val
 340 345 350
 Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys Asn Gln Val Ser
 355 360 365
 Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu
 370 375 380
 Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro
 385 390 395 400
 Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Arg Leu Thr Val
 405 410 415
 Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser Cys Ser Val Met
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 His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser
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 Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly
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 Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Val Leu Tyr Ser
 20 25 30

Ser Asn Asn Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
 35 40 45
 Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
 50 55 60
 Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
 65 70 75 80
 Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Gln Gln
 85 90 95
 Tyr Tyr Ser Thr Pro Val Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile
 100 105 110
 Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp
 115 120 125
 Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn
 130 135 140
 Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu
 145 150 155 160
 Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp
 165 170 175
 Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr
 180 185 190
 Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser
 195 200 205
 Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
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 Ile Glu Ala Ile Arg Gly Gln Ile Leu Ser Lys Leu Arg Leu Ala Ser
 20 25 30
 Pro Pro Ser Gln Gly Glu Val Pro Pro Gly Pro Leu Pro Glu Ala Val
 35 40 45
 Leu Ala Leu Tyr Asn Ser Thr Arg Asp Arg Val Ala Gly Glu Ser Ala
 50 55 60
 Glu Pro Glu Pro Glu Pro Glu Ala Asp Tyr Tyr Ala Lys Glu Val Thr
 65 70 75 80
 Arg Val Leu Met Val Glu Thr His Asn Glu Ile Tyr Asp Lys Phe Lys
 85 90 95
 Gln Ser Thr His Ser Ile Tyr Met Phe Phe Asn Thr Ser Glu Leu Arg
 100 105 110
 Glu Ala Val Pro Glu Pro Val Leu Leu Ser Arg Ala Glu Leu Arg Leu
 115 120 125
 Leu Arg Leu Lys Leu Lys Val Glu Gln His Val Glu Leu Tyr Gln Lys
 130 135 140
 Tyr Ser Asn Asn Ser Trp Arg Tyr Leu Ser Asn Arg Leu Leu Ala Pro
 145 150 155 160
 Ser Asp Ser Pro Glu Trp Leu Ser Phe Asp Val Thr Gly Val Val Arg
 165 170 175

Gln Trp Leu Ser Arg Gly Gly Glu Ile Glu Gly Phe Arg Leu Ser Ala
180 185 190

His Cys Ser Cys Asp Ser Arg Asp Asn Thr Leu Gln Val Asp Ile Asn
195 200 205

Gly Phe Thr Thr Gly Arg Arg Gly Asp Leu Ala Thr Ile His Gly Met
210 215 220

Asn Arg Pro Phe Leu Leu Met Ala Thr Pro Leu Glu Arg Ala Gln
225 230 235 240

His Leu Gln Ser Ser Arg His Arg Arg Ala Leu Asp Thr Asn Tyr Cys
245 250 255

Phe Ser Ser Thr Glu Lys Asn Cys Cys Val Arg Gln Leu Tyr Ile Asp
260 265 270

Phe Arg Lys Asp Leu Gly Trp Lys Trp Ile His Glu Pro Lys Gly Tyr
275 280 285

His Ala Asn Phe Cys Leu Gly Pro Cys Pro Tyr Ile Trp Ser Leu Asp
290 295 300

Thr Gln Tyr Ser Lys Val Leu Ala Leu Tyr Asn Gln His Asn Pro Gly
305 310 315 320

Ala Ser Ala Ala Pro Cys Cys Val Pro Gln Ala Leu Glu Pro Leu Pro
325 330 335

Ile Val Tyr Tyr Val Gly Arg Lys Pro Lys Val Glu Gln Leu Ser Asn
340 345 350

Met Ile Val Arg Ser Cys Lys Cys Ser
355 360

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Ser Leu Ser Thr Cys Ser Thr Leu Asp Met Asp Gln Phe Met Arg Lys
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Arg Ile Glu Ala Ile Arg Gly Gln Ile Leu Ser Lys Leu Lys Leu Thr
20 25 30

Ser Pro Pro Glu Asp Tyr Pro Glu Pro Glu Glu Val Pro Pro Glu Val
35 40 45

Ile Ser Ile Tyr Asn Ser Thr Arg Asp Leu Leu Gln Glu Lys Ala Ser
50 55 60

Arg Arg Ala Ala Ala Cys Glu Arg Glu Arg Ser Asp Glu Glu Tyr Tyr
65 70 75 80

Ala Lys Glu Val Tyr Lys Ile Asp Met Pro Pro Phe Phe Pro Ser Glu
85 90 95

Asn Ala Ile Pro Pro Thr Phe Tyr Arg Pro Tyr Phe Arg Ile Val Arg
100 105 110

Phe Asp Val Ser Ala Met Glu Lys Asn Ala Ser Asn Leu Val Lys Ala
115 120 125

Glu Phe Arg Val Phe Arg Leu Gln Asn Pro Lys Ala Arg Val Pro Glu
130 135 140

Gln Arg Ile Glu Leu Tyr Gln Ile Leu Lys Ser Lys Asp Leu Thr Ser
145 150 155 160

Pro Thr Gln Arg Tyr Ile Asp Ser Lys Val Val Lys Thr Arg Ala Glu
165 170 175

Gly Glu Trp Leu Ser Phe Asp Val Thr Asp Ala Val His Glu Trp Leu

180

185

190

His His Lys Asp Arg Asn Leu Gly Phe Lys Ile Ser Leu His Cys Pro
 195 200 205

Cys Cys Thr Phe Val Pro Ser Asn Asn Tyr Ile Ile Pro Asn Lys Ser
 210 215 220

Glu Glu Leu Glu Ala Arg Phe Ala Gly Ile Asp Gly Thr Ser Thr Tyr
 225 230 235 240

Thr Ser Gly Asp Gln Lys Thr Ile Lys Ser Thr Arg Lys Lys Asn Ser
 245 250 255

Gly Lys Thr Pro His Leu Leu Leu Met Leu Leu Pro Ser Tyr Arg Leu
 260 265 270

Glu Ser Gln Gln Thr Asn Arg Arg Lys Lys Arg Ala Leu Asp Ala Ala
 275 280 285

Tyr Cys Phe Arg Asn Val Gln Asp Asn Cys Cys Leu Arg Pro Leu Tyr
 290 295 300

Ile Asp Phe Lys Arg Asp Leu Gly Trp Lys Trp Ile His Glu Pro Lys
 305 310 315 320

Gly Tyr Asn Ala Asn Phe Cys Ala Gly Ala Cys Pro Tyr Leu Trp Ser
 325 330 335

Ser Asp Thr Gln His Ser Arg Val Leu Ser Leu Tyr Asn Thr Ile Asn
 340 345 350

Pro Glu Ala Ser Ala Ser Pro Cys Cys Val Ser Gln Asp Leu Glu Pro
 355 360 365

Leu Thr Ile Leu Tyr Tyr Ile Gly Lys Thr Pro Lys Ile Glu Gln Leu
 370 375 380

Ser Asn Met Ile Val Lys Ser Cys Lys Cys Ser
 385 390 395

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Ser Leu Ser Leu Ser Thr Cys Thr Thr Leu Asp Phe Gly His Ile Lys
 1 5 10 15

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

Leu Thr Ser Pro Pro Glu Pro Thr Val Met Thr His Val Pro Tyr Gln
 35 40 45

Val Leu Ala Leu Tyr Asn Ser Thr Arg Glu Leu Leu Glu Glu Met His
 50 55 60

Gly Glu Arg Glu Glu Gly Cys Thr Gln Glu Asn Thr Glu Ser Glu Tyr
 65 70 75 80

Tyr Ala Lys Glu Ile His Lys Phe Asp Met Ile Gln Gly Leu Ala Glu
 85 90 95

His Asn Glu Leu Ala Val Cys Pro Lys Gly Ile Thr Ser Lys Val Phe
 100 105 110

Arg Phe Asn Val Ser Ser Val Glu Lys Asn Arg Thr Asn Leu Phe Arg
 115 120 125

Ala Glu Phe Arg Val Leu Arg Val Pro Asn Pro Ser Ser Lys Arg Asn
 130 135 140

Glu Gln Arg Ile Glu Leu Phe Gln Ile Leu Arg Pro Asp Glu His Ile
 145 150 155 160

Ala Lys Gln Arg Tyr Ile Gly Gly Lys Asn Leu Pro Thr Arg Gly Thr
165 170 175

Ala Glu Trp Leu Ser Phe Asp Val Thr Asp Thr Val Arg Glu Trp Leu
180 185 190

Leu Arg Arg Glu Ser Asn Leu Gly Leu Glu Ile Ser Ile His Cys Pro
195 200 205

Cys His Thr Phe Gln Pro Asn Gly Asp Ile Leu Glu Asn Ile His Glu
210 215 220

Val Met Glu Ile Lys Phe Lys Gly Val Asp Asn Glu Asp Asp His Gly
225 230 235 240

Arg Gly Asp Leu Gly Arg Leu Lys Lys Gln Lys Asp His His Asn Pro
245 250 255

His Leu Ile Leu Met Met Ile Pro Pro His Arg Leu Asp Asn Pro Gly
260 265 270

Gln Gly Gly Gln Arg Lys Lys Arg Ala Leu Asp Thr Asn Tyr Cys Phe
275 280 285

Arg Asn Leu Glu Glu Asn Cys Cys Val Arg Pro Leu Tyr Ile Asp Phe
290 295 300

Arg Gln Asp Leu Gly Trp Lys Trp Val His Glu Pro Lys Gly Tyr Tyr
305 310 315 320

Ala Asn Phe Cys Ser Gly Pro Cys Pro Tyr Leu Arg Ser Ala Asp Thr
325 330 335

Thr His Ser Thr Val Leu Gly Leu Tyr Asn Thr Leu Asn Pro Glu Ala
340 345 350

Ser Ala Ser Pro Cys Cys Val Pro Gln Asp Leu Glu Pro Leu Thr Ile
355 360 365

Leu Tyr Tyr Val Gly Arg Thr Pro Lys Val Glu Gln Leu Ser Asn Met
370 375 380

Val Val Lys Ser Cys Lys Cys Ser
385 390

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Leu Ser Thr Cys Lys Thr Ile Asp Met Glu Leu Val Lys Arg Lys Arg
1 5 10 15

Ile Glu Ala Ile Arg Gly Gln Ile Leu Ser Lys Leu Arg Leu Ala Ser
20 25 30

Pro Pro Ser Gln Gly Glu Val Pro Pro Gly Pro Leu Pro Glu Ala Val
35 40 45

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

Glu Pro Glu Pro Glu Pro Glu Ala Asp Tyr Tyr Ala Lys Glu Val Thr
65 70 75 80

Arg Val Leu Met Val Glu Thr His Asn Glu Ile Tyr Asp Lys Phe Lys
85 90 95

Gln Ser Thr His Ser Ile Tyr Met Phe Phe Asn Thr Ser Glu Leu Arg
100 105 110

Glu Ala Val Pro Glu Pro Val Leu Leu Ser Arg Ala Glu Leu Arg Leu
115 120 125

Leu Arg Leu Lys Leu Lys Val Glu Gln His Val Glu Leu Tyr Gln Lys
 130 135 140
 Tyr Ser Asn Asn Ser Trp Arg Tyr Leu Ser Asn Arg Leu Leu Ala Pro
 145 150 155 160
 Ser Asp Ser Pro Glu Trp Leu Ser Phe Asp Val Thr Gly Val Val Arg
 165 170 175
 Gln Trp Leu Ser Arg Gly Gly Glu Ile Glu Gly Phe Arg Leu Ser Ala
 180 185 190
 His Cys Ser Cys Asp Ser Arg Asp Asn Thr Leu Gln Val Asp Ile Asn
 195 200 205
 Gly Phe Thr Thr Gly Arg Arg Gly Asp Leu Ala Thr Ile His Gly Met
 210 215 220
 Asn Arg Pro Phe Leu Leu Leu Met Ala Thr Pro Leu Glu Arg Ala Gln
 225 230 235 240
 His Leu Gln Ser Ser Arg His Arg Arg Ala Leu Asp Thr Asn Tyr Cys
 245 250 255
 Phe Ser Ser Thr Glu Lys Asn Cys Cys Val Arg Gln Leu Tyr Ile Asp
 260 265 270
 Phe Arg Lys Asp Leu Gly Trp Lys Trp Ile His Glu Pro Lys Gly Tyr
 275 280 285
 His Ala Asn Phe Cys Leu Gly Pro Cys Pro Tyr Ile Trp Ser Leu Asp
 290 295 300
 Thr Gln Tyr Ser Lys Val Leu Ala Leu Tyr Asn Gln His Asn Pro Gly
 305 310 315 320
 Ala Ser Ala Ala Pro Cys Cys Val Pro Gln Ala Leu Glu Pro Leu Pro
 325 330 335
 Ile Val Tyr Tyr Val Gly Arg Lys Pro Lys Val Glu Gln Leu Ser Asn
 340 345 350
 Met Ile Val Arg Ser Cys Lys Cys Ser
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 35 40 45
 Leu Ala Leu Tyr Asn Ser Thr Arg Asp Arg Val Ala Gly Glu Ser Ala
 50 55 60
 Glu Pro Glu Pro Glu Pro Glu Ala Asp Tyr Tyr Ala Lys Glu Val Thr
 65 70 75 80
 Arg Val Leu Met Val Glu Thr His Asn Glu Ile Tyr Asp Lys Phe Lys
 85 90 95
 Gln Ser Thr His Ser Ile Tyr Met Phe Phe Asn Thr Ser Glu Leu Arg
 100 105 110
 Glu Ala Val Pro Glu Pro Val Leu Leu Ser Arg Ala Glu Leu Arg Leu
 115 120 125

Leu Arg Leu Lys Leu Lys Val Glu Gln His Val Glu Leu Tyr Gln Lys
130 135 140

Tyr Ser Asn Asn Ser Trp Arg Tyr Leu Ser Asn Arg Leu Leu Ala Pro
145 150 155 160

Ser Asp Ser Pro Glu Trp Leu Ser Phe Asp Val Thr Gly Val Val Arg
165 170 175

Gln Trp Leu Ser Arg Gly Gly Glu Ile Glu Gly Phe Arg Leu Ser Ala
180 185 190

His Cys Ser Cys Asp Ser Arg Asp Asn Thr Leu Gln Val Asp Ile Asn
195 200 205

Gly Phe Thr Thr Gly Arg Arg Gly Asp Leu Ala Thr Ile His Gly Met
210 215 220

Asn Arg Pro Phe Leu Leu Leu Met Ala Thr Pro Leu Glu Arg Ala Gln
225 230 235 240

His Leu Gln Ser Ser Arg His Arg Arg Ala Leu Asp Thr Asn Tyr Cys
245 250 255

Phe Ser Ser Thr Glu Lys Asn Cys Cys Val Arg Gln Leu Tyr Ile Asp
260 265 270

Phe Arg Lys Asp Leu Gly Trp Lys Trp Ile His Glu Pro Lys Gly Tyr
275 280 285

His Ala Asn Phe Cys Leu Gly Pro Cys Pro Tyr Ile Trp Ser Leu Asp
290 295 300

Thr Gln Tyr Ser Lys Val Leu Ala Leu Tyr Asn Gln His Asn Pro Gly
305 310 315 320

Ala Ser Ala Ala Pro Cys Cys Val Pro Gln Ala Leu Glu Pro Leu Pro
325 330 335

Ile Val Tyr Tyr Val Gly Arg Lys Pro Lys Val Glu Gln Leu Ser Asn
340 345 350

Met Ile Val Arg Ser Cys Lys Cys Ser
355 360

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<400> 26

Leu Ser Thr Cys Lys Thr Ile Asp Met Glu Leu Val Lys Arg Lys Arg
1 5 10 15

Ile Glu Ala Ile Arg Gly Gln Ile Leu Ser Lys Leu Arg Leu Ala Ser
20 25 30

Pro Pro Ser Gln Gly Glu Val Pro Pro Gly Pro Leu Pro Glu Ala Val
35 40 45

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

Glu Pro Glu Pro Glu Pro Glu Ala Asp Tyr Tyr Ala Lys Glu Val Thr
65 70 75 80

Arg Val Leu Met Val Glu Thr His Asn Glu Ile Tyr Asp Lys Phe Lys
85 90 95

Gln Ser Thr His Ser Ile Tyr Met Phe Phe Asn Thr Ser Glu Leu Arg
100 105 110

Glu Ala Val Pro Glu Pro Val Leu Leu Ser Arg Ala Glu Leu Arg Leu
115 120 125

Leu Arg Leu Lys Leu Lys Val Glu Gln His Val Glu Leu Tyr Gln Lys

130 135
Tyr Ser Asn Asn Ser Trp Arg Tyr Leu Ser Asn Arg Leu Leu Ala Pro
145 150 155 160
Ser Asp Ser Pro Glu Trp Leu Ser Phe Asp Val Thr Gly Val Val Arg
165 170 175
Gln Trp Leu Ser Arg Gly Gly Glu Ile Glu Gly Phe Arg Leu Ser Ala
180 185 190
His Cys Ser Cys Asp Ser Arg Asp Asn Thr Leu Gln Val Asp Ile Asn
195 200 205
Gly Phe Thr Thr Gly Arg Arg Gly Asp Leu Ala Thr Ile His Gly Met
210 215 220
Asn Arg Pro Phe Leu Leu Leu Met Ala Thr Pro Leu Glu Arg Ala Gln
225 230 235 240
His Leu Gln Ser Ser Arg His Gly Ala Leu Asp Thr Asn Tyr Cys Phe
245 250 255
Ser Ser Thr Glu Lys Asn Cys Cys Val Arg Gln Leu Tyr Ile Asp Phe
260 265 270
Arg Lys Asp Leu Gly Trp Lys Trp Ile His Glu Pro Lys Gly Tyr His
275 280 285
Ala Asn Phe Cys Leu Gly Pro Cys Pro Tyr Ile Trp Ser Leu Asp Thr
290 295 300
Gln Tyr Ser Lys Val Leu Ala Leu Tyr Asn Gln His Asn Pro Gly Ala
305 310 315 320
Ser Ala Ala Pro Cys Cys Val Pro Gln Ala Leu Glu Pro Leu Pro Ile
325 330 335
Val Tyr Tyr Val Gly Arg Lys Pro Lys Val Glu Gln Leu Ser Asn Met
340 345 350
Ile Val Arg Ser Cys Lys Cys Ser
355 360
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<400> 27
Leu Ser Thr Ser Lys Thr Ile Asp Met Glu Leu Val Lys Arg Lys Arg
1 5 10 15
Ile Glu Ala Ile Arg Gly Gln Ile Leu Ser Lys Leu Arg Leu Ala Ser
20 25 30
Pro Pro Ser Gln Gly Glu Val Pro Pro Gly Pro Leu Pro Glu Ala Val
35 40 45
Leu Ala Leu Tyr Asn Ser Thr Arg Asp Arg Val Ala Gly Glu Ser Ala
50 55 60
Glu Pro Glu Pro Glu Pro Glu Ala Asp Tyr Tyr Ala Lys Glu Val Thr
65 70 75 80
Arg Val Leu Met Val Glu Thr His Asn Glu Ile Tyr Asp Lys Phe Lys
85 90 95
Gln Ser Thr His Ser Ile Tyr Met Phe Phe Asn Thr Ser Glu Leu Arg
100 105 110
Glu Ala Val Pro Glu Pro Val Leu Leu Ser Arg Ala Glu Leu Arg Leu
115 120 125
Leu Arg Leu Lys Leu Lys Val Glu Gln His Val Glu Leu Tyr Gln Lys
130 135 140

Tyr Ser Asn Asn Ser Trp Arg Tyr Leu Ser Asn Arg Leu Leu Ala Pro
145 150 155 160

Ser Asp Ser Pro Glu Trp Leu Ser Phe Asp Val Thr Gly Val Val Arg
165 170 175

Gln Trp Leu Ser Arg Gly Gly Glu Ile Glu Gly Phe Arg Leu Ser Ala
180 185 190

His Cys Ser Cys Asp Ser Arg Asp Asn Thr Leu Gln Val Asp Ile Asn
195 200 205

Gly Phe Thr Thr Gly Arg Arg Gly Asp Leu Ala Thr Ile His Gly Met
210 215 220

Asn Arg Pro Phe Leu Leu Leu Met Ala Thr Pro Leu Glu Arg Ala Gln
225 230 235 240

His Leu Gln Ser Ser Arg His Gly Ala Leu Asp Thr Asn Tyr Cys Phe
245 250 255

Ser Ser Thr Glu Lys Asn Cys Cys Val Arg Gln Leu Tyr Ile Asp Phe
260 265 270

Arg Lys Asp Leu Gly Trp Lys Trp Ile His Glu Pro Lys Gly Tyr His
275 280 285

Ala Asn Phe Cys Leu Gly Pro Cys Pro Tyr Ile Trp Ser Leu Asp Thr
290 295 300

Gln Tyr Ser Lys Val Leu Ala Leu Tyr Asn Gln His Asn Pro Gly Ala
305 310 315 320

Ser Ala Ala Pro Cys Cys Val Pro Gln Ala Leu Glu Pro Leu Pro Ile
325 330 335

Val Tyr Tyr Val Gly Arg Lys Pro Lys Val Glu Gln Leu Ser Asn Met
340 345 350

Ile Val Arg Ser Cys Lys Cys Ser
355 360

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Ser Leu Ser Thr Cys Ser Thr Leu Asp Met Asp Gln Phe Met Arg Lys
1 5 10 15

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

Ser Pro Pro Glu Asp Tyr Pro Glu Pro Glu Glu Val Pro Pro Glu Val
35 40 45

Ile Ser Ile Tyr Asn Ser Thr Arg Asp Leu Leu Gln Glu Lys Ala Ser
50 55 60

Arg Arg Ala Ala Ala Cys Glu Arg Glu Arg Ser Asp Glu Glu Tyr Tyr
65 70 75 80

Ala Lys Glu Val Tyr Lys Ile Asp Met Pro Pro Phe Phe Pro Ser Glu
85 90 95

Asn Ala Ile Pro Pro Thr Phe Tyr Arg Pro Tyr Phe Arg Ile Val Arg
100 105 110

Phe Asp Val Ser Ala Met Glu Lys Asn Ala Ser Asn Leu Val Lys Ala
115 120 125

Glu Phe Arg Val Phe Arg Leu Gln Asn Pro Lys Ala Arg Val Pro Glu
130 135 140

Gln Arg Ile Glu Leu Tyr Gln Ile Leu Lys Ser Lys Asp Leu Thr Ser
 145 150 155 160
 Pro Thr Gln Arg Tyr Ile Asp Ser Lys Val Val Lys Thr Arg Ala Glu
 165 170 175
 Gly Glu Trp Leu Ser Phe Asp Val Thr Asp Ala Val His Glu Trp Leu
 180 185 190
 His His Lys Asp Arg Asn Leu Gly Phe Lys Ile Ser Leu His Cys Pro
 195 200 205
 Cys Cys Thr Phe Val Pro Ser Asn Asn Tyr Ile Ile Pro Asn Lys Ser
 210 215 220
 Glu Glu Leu Glu Ala Arg Phe Ala Gly Ile Asp Gly Thr Ser Thr Tyr
 225 230 235 240
 Thr Ser Gly Asp Gln Lys Thr Ile Lys Ser Thr Arg Lys Lys Asn Ser
 245 250 255
 Gly Lys Thr Pro His Leu Leu Leu Met Leu Leu Pro Ser Tyr Arg Leu
 260 265 270
 Glu Ser Gln Gln Thr Asn Arg Arg Lys Lys Arg Ala Leu Asp Ala Ala
 275 280 285
 Tyr Cys Phe Arg Asn Val Gln Asp Asn Cys Cys Leu Arg Pro Leu Tyr
 290 295 300
 Ile Asp Phe Lys Arg Asp Leu Gly Trp Lys Trp Ile His Glu Pro Lys
 305 310 315 320
 Gly Tyr Asn Ala Asn Phe Cys Ala Gly Ala Cys Pro Tyr Leu Trp Ser
 325 330 335
 Ser Asp Thr Gln His Ser Arg Val Leu Ser Leu Tyr Asn Thr Ile Asn
 340 345 350
 Pro Glu Ala Ser Ala Ser Pro Cys Cys Val Ser Gln Asp Leu Glu Pro
 355 360 365
 Leu Thr Ile Leu Tyr Tyr Ile Gly Lys Thr Pro Lys Ile Glu Gln Leu
 370 375 380
 Ser Asn Met Ile Val Lys Ser Cys Lys Cys Ser
 385 390 395
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 Ser Leu Ser Thr Ser Ser Thr Leu Asp Met Asp Gln Phe Met Arg Lys
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 Arg Ile Glu Ala Ile Arg Gly Gln Ile Leu Ser Lys Leu Lys Leu Thr
 20 25 30
 Ser Pro Pro Glu Asp Tyr Pro Glu Pro Glu Glu Val Pro Pro Glu Val
 35 40 45
 Ile Ser Ile Tyr Asn Ser Thr Arg Asp Leu Leu Gln Glu Lys Ala Ser
 50 55 60
 Arg Arg Ala Ala Ala Cys Glu Arg Glu Arg Ser Asp Glu Glu Tyr Tyr
 65 70 75 80
 Ala Lys Glu Val Tyr Lys Ile Asp Met Pro Pro Phe Phe Pro Ser Glu
 85 90 95
 Asn Ala Ile Pro Pro Thr Phe Tyr Arg Pro Tyr Phe Arg Ile Val Arg
 100 105 110

Phe Asp Val Ser Ala Met Glu Lys Asn Ala Ser Asn Leu Val Lys Ala
 115 120 125
 Glu Phe Arg Val Phe Arg Leu Gln Asn Pro Lys Ala Arg Val Pro Glu
 130 135 140
 Gln Arg Ile Glu Leu Tyr Gln Ile Leu Lys Ser Lys Asp Leu Thr Ser
 145 150 155 160
 Pro Thr Gln Arg Tyr Ile Asp Ser Lys Val Val Lys Thr Arg Ala Glu
 165 170 175
 Gly Glu Trp Leu Ser Phe Asp Val Thr Asp Ala Val His Glu Trp Leu
 180 185 190
 His His Lys Asp Arg Asn Leu Gly Phe Lys Ile Ser Leu His Cys Pro
 195 200 205
 Cys Cys Thr Phe Val Pro Ser Asn Asn Tyr Ile Ile Pro Asn Lys Ser
 210 215 220
 Glu Glu Leu Glu Ala Arg Phe Ala Gly Ile Asp Gly Thr Ser Thr Tyr
 225 230 235 240
 Thr Ser Gly Asp Gln Lys Thr Ile Lys Ser Thr Arg Lys Lys Asn Ser
 245 250 255
 Gly Lys Thr Pro His Leu Leu Leu Met Leu Leu Pro Ser Tyr Arg Leu
 260 265 270
 Glu Ser Gln Gln Thr Asn Arg Arg Lys Lys Arg Ala Leu Asp Ala Ala
 275 280 285
 Tyr Cys Phe Arg Asn Val Gln Asp Asn Cys Cys Leu Arg Pro Leu Tyr
 290 295 300
 Ile Asp Phe Lys Arg Asp Leu Gly Trp Lys Trp Ile His Glu Pro Lys
 305 310 315 320
 Gly Tyr Asn Ala Asn Phe Cys Ala Gly Ala Cys Pro Tyr Leu Trp Ser
 325 330 335
 Ser Asp Thr Gln His Ser Arg Val Leu Ser Leu Tyr Asn Thr Ile Asn
 340 345 350
 Pro Glu Ala Ser Ala Ser Pro Cys Cys Val Ser Gln Asp Leu Glu Pro
 355 360 365
 Leu Thr Ile Leu Tyr Tyr Ile Gly Lys Thr Pro Lys Ile Glu Gln Leu
 370 375 380
 Ser Asn Met Ile Val Lys Ser Cys Lys Cys Ser
 385 390 395

<210> 30
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<400> 30

Ser Leu Ser Thr Ser Ser Thr Leu Asp Met Asp Gln Phe Met Arg Lys
 1 5 10

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

Ser Pro Pro Glu Asp Tyr Pro Glu Pro Glu Glu Val Pro Pro Glu Val
 35 40 45

Ile Ser Ile Tyr Asn Ser Thr Arg Asp Leu Leu Gln Glu Lys Ala Ser
 50 55 60

Arg Arg Ala Ala Ala Cys Glu Arg Glu Arg Ser Asp Glu Glu Tyr Tyr
 65 70 75 80

Ala Lys Glu Val Tyr Lys Ile Asp Met Pro Pro Phe Phe Pro Ser Glu
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85

90

95

Asn Ala Ile Pro Pro Thr Phe Tyr Arg Pro Tyr Phe Arg Ile Val Arg
100 105 110

Phe Asp Val Ser Ala Met Glu Lys Asn Ala Ser Asn Leu Val Lys Ala
115 120 125

Glu Phe Arg Val Phe Arg Leu Gln Asn Pro Lys Ala Arg Val Pro Glu
130 135 140

Gln Arg Ile Glu Leu Tyr Gln Ile Leu Lys Ser Lys Asp Leu Thr Ser
145 150 155 160

Pro Thr Gln Arg Tyr Ile Asp Ser Lys Val Val Lys Thr Arg Ala Glu
165 170 175

Gly Glu Trp Leu Ser Phe Asp Val Thr Asp Ala Val His Glu Trp Leu
180 185 190

His His Lys Asp Arg Asn Leu Gly Phe Lys Ile Ser Leu His Cys Pro
195 200 205

Cys Cys Thr Phe Val Pro Ser Asn Asn Tyr Ile Ile Pro Asn Lys Ser
210 215 220

Glu Glu Leu Glu Ala Arg Phe Ala Gly Ile Asp Gly Thr Ser Thr Tyr
225 230 235 240

Thr Ser Gly Asp Gln Lys Thr Ile Lys Ser Thr Arg Lys Lys Asn Ser
245 250 255

Gly Lys Thr Pro His Leu Leu Leu Met Leu Leu Pro Ser Tyr Arg Leu
260 265 270

Glu Ser Gln Gln Thr Asn Arg Arg Lys Gly Ala Leu Asp Ala Ala Tyr
275 280 285

Cys Phe Arg Asn Val Gln Asp Asn Cys Cys Leu Arg Pro Leu Tyr Ile
290 295 300

Asp Phe Lys Arg Asp Leu Gly Trp Lys Trp Ile His Glu Pro Lys Gly
305 310 315 320

Tyr Asn Ala Asn Phe Cys Ala Gly Ala Cys Pro Tyr Leu Trp Ser Ser
325 330 335

Asp Thr Gln His Ser Arg Val Leu Ser Leu Tyr Asn Thr Ile Asn Pro
340 345 350

Glu Ala Ser Ala Ser Pro Cys Cys Val Ser Gln Asp Leu Glu Pro Leu
355 360 365

Thr Ile Leu Tyr Tyr Ile Gly Lys Thr Pro Lys Ile Glu Gln Leu Ser
370 375 380

Asn Met Ile Val Lys Ser Cys Lys Cys Ser
385 390

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<400> 31

Ser Leu Ser Thr Cys Ser Thr Leu Asp Met Asp Gln Phe Met Arg Lys
1 5 10 15

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

Ser Pro Pro Glu Asp Tyr Pro Glu Pro Glu Glu Val Pro Pro Glu Val
35 40 45

Ile Ser Ile Tyr Asn Ser Thr Arg Asp Leu Leu Gln Glu Lys Ala Ser
50 55 60

Arg Arg Ala Ala Ala Cys Glu Arg Glu Arg Ser Asp Glu Glu Tyr Tyr
65 70 75 80

Ala Lys Glu Val Tyr Lys Ile Asp Met Pro Pro Phe Phe Pro Ser Glu
85 90 95

Asn Ala Ile Pro Pro Thr Phe Tyr Arg Pro Tyr Phe Arg Ile Val Arg
100 105 110

Phe Asp Val Ser Ala Met Glu Lys Asn Ala Ser Asn Leu Val Lys Ala
115 120 125

Glu Phe Arg Val Phe Arg Leu Gln Asn Pro Lys Ala Arg Val Pro Glu
130 135 140

Gln Arg Ile Glu Leu Tyr Gln Ile Leu Lys Ser Lys Asp Leu Thr Ser
145 150 155 160

Pro Thr Gln Arg Tyr Ile Asp Ser Lys Val Val Lys Thr Arg Ala Glu
165 170 175

Gly Glu Trp Leu Ser Phe Asp Val Thr Asp Ala Val His Glu Trp Leu
180 185 190

His His Lys Asp Arg Asn Leu Gly Phe Lys Ile Ser Leu His Cys Pro
195 200 205

Cys Cys Thr Phe Val Pro Ser Asn Asn Tyr Ile Ile Pro Asn Lys Ser
210 215 220

Glu Glu Leu Glu Ala Arg Phe Ala Gly Ile Asp Gly Thr Ser Thr Tyr
225 230 235 240

Thr Ser Gly Asp Gln Lys Thr Ile Lys Ser Thr Arg Lys Lys Asn Ser
245 250 255

Gly Lys Thr Pro His Leu Leu Leu Met Leu Leu Pro Ser Tyr Arg Leu
260 265 270

Glu Ser Gln Gln Thr Asn Arg Arg Lys Gly Ala Leu Asp Ala Ala Tyr
275 280 285

Cys Phe Arg Asn Val Gln Asp Asn Cys Cys Leu Arg Pro Leu Tyr Ile
290 295 300

Asp Phe Lys Arg Asp Leu Gly Trp Lys Trp Ile His Glu Pro Lys Gly
305 310 315 320

Tyr Asn Ala Asn Phe Cys Ala Gly Ala Cys Pro Tyr Leu Trp Ser Ser
325 330 335

Asp Thr Gln His Ser Arg Val Leu Ser Leu Tyr Asn Thr Ile Asn Pro
340 345 350

Glu Ala Ser Ala Ser Pro Cys Cys Val Ser Gln Asp Leu Glu Pro Leu
355 360 365

Thr Ile Leu Tyr Tyr Ile Gly Lys Thr Pro Lys Ile Glu Gln Leu Ser
370 375 380

Asn Met Ile Val Lys Ser Cys Lys Cys Ser
385 390

<210> 32
<211> 392
<212> PRT
<213> Secuencia Artificial

<220>
<223> sintético: proTGF-beta-3

<400> 32

Ser Leu Ser Leu Ser Thr Cys Thr Thr Leu Asp Phe Gly His Ile Lys
1 5 10 15

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

Leu Thr Ser Pro Pro Glu Pro Thr Val Met Thr His Val Pro Tyr Gln
 35 40 45
 Val Leu Ala Leu Tyr Asn Ser Thr Arg Glu Leu Leu Glu Glu Met His
 50 55 60
 Gly Glu Arg Glu Glu Gly Cys Thr Gln Glu Asn Thr Glu Ser Glu Tyr
 65 70 75 80
 Tyr Ala Lys Glu Ile His Lys Phe Asp Met Ile Gln Gly Leu Ala Glu
 85 90 95
 His Asn Glu Leu Ala Val Cys Pro Lys Gly Ile Thr Ser Lys Val Phe
 100 105 110
 Arg Phe Asn Val Ser Ser Val Glu Lys Asn Arg Thr Asn Leu Phe Arg
 115 120 125
 Ala Glu Phe Arg Val Leu Arg Val Pro Asn Pro Ser Ser Lys Arg Asn
 130 135 140
 Glu Gln Arg Ile Glu Leu Phe Gln Ile Leu Arg Pro Asp Glu His Ile
 145 150 155 160
 Ala Lys Gln Arg Tyr Ile Gly Gly Lys Asn Leu Pro Thr Arg Gly Thr
 165 170 175
 Ala Glu Trp Leu Ser Phe Asp Val Thr Asp Thr Val Arg Glu Trp Leu
 180 185 190
 Leu Arg Arg Glu Ser Asn Leu Gly Leu Glu Ile Ser Ile His Cys Pro
 195 200 205
 Cys His Thr Phe Gln Pro Asn Gly Asp Ile Leu Glu Asn Ile His Glu
 210 215 220
 Val Met Glu Ile Lys Phe Lys Gly Val Asp Asn Glu Asp Asp His Gly
 225 230 235 240
 Arg Gly Asp Leu Gly Arg Leu Lys Lys Gln Lys Asp His His Asn Pro
 245 250 255
 His Leu Ile Leu Met Met Ile Pro Pro His Arg Leu Asp Asn Pro Gly
 260 265 270
 Gln Gly Gly Gln Arg Lys Lys Arg Ala Leu Asp Thr Asn Tyr Cys Phe
 275 280 285
 Arg Asn Leu Glu Glu Asn Cys Cys Val Arg Pro Leu Tyr Ile Asp Phe
 290 295 300
 Arg Gln Asp Leu Gly Trp Lys Trp Val His Glu Pro Lys Gly Tyr Tyr
 305 310 315 320
 Ala Asn Phe Cys Ser Gly Pro Cys Pro Tyr Leu Arg Ser Ala Asp Thr
 325 330 335
 Thr His Ser Thr Val Leu Gly Leu Tyr Asn Thr Leu Asn Pro Glu Ala
 340 345 350
 Ser Ala Ser Pro Cys Cys Val Pro Gln Asp Leu Glu Pro Leu Thr Ile
 355 360 365
 Leu Tyr Tyr Val Gly Arg Thr Pro Lys Val Glu Gln Leu Ser Asn Met
 370 375 380
 Val Val Lys Ser Cys Lys Cys Ser
 385 390

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<400> 33

Ser Leu Ser Leu Ser Thr Ser Thr Thr Leu Asp Phe Gly His Ile Lys
 1 5 10 15
 Lys Lys Arg Val Glu Ala Ile Arg Gly Gln Ile Leu Ser Lys Leu Arg
 20 25 30
 Leu Thr Ser Pro Pro Glu Pro Thr Val Met Thr His Val Pro Tyr Gln
 35 40 45
 Val Leu Ala Leu Tyr Asn Ser Thr Arg Glu Leu Leu Glu Glu Met His
 50 55 60
 Gly Glu Arg Glu Glu Gly Cys Thr Gln Glu Asn Thr Glu Ser Glu Tyr
 65 70 75 80
 Tyr Ala Lys Glu Ile His Lys Phe Asp Met Ile Gln Gly Leu Ala Glu
 85 90 95
 His Asn Glu Leu Ala Val Cys Pro Lys Gly Ile Thr Ser Lys Val Phe
 100 105 110
 Arg Phe Asn Val Ser Ser Val Glu Lys Asn Arg Thr Asn Leu Phe Arg
 115 120 125
 Ala Glu Phe Arg Val Leu Arg Val Pro Asn Pro Ser Ser Lys Arg Asn
 130 135 140
 Glu Gln Arg Ile Glu Leu Phe Gln Ile Leu Arg Pro Asp Glu His Ile
 145 150 155 160
 Ala Lys Gln Arg Tyr Ile Gly Gly Lys Asn Leu Pro Thr Arg Gly Thr
 165 170 175
 Ala Glu Trp Leu Ser Phe Asp Val Thr Asp Thr Val Arg Glu Trp Leu
 180 185 190
 Leu Arg Arg Glu Ser Asn Leu Gly Leu Glu Ile Ser Ile His Cys Pro
 195 200 205
 Cys His Thr Phe Gln Pro Asn Gly Asp Ile Leu Glu Asn Ile His Glu
 210 215 220
 Val Met Glu Ile Lys Phe Lys Gly Val Asp Asn Glu Asp Asp His Gly
 225 230 235 240
 Arg Gly Asp Leu Gly Arg Leu Lys Lys Gln Lys Asp His His Asn Pro
 245 250 255
 His Leu Ile Leu Met Met Ile Pro Pro His Arg Leu Asp Asn Pro Gly
 260 265 270
 Gln Gly Gly Gln Arg Lys Lys Arg Ala Leu Asp Thr Asn Tyr Cys Phe
 275 280 285
 Arg Asn Leu Glu Glu Asn Cys Cys Val Arg Pro Leu Tyr Ile Asp Phe
 290 295 300
 Arg Gln Asp Leu Gly Trp Lys Trp Val His Glu Pro Lys Gly Tyr Tyr
 305 310 315 320
 Ala Asn Phe Cys Ser Gly Pro Cys Pro Tyr Leu Arg Ser Ala Asp Thr
 325 330 335
 Thr His Ser Thr Val Leu Gly Leu Tyr Asn Thr Leu Asn Pro Glu Ala
 340 345 350
 Ser Ala Ser Pro Cys Cys Val Pro Gln Asp Leu Glu Pro Leu Thr Ile
 355 360 365
 Leu Tyr Tyr Val Gly Arg Thr Pro Lys Val Glu Gln Leu Ser Asn Met
 370 375 380
 Val Val Lys Ser Cys Lys Cys Ser
 385 390

<210> 34
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<213> Secuencia Artificial

<220>

<223> Sintético: proTGF-beta-3 C7S D2G

<400> 34

Ser Leu Ser Leu Ser Thr Ser Thr Thr Leu Asp Phe Gly His Ile Lys
1 5 10 15

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

Leu Thr Ser Pro Pro Glu Pro Thr Val Met Thr His Val Pro Tyr Gln
35 40 45

Val Leu Ala Leu Tyr Asn Ser Thr Arg Glu Leu Leu Glu Glu Met His
50 55 60

Gly Glu Arg Glu Glu Gly Cys Thr Gln Glu Asn Thr Glu Ser Glu Tyr
65 70 75 80

Tyr Ala Lys Glu Ile His Lys Phe Asp Met Ile Gln Gly Leu Ala Glu
85 90 95

His Asn Glu Leu Ala Val Cys Pro Lys Gly Ile Thr Ser Lys Val Phe
100 105 110

Arg Phe Asn Val Ser Ser Val Glu Lys Asn Arg Thr Asn Leu Phe Arg
115 120 125

Ala Glu Phe Arg Val Leu Arg Val Pro Asn Pro Ser Ser Lys Arg Asn
130 135 140

Glu Gln Arg Ile Glu Leu Phe Gln Ile Leu Arg Pro Asp Glu His Ile
145 150 155 160

Ala Lys Gln Arg Tyr Ile Gly Gly Lys Asn Leu Pro Thr Arg Gly Thr
165 170 175

Ala Glu Trp Leu Ser Phe Asp Val Thr Asp Thr Val Arg Glu Trp Leu
180 185 190

Leu Arg Arg Glu Ser Asn Leu Gly Leu Glu Ile Ser Ile His Cys Pro
195 200 205

Cys His Thr Phe Gln Pro Asn Gly Asp Ile Leu Glu Asn Ile His Glu
210 215 220

Val Met Glu Ile Lys Phe Lys Gly Val Asp Asn Glu Asp Asp His Gly
225 230 235 240

Arg Gly Asp Leu Gly Arg Leu Lys Lys Gln Lys Asp His His Asn Pro
245 250 255

His Leu Ile Leu Met Met Ile Pro Pro His Arg Leu Asp Asn Pro Gly
260 265 270

Gln Gly Gly Gln Arg Lys Gly Ala Leu Asp Thr Asn Tyr Cys Phe Arg
275 280 285

Asn Leu Glu Glu Asn Cys Cys Val Arg Pro Leu Tyr Ile Asp Phe Arg
290 295 300

Gln Asp Leu Gly Trp Lys Trp Val His Glu Pro Lys Gly Tyr Tyr Ala
305 310 315 320

Asn Phe Cys Ser Gly Pro Cys Pro Tyr Leu Arg Ser Ala Asp Thr Thr
325 330 335

His Ser Thr Val Leu Gly Leu Tyr Asn Thr Leu Asn Pro Glu Ala Ser
340 345 350

Ala Ser Pro Cys Cys Val Pro Gln Asp Leu Glu Pro Leu Thr Ile Leu
355 360 365

Tyr Tyr Val Gly Arg Thr Pro Lys Val Glu Gln Leu Ser Asn Met Val
370 375 380

Val Lys Ser Cys Lys Cys Ser
385 390

<210> 35
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<212> PRT
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<400> 35

Ser Leu Ser Leu Ser Thr Cys Thr Thr Leu Asp Phe Gly His Ile Lys
1 5 10 15

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

Leu Thr Ser Pro Pro Glu Pro Thr Val Met Thr His Val Pro Tyr Gln
35 40 45

Val Leu Ala Leu Tyr Asn Ser Thr Arg Glu Leu Leu Glu Glu Met His
50 55 60

Gly Glu Arg Glu Glu Gly Cys Thr Gln Glu Asn Thr Glu Ser Glu Tyr
65 70 75 80

Tyr Ala Lys Glu Ile His Lys Phe Asp Met Ile Gln Gly Leu Ala Glu
85 90 95

His Asn Glu Leu Ala Val Cys Pro Lys Gly Ile Thr Ser Lys Val Phe
100 105 110

Arg Phe Asn Val Ser Ser Val Glu Lys Asn Arg Thr Asn Leu Phe Arg
115 120 125

Ala Glu Phe Arg Val Leu Arg Val Pro Asn Pro Ser Ser Lys Arg Asn
130 135 140

Glu Gln Arg Ile Glu Leu Phe Gln Ile Leu Arg Pro Asp Glu His Ile
145 150 155 160

Ala Lys Gln Arg Tyr Ile Gly Gly Lys Asn Leu Pro Thr Arg Gly Thr
165 170 175

Ala Glu Trp Leu Ser Phe Asp Val Thr Asp Thr Val Arg Glu Trp Leu
180 185 190

Leu Arg Arg Glu Ser Asn Leu Gly Leu Glu Ile Ser Ile His Cys Pro
195 200 205

Cys His Thr Phe Gln Pro Asn Gly Asp Ile Leu Glu Asn Ile His Glu
210 215 220

Val Met Glu Ile Lys Phe Lys Gly Val Asp Asn Glu Asp Asp His Gly
225 230 235 240

Arg Gly Asp Leu Gly Arg Leu Lys Lys Gln Lys Asp His His Asn Pro
245 250 255

His Leu Ile Leu Met Met Ile Pro Pro His Arg Leu Asp Asn Pro Gly
260 265 270

Gln Gly Gly Gln Arg Lys Gly Ala Leu Asp Thr Asn Tyr Cys Phe Arg
275 280 285

Asn Leu Glu Glu Asn Cys Cys Val Arg Pro Leu Tyr Ile Asp Phe Arg
290 295 300

Gln Asp Leu Gly Trp Lys Trp Val His Glu Pro Lys Gly Tyr Tyr Ala
305 310 315 320

Asn Phe Cys Ser Gly Pro Cys Pro Tyr Leu Arg Ser Ala Asp Thr Thr
325 330 335

His Ser Thr Val Leu Gly Leu Tyr Asn Thr Leu Asn Pro Glu Ala Ser
340 345 350

Ala Ser Pro Cys Cys Val Pro Gln Asp Leu Glu Pro Leu Thr Ile Leu

355

360

365

Tyr Tyr Val Gly Arg Thr Pro Lys Val Glu Gln Leu Ser Asn Met Val
370 375 380

Val Lys Ser Cys Lys Cys Ser
385 390

<210> 36
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<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético: proTGF-beta-1

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Leu Ser Thr Cys Lys Thr Ile Asp Met Glu Leu Val Lys Arg Lys Arg
1 5 10 15

Ile Glu Ala Ile Arg Gly Gln Ile Leu Ser Lys Leu Arg Leu Ala Ser
20 25 30

Pro Pro Ser Gln Gly Glu Val Pro Pro Gly Pro Leu Pro Glu Ala Val
35 40 45

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

Asp Pro Glu Pro Glu Pro Glu Ala Asp Tyr Tyr Ala Lys Glu Val Thr
65 70 75 80

Arg Val Leu Met Val Asp Arg Asn Asn Ala Ile Tyr Glu Lys Thr Lys
85 90 95

Asp Ile Ser His Ser Ile Tyr Met Phe Phe Asn Thr Ser Asp Ile Arg
100 105 110

Glu Ala Val Pro Glu Pro Pro Leu Leu Ser Arg Ala Glu Leu Arg Leu
115 120 125

Gln Arg Leu Lys Ser Ser Val Glu Gln His Val Glu Leu Tyr Gln Lys
130 135 140

Tyr Ser Asn Asn Ser Trp Arg Tyr Leu Gly Asn Arg Leu Leu Thr Pro
145 150 155 160

Thr Asp Thr Pro Glu Trp Leu Ser Phe Asp Val Thr Gly Val Val Arg
165 170 175

Gln Trp Leu Asn Gln Gly Asp Gly Ile Gln Gly Phe Arg Phe Ser Ala
180 185 190

His Cys Ser Cys Asp Ser Lys Asp Asn Lys Leu His Val Glu Ile Asn
195 200 205

Gly Ile Ser Pro Lys Arg Arg Gly Asp Leu Gly Thr Ile His Asp Met
210 215 220

Asn Arg Pro Phe Leu Leu Leu Met Ala Thr Pro Leu Glu Arg Ala Gln
225 230 235 240

His Leu His Ser Ser Arg His Arg Arg Ala Leu Asp Thr Asn Tyr Cys
245 250 255

Phe Ser Ser Thr Glu Lys Asn Cys Cys Val Arg Gln Leu Tyr Ile Asp
260 265 270

Phe Arg Lys Asp Leu Gly Trp Lys Trp Ile His Glu Pro Lys Gly Tyr
275 280 285

His Ala Asn Phe Cys Leu Gly Pro Cys Pro Tyr Ile Trp Ser Leu Asp
290 295 300

Thr Gln Tyr Ser Lys Val Leu Ala Leu Tyr Asn Gln His Asn Pro Gly
305 310 315 320

Ala Ser Ala Ser Pro Cys Cys Val Pro Gln Ala Leu Glu Pro Leu Pro
325 330 335

Ile Val Tyr Tyr Val Gly Arg Lys Pro Lys Val Glu Gln Leu Ser Asn
340 345 350

Met Ile Val Arg Ser Cys Lys Cys Ser
355 360

<210> 37
<211> 361
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético: proTGF-beta-1

<400> 37

Leu Ser Thr Cys Lys Thr Ile Asp Met Glu Leu Val Lys Arg Lys Arg
1 5 10 15

Ile Glu Ala Ile Arg Gly Gln Ile Leu Ser Lys Leu Arg Leu Ala Ser
20 25 30

Pro Pro Ser Gln Gly Glu Val Pro Pro Gly Pro Leu Pro Glu Ala Val
35 40 45

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

Glu Pro Glu Pro Glu Pro Glu Ala Asp Tyr Tyr Ala Lys Glu Val Thr
65 70 75 80

Arg Val Leu Met Val Glu Thr His Asn Glu Ile Tyr Asp Lys Phe Lys
85 90 95

Gln Ser Thr His Ser Ile Tyr Met Phe Phe Asn Thr Ser Glu Leu Arg
100 105 110

Glu Ala Val Pro Glu Pro Val Leu Leu Ser Arg Ala Glu Leu Arg Leu
115 120 125

Leu Arg Leu Lys Leu Lys Val Glu Gln His Val Glu Leu Tyr Gln Lys
130 135 140

Tyr Ser Asn Asn Ser Trp Arg Tyr Leu Ser Asn Arg Leu Leu Ala Pro
145 150 155 160

Ser Asp Ser Pro Glu Trp Leu Ser Phe Asp Val Thr Gly Val Val Arg
165 170 175

Gln Trp Leu Ser Arg Gly Gly Glu Ile Glu Gly Phe Arg Leu Ser Ala
180 185 190

His Cys Ser Cys Asp Ser Lys Asp Asn Thr Leu Gln Val Asp Ile Asn
195 200 205

Gly Phe Thr Thr Gly Arg Arg Gly Asp Leu Ala Thr Ile His Gly Met
210 215 220

Asn Arg Pro Phe Leu Leu Leu Met Ala Thr Pro Leu Glu Arg Ala Gln
225 230 235 240

His Leu Gln Ser Ser Arg His Arg Arg Ala Leu Asp Thr Asn Tyr Cys
245 250 255

Phe Ser Ser Thr Glu Lys Asn Cys Cys Val Arg Gln Leu Tyr Ile Asp
260 265 270

Phe Arg Lys Asp Leu Gly Trp Lys Trp Ile His Glu Pro Lys Gly Tyr
275 280 285

His Ala Asn Phe Cys Leu Gly Pro Cys Pro Tyr Ile Trp Ser Leu Asp
290 295 300

Thr Gln Tyr Ser Lys Val Leu Ala Leu Tyr Asn Gln His Asn Pro Gly
305 310 315 320

Ala Ser Ala Ala Pro Cys Cys Val Pro Gln Ala Leu Glu Pro Leu Pro
325 330 335

Ile Val Tyr Tyr Val Gly Arg Lys Pro Lys Val Glu Gln Leu Ser Asn
340 345 350

Met Ile Val Arg Ser Cys Lys Cys Ser
355 360

<210> 38
<211> 249
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético: TGF-beta-1 LAP C4S

<400> 38

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

Ile Glu Ala Ile Arg Gly Gln Ile Leu Ser Lys Leu Arg Leu Ala Ser
20 25 30

Pro Pro Ser Gln Gly Glu Val Pro Pro Gly Pro Leu Pro Glu Ala Val
35 40 45

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

Asp Pro Glu Pro Glu Pro Glu Ala Asp Tyr Tyr Ala Lys Glu Val Thr
65 70 75 80

Arg Val Leu Met Val Asp Arg Asn Asn Ala Ile Tyr Glu Lys Thr Lys
85 90 95

Asp Ile Ser His Ser Ile Tyr Met Phe Phe Asn Thr Ser Asp Ile Arg
100 105 110

Glu Ala Val Pro Glu Pro Pro Leu Leu Ser Arg Ala Glu Leu Arg Leu
115 120 125

Gln Arg Leu Lys Ser Ser Val Glu Gln His Val Glu Leu Tyr Gln Lys
130 135 140

Tyr Ser Asn Asn Ser Trp Arg Tyr Leu Gly Asn Arg Leu Leu Thr Pro
145 150 155 160

Thr Asp Thr Pro Glu Trp Leu Ser Phe Asp Val Thr Gly Val Val Arg
165 170 175

Gln Trp Leu Asn Gln Gly Asp Gly Ile Gln Gly Phe Arg Phe Ser Ala
180 185 190

His Cys Ser Cys Asp Ser Lys Asp Asn Lys Leu His Val Glu Ile Asn
195 200 205

Gly Ile Ser Pro Lys Arg Arg Gly Asp Leu Gly Thr Ile His Asp Met
210 215 220

Asn Arg Pro Phe Leu Leu Leu Met Ala Thr Pro Leu Glu Arg Ala Gln
225 230 235 240

His Leu His Ser Ser Arg His Arg Arg
245

<210> 39
<211> 249
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético: TGF-beta-1 LAP C4S

<400> 39

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

Ile Glu Ala Ile Arg Gly Gln Ile Leu Ser Lys Leu Arg Leu Ala Ser
20 25 30

Pro Pro Ser Gln Gly Glu Val Pro Pro Gly Pro Leu Pro Glu Ala Val
35 40 45

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

Glu Pro Glu Pro Glu Pro Glu Ala Asp Tyr Tyr Ala Lys Glu Val Thr
65 70 75 80

Arg Val Leu Met Val Glu Thr His Asn Glu Ile Tyr Asp Lys Phe Lys
85 90 95

Gln Ser Thr His Ser Ile Tyr Met Phe Phe Asn Thr Ser Glu Leu Arg
100 105 110

Glu Ala Val Pro Glu Pro Val Leu Leu Ser Arg Ala Glu Leu Arg Leu
115 120 125

Leu Arg Leu Lys Leu Lys Val Glu Gln His Val Glu Leu Tyr Gln Lys
130 135 140

Tyr Ser Asn Asn Ser Trp Arg Tyr Leu Ser Asn Arg Leu Leu Ala Pro
145 150 155 160

Ser Asp Ser Pro Glu Trp Leu Ser Phe Asp Val Thr Gly Val Val Arg
165 170 175

Gln Trp Leu Ser Arg Gly Gly Glu Ile Glu Gly Phe Arg Leu Ser Ala
180 185 190

His Cys Ser Cys Asp Ser Lys Asp Asn Thr Leu Gln Val Asp Ile Asn
195 200 205

Gly Phe Thr Thr Gly Arg Arg Gly Asp Leu Ala Thr Ile His Gly Met
210 215 220

Asn Arg Pro Phe Leu Leu Leu Met Ala Thr Pro Leu Glu Arg Ala Gln
225 230 235 240

His Leu Gln Ser Ser Arg His Arg Arg
245

<210> 40
<211> 360
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético: proTGF-beta-1 C4S D2G

<400> 40

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

Ile Glu Ala Ile Arg Gly Gln Ile Leu Ser Lys Leu Arg Leu Ala Ser
20 25 30

Pro Pro Ser Gln Gly Glu Val Pro Pro Gly Pro Leu Pro Glu Ala Val
35 40 45

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

Asp Pro Glu Pro Glu Pro Glu Ala Asp Tyr Tyr Ala Lys Glu Val Thr
65 70 75 80

Arg Val Leu Met Val Asp Arg Asn Asn Ala Ile Tyr Glu Lys Thr Lys
85 90 95

Asp Ile Ser His Ser Ile Tyr Met Phe Phe Asn Thr Ser Asp Ile Arg
100 105 110

Glu Ala Val Pro Glu Pro Pro Leu Leu Ser Arg Ala Glu Leu Arg Leu
115 120 125

Gln Arg Leu Lys Ser Ser Val Glu Gln His Val Glu Leu Tyr Gln Lys
130 135 140

Tyr Ser Asn Asn Ser Trp Arg Tyr Leu Gly Asn Arg Leu Leu Thr Pro
145 150 155 160

Thr Asp Thr Pro Glu Trp Leu Ser Phe Asp Val Thr Gly Val Val Arg
 165 170 175
 Gln Trp Leu Asn Gln Gly Asp Gly Ile Gln Gly Phe Arg Phe Ser Ala
 180 185 190
 His Cys Ser Cys Asp Ser Lys Asp Asn Lys Leu His Val Glu Ile Asn
 195 200 205
 Gly Ile Ser Pro Lys Arg Arg Gly Asp Leu Gly Thr Ile His Asp Met
 210 215 220
 Asn Arg Pro Phe Leu Leu Leu Met Ala Thr Pro Leu Glu Arg Ala Gln
 225 230 235 240
 His Leu His Ser Ser Arg His Gly Ala Leu Asp Thr Asn Tyr Cys Phe
 245 250 255
 Ser Ser Thr Glu Lys Asn Cys Cys Val Arg Gln Leu Tyr Ile Asp Phe
 260 265 270
 Arg Lys Asp Leu Gly Trp Lys Trp Ile His Glu Pro Lys Gly Tyr His
 275 280 285
 Ala Asn Phe Cys Leu Gly Pro Cys Pro Tyr Ile Trp Ser Leu Asp Thr
 290 295 300
 Gln Tyr Ser Lys Val Leu Ala Leu Tyr Asn Gln His Asn Pro Gly Ala
 305 310 315 320
 Ser Ala Ser Pro Cys Cys Val Pro Gln Ala Leu Glu Pro Leu Pro Ile
 325 330 335
 Val Tyr Tyr Val Gly Arg Lys Pro Lys Val Glu Gln Leu Ser Asn Met
 340 345 350
 Ile Val Arg Ser Cys Lys Cys Ser
 355 360
 <210> 41
 <211> 361
 <212> PRT
 <213> Secuencia Artificial
 <220>
 <223> Sintético: proTGF-beta-1 C4S
 <400> 41
 Leu Ser Thr Ser Lys Thr Ile Asp Met Glu Leu Val Lys Arg Lys Arg
 1 5 10 15
 Ile Glu Ala Ile Arg Gly Gln Ile Leu Ser Lys Leu Arg Leu Ala Ser
 20 25 30
 Pro Pro Ser Gln Gly Glu Val Pro Pro Gly Pro Leu Pro Glu Ala Val
 35 40 45
 Leu Ala Leu Tyr Asn Ser Thr Arg Asp Arg Val Ala Gly Glu Ser Ala
 50 55 60
 Asp Pro Glu Pro Glu Pro Glu Ala Asp Tyr Tyr Ala Lys Glu Val Thr
 65 70 75 80
 Arg Val Leu Met Val Asp Arg Asn Asn Ala Ile Tyr Glu Lys Thr Lys
 85 90 95
 Asp Ile Ser His Ser Ile Tyr Met Phe Phe Asn Thr Ser Asp Ile Arg
 100 105 110
 Glu Ala Val Pro Glu Pro Pro Leu Leu Ser Arg Ala Glu Leu Arg Leu
 115 120 125
 Gln Arg Leu Lys Ser Ser Val Glu Gln His Val Glu Leu Tyr Gln Lys
 130 135 140
 Tyr Ser Asn Asn Ser Trp Arg Tyr Leu Gly Asn Arg Leu Leu Thr Pro
 145 150 155 160

Thr Asp Thr Pro Glu Trp Leu Ser Phe Asp Val Thr Gly Val Val Arg
165 170 175

Gln Trp Leu Asn Gln Gly Asp Gly Ile Gln Gly Phe Arg Phe Ser Ala
180 185 190

His Cys Ser Cys Asp Ser Lys Asp Asn Lys Leu His Val Glu Ile Asn
195 200 205

Gly Ile Ser Pro Lys Arg Arg Gly Asp Leu Gly Thr Ile His Asp Met
210 215 220

Asn Arg Pro Phe Leu Leu Leu Met Ala Thr Pro Leu Glu Arg Ala Gln
225 230 235 240

His Leu His Ser Ser Arg His Arg Arg Ala Leu Asp Thr Asn Tyr Cys
245 250 255

Phe Ser Ser Thr Glu Lys Asn Cys Cys Val Arg Gln Leu Tyr Ile Asp
260 265 270

Phe Arg Lys Asp Leu Gly Trp Lys Trp Ile His Glu Pro Lys Gly Tyr
275 280 285

His Ala Asn Phe Cys Leu Gly Pro Cys Pro Tyr Ile Trp Ser Leu Asp
290 295 300

Thr Gln Tyr Ser Lys Val Leu Ala Leu Tyr Asn Gln His Asn Pro Gly
305 310 315 320

Ala Ser Ala Ser Pro Cys Cys Val Pro Gln Ala Leu Glu Pro Leu Pro
325 330 335

Ile Val Tyr Tyr Val Gly Arg Lys Pro Lys Val Glu Gln Leu Ser Asn
340 345 350

Met Ile Val Arg Ser Cys Lys Cys Ser
355 360

<210> 42
<211> 361
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético: proTGF-beta-1 C4S

<400> 42

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

Ile Glu Ala Ile Arg Gly Gln Ile Leu Ser Lys Leu Arg Leu Ala Ser
20 25 30

Pro Pro Ser Gln Gly Glu Val Pro Pro Gly Pro Leu Pro Glu Ala Val
35 40 45

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

Glu Pro Glu Pro Glu Pro Glu Ala Asp Tyr Tyr Ala Lys Glu Val Thr
65 70 75 80

Arg Val Leu Met Val Glu Thr His Asn Glu Ile Tyr Asp Lys Phe Lys
85 90 95

Gln Ser Thr His Ser Ile Tyr Met Phe Phe Asn Thr Ser Glu Leu Arg
100 105 110

Glu Ala Val Pro Glu Pro Val Leu Leu Ser Arg Ala Glu Leu Arg Leu
115 120 125

Leu Arg Leu Lys Leu Lys Val Glu Gln His Val Glu Leu Tyr Gln Lys
130 135 140

Tyr Ser Asn Asn Ser Trp Arg Tyr Leu Ser Asn Arg Leu Leu Ala Pro
145 150 155 160

Ser Asp Ser Pro Glu Trp Leu Ser Phe Asp Val Thr Gly Val Val Arg
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165

170

175

Gln Trp Leu Ser Arg Gly Gly Glu Ile Glu Gly Phe Arg Leu Ser Ala
180 185 190

His Cys Ser Cys Asp Ser Lys Asp Asn Thr Leu Gln Val Asp Ile Asn
195 200 205

Gly Phe Thr Thr Gly Arg Arg Gly Asp Leu Ala Thr Ile His Gly Met
210 215 220

Asn Arg Pro Phe Leu Leu Leu Met Ala Thr Pro Leu Glu Arg Ala Gln
225 230 235 240

His Leu Gln Ser Ser Arg His Arg Arg Ala Leu Asp Thr Asn Tyr Cys
245 250 255

Phe Ser Ser Thr Glu Lys Asn Cys Cys Val Arg Gln Leu Tyr Ile Asp
260 265 270

Phe Arg Lys Asp Leu Gly Trp Lys Trp Ile His Glu Pro Lys Gly Tyr
275 280 285

His Ala Asn Phe Cys Leu Gly Pro Cys Pro Tyr Ile Trp Ser Leu Asp
290 295 300

Thr Gln Tyr Ser Lys Val Leu Ala Leu Tyr Asn Gln His Asn Pro Gly
305 310 315 320

Ala Ser Ala Ala Pro Cys Cys Val Pro Gln Ala Leu Glu Pro Leu Pro
325 330 335

Ile Val Tyr Tyr Val Gly Arg Lys Pro Lys Val Glu Gln Leu Ser Asn
340 345 350

Met Ile Val Arg Ser Cys Lys Cys Ser
355 360

<210> 43
<211> 360
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético: proTGF-beta-1 C4S D2G

<400> 43

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

Ile Glu Ala Ile Arg Gly Gln Ile Leu Ser Lys Leu Arg Leu Ala Ser
20 25 30

Pro Pro Ser Gln Gly Glu Val Pro Pro Gly Pro Leu Pro Glu Ala Val
35 40 45

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

Glu Pro Glu Pro Glu Pro Glu Ala Asp Tyr Tyr Ala Lys Glu Val Thr
65 70 75 80

Arg Val Leu Met Val Glu Thr His Asn Glu Ile Tyr Asp Lys Phe Lys
85 90 95

Gln Ser Thr His Ser Ile Tyr Met Phe Phe Asn Thr Ser Glu Leu Arg
100 105 110

Glu Ala Val Pro Glu Pro Val Leu Leu Ser Arg Ala Glu Leu Arg Leu
115 120 125

Leu Arg Leu Lys Leu Lys Val Glu Gln His Val Glu Leu Tyr Gln Lys
130 135 140

Tyr Ser Asn Asn Ser Trp Arg Tyr Leu Ser Asn Arg Leu Leu Ala Pro
145 150 155 160

Ser Asp Ser Pro Glu Trp Leu Ser Phe Asp Val Thr Gly Val Val Arg
165 170 175

Gln Trp Leu Ser Arg Gly Gly Glu Ile Glu Gly Phe Arg Leu Ser Ala
180 185 190

His Cys Ser Cys Asp Ser Lys Asp Asn Thr Leu Gln Val Asp Ile Asn
195 200 205

Gly Phe Thr Thr Gly Arg Arg Gly Asp Leu Ala Thr Ile His Gly Met
210 215 220

Asn Arg Pro Phe Leu Leu Leu Met Ala Thr Pro Leu Glu Arg Ala Gln
225 230 235 240

His Leu Gln Ser Ser Arg His Gly Ala Leu Asp Thr Asn Tyr Cys Phe
245 250 255

Ser Ser Thr Glu Lys Asn Cys Cys Val Arg Gln Leu Tyr Ile Asp Phe
260 265 270

Arg Lys Asp Leu Gly Trp Lys Trp Ile His Glu Pro Lys Gly Tyr His
275 280 285

Ala Asn Phe Cys Leu Gly Pro Cys Pro Tyr Ile Trp Ser Leu Asp Thr
290 295 300

Gln Tyr Ser Lys Val Leu Ala Leu Tyr Asn Gln His Asn Pro Gly Ala
305 310 315 320

Ser Ala Ala Pro Cys Cys Val Pro Gln Ala Leu Glu Pro Leu Pro Ile
325 330 335

Val Tyr Tyr Val Gly Arg Lys Pro Lys Val Glu Gln Leu Ser Asn Met
340 345 350

Ile Val Arg Ser Cys Lys Cys Ser
355 360

<210> 44
<211> 1260
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético: LTBP3

<400> 44

Gly Pro Ala Gly Glu Arg Gly Ala Gly Gly Gly Gly Ala Leu Ala Arg
1 5 10 15

Glu Arg Phe Lys Val Val Phe Ala Pro Val Ile Cys Lys Arg Thr Cys
20 25 30

Leu Lys Gly Gln Cys Arg Asp Ser Cys Gln Gln Gly Ser Asn Met Thr
35 40 45

Leu Ile Gly Glu Asn Gly His Ser Thr Asp Thr Leu Thr Gly Ser Gly
50 55 60

Phe Arg Val Val Val Cys Pro Leu Pro Cys Met Asn Gly Gly Gln Cys
65 70 75 80

Ser Ser Arg Asn Gln Cys Leu Cys Pro Pro Asp Phe Thr Gly Arg Phe
85 90 95

Cys Gln Val Pro Ala Gly Gly Ala Gly Gly Gly Thr Gly Gly Ser Gly
100 105 110

Pro Gly Leu Ser Arg Ala Gly Ala Leu Ser Thr Gly Ala Leu Pro Pro
115 120 125

Leu Ala Pro Glu Gly Asp Ser Val Ala Ser Lys His Ala Ile Tyr Ala
130 135 140

Val Gln Val Ile Ala Asp Pro Pro Gly Pro Gly Glu Gly Pro Pro Ala
145 150 155 160

Gln His Ala Ala Phe Leu Val Pro Leu Gly Pro Gly Gln Ile Ser Ala
165 170 175

Glu Val Gln Ala Pro Pro Pro Val Val Asn Val Arg Val His His Pro
 180 185 190
 Pro Glu Ala Ser Val Gln Val His Arg Ile Glu Ser Ser Asn Ala Glu
 195 200 205
 Gly Ala Ala Pro Ser Gln His Leu Leu Pro His Pro Lys Pro Ser His
 210 215 220
 Pro Arg Pro Pro Thr Gln Lys Pro Leu Gly Arg Cys Phe Gln Asp Thr
 225 230 235 240
 Leu Pro Lys Gln Pro Cys Gly Ser Asn Pro Leu Pro Gly Leu Thr Lys
 245 250 255
 Gln Glu Asp Cys Cys Gly Ser Ile Gly Thr Ala Trp Gly Gln Ser Lys
 260 265 270
 Cys His Lys Cys Pro Gln Leu Gln Tyr Thr Gly Val Gln Lys Pro Gly
 275 280 285
 Pro Val Arg Gly Glu Val Gly Ala Asp Cys Pro Gln Gly Tyr Lys Arg
 290 295 300
 Leu Asn Ser Thr His Cys Gln Asp Ile Asn Glu Cys Ala Met Pro Gly
 305 310 315 320
 Val Cys Arg His Gly Asp Cys Leu Asn Asn Pro Gly Ser Tyr Arg Cys
 325 330 335
 Val Cys Pro Pro Gly His Ser Leu Gly Pro Ser Arg Thr Gln Cys Ile
 340 345 350
 Ala Asp Lys Pro Glu Glu Lys Ser Leu Cys Phe Arg Leu Val Ser Pro
 355 360 365
 Glu His Gln Cys Gln His Pro Leu Thr Thr Arg Leu Thr Arg Gln Leu
 370 375 380
 Cys Cys Cys Ser Val Gly Lys Ala Trp Gly Ala Arg Cys Gln Arg Cys
 385 390 395 400
 Pro Ala Asp Gly Thr Ala Ala Phe Lys Glu Ile Cys Pro Ala Gly Lys
 405 410 415
 Gly Tyr His Ile Leu Thr Ser His Gln Thr Leu Thr Ile Gln Gly Glu
 420 425 430
 Ser Asp Phe Ser Leu Phe Leu His Pro Asp Gly Pro Pro Lys Pro Gln
 435 440 445
 Gln Leu Pro Glu Ser Pro Ser Gln Ala Pro Pro Pro Glu Asp Thr Glu
 450 455 460
 Glu Glu Arg Gly Val Thr Thr Asp Ser Pro Val Ser Glu Glu Arg Ser
 465 470 475 480
 Val Gln Gln Ser His Pro Thr Ala Thr Thr Ser Pro Ala Arg Pro Tyr
 485 490 495
 Pro Glu Leu Ile Ser Arg Pro Ser Pro Pro Thr Met Arg Trp Phe Leu
 500 505 510
 Pro Asp Leu Pro Pro Ser Arg Ser Ala Val Glu Ile Ala Pro Thr Gln
 515 520 525
 Val Thr Glu Thr Asp Glu Cys Arg Leu Asn Gln Asn Ile Cys Gly His
 530 535 540
 Gly Glu Cys Val Pro Gly Pro Pro Asp Tyr Ser Cys His Cys Asn Pro
 545 550 555 560
 Gly Tyr Arg Ser His Pro Gln His Arg Tyr Cys Val Asp Val Asn Glu
 565 570 575
 Cys Glu Ala Glu Pro Cys Gly Pro Gly Arg Gly Ile Cys Met Asn Thr
 580 585 590

Gly Gly Ser Tyr Asn Cys His Cys Asn Arg Gly Tyr Arg Leu His Val
 595 600 605
 Gly Ala Gly Gly Arg Ser Cys Val Asp Leu Asn Glu Cys Ala Lys Pro
 610 615 620
 His Leu Cys Gly Asp Gly Gly Phe Cys Ile Asn Phe Pro Gly His Tyr
 625 630 635 640
 Lys Cys Asn Cys Tyr Pro Gly Tyr Arg Leu Lys Ala Ser Arg Pro Pro
 645 650 655
 Val Cys Glu Asp Ile Asp Glu Cys Arg Asp Pro Ser Ser Cys Pro Asp
 660 665 670
 Gly Lys Cys Glu Asn Lys Pro Gly Ser Phe Lys Cys Ile Ala Cys Gln
 675 680 685
 Pro Gly Tyr Arg Ser Gln Gly Gly Gly Ala Cys Arg Asp Val Asn Glu
 690 700
 Cys Ala Glu Gly Ser Pro Cys Ser Pro Gly Trp Cys Glu Asn Leu Pro
 705 710 715 720
 Gly Ser Phe Arg Cys Thr Cys Ala Gln Gly Tyr Ala Pro Ala Pro Asp
 725 730 735
 Gly Arg Ser Cys Val Asp Val Asp Glu Cys Glu Ala Gly Asp Val Cys
 740 745 750
 Asp Asn Gly Ile Cys Thr Asn Thr Pro Gly Ser Phe Gln Cys Gln Cys
 755 760 765
 Leu Ser Gly Tyr His Leu Ser Arg Asp Arg Ser His Cys Glu Asp Ile
 770 775 780
 Asp Glu Cys Asp Phe Pro Ala Ala Cys Ile Gly Gly Asp Cys Ile Asn
 785 790 795 800
 Thr Asn Gly Ser Tyr Arg Cys Leu Cys Pro Gln Gly His Arg Leu Val
 805 810 815
 Gly Gly Arg Lys Cys Gln Asp Ile Asp Glu Cys Thr Gln Asp Pro Gly
 820 825 830
 Leu Cys Leu Pro His Gly Ala Cys Lys Asn Leu Gln Gly Ser Tyr Val
 835 840 845
 Cys Val Cys Asp Glu Gly Phe Thr Pro Thr Gln Asp Gln His Gly Cys
 850 855 860
 Glu Glu Val Glu Gln Pro His His Lys Lys Glu Cys Tyr Leu Asn Phe
 865 870 875 880
 Asp Asp Thr Val Phe Cys Asp Ser Val Leu Ala Thr Asn Val Thr Gln
 885 890 895
 Gln Glu Cys Cys Cys Ser Leu Gly Ala Gly Trp Gly Asp His Cys Glu
 900 905 910
 Ile Tyr Pro Cys Pro Val Tyr Ser Ser Ala Glu Phe His Ser Leu Cys
 915 920 925
 Pro Asp Gly Lys Gly Tyr Thr Gln Asp Asn Asn Ile Val Asn Tyr Gly
 930 935 940
 Ile Pro Ala His Arg Asp Ile Asp Glu Cys Met Leu Phe Gly Ala Glu
 945 950 955 960
 Ile Cys Lys Glu Gly Lys Cys Val Asn Thr Gln Pro Gly Tyr Glu Cys
 965 970 975
 Tyr Cys Lys Gln Gly Phe Tyr Tyr Asp Gly Asn Leu Leu Glu Cys Val
 980 985 990
 Asp Val Asp Glu Cys Leu Asp Glu Ser Asn Cys Arg Asn Gly Val Cys

995

1000

1005

Glu Asn Thr Arg Gly Gly Tyr Arg Cys Ala Cys Thr Pro Pro Ala
1010 1015 1020

Glu Tyr Ser Pro Ala Gln Arg Gln Cys Leu Ser Pro Glu Glu Met
1025 1030 1035

Asp Val Asp Glu Cys Gln Asp Pro Ala Ala Cys Arg Pro Gly Arg
1040 1045 1050

Cys Val Asn Leu Pro Gly Ser Tyr Arg Cys Glu Cys Arg Pro Pro
1055 1060 1065

Trp Val Pro Gly Pro Ser Gly Arg Asp Cys Gln Leu Pro Glu Ser
1070 1075 1080

Pro Ala Glu Arg Ala Pro Glu Arg Arg Asp Val Cys Trp Ser Gln
1085 1090 1095

Arg Gly Glu Asp Gly Met Cys Ala Gly Pro Gln Ala Gly Pro Ala
1100 1105 1110

Leu Thr Phe Asp Asp Cys Cys Cys Arg Gln Gly Arg Gly Trp Gly
1115 1120 1125

Ala Gln Cys Arg Pro Cys Pro Pro Arg Gly Ala Gly Ser Gln Cys
1130 1135 1140

Pro Thr Ser Gln Ser Glu Ser Asn Ser Phe Trp Asp Thr Ser Pro
1145 1150 1155

Leu Leu Leu Gly Lys Pro Arg Arg Asp Glu Asp Ser Ser Glu Glu
1160 1165 1170

Asp Ser Asp Glu Cys Arg Cys Val Ser Gly Arg Cys Val Pro Arg
1175 1180 1185

Pro Gly Gly Ala Val Cys Glu Cys Pro Gly Gly Phe Gln Leu Asp
1190 1195 1200

Ala Ser Arg Ala Arg Cys Val Asp Ile Asp Glu Cys Arg Glu Leu
1205 1210 1215

Asn Gln Arg Gly Leu Leu Cys Lys Ser Glu Arg Cys Val Asn Thr
1220 1225 1230

Ser Gly Ser Phe Arg Cys Val Cys Lys Ala Gly Phe Ala Arg Ser
1235 1240 1245

Arg Pro His Gly Ala Cys Val Pro Gln Arg Arg Arg
1250 1255 1260

<210> 45
<211> 1228
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético: LTBP3

<400> 45

Gly Pro Ala Gly Glu Arg Gly Thr Gly Gly Gly Gly Ala Leu Ala Arg
1 5 10 15

Glu Arg Phe Lys Val Val Phe Ala Pro Val Ile Cys Lys Arg Thr Cys
20 25 30

Leu Lys Gly Gln Cys Arg Asp Ser Cys Gln Gln Gly Ser Asn Met Thr
35 40 45

Leu Ile Gly Glu Asn Gly His Ser Thr Asp Thr Leu Thr Gly Ser Ala
50 55 60

Phe Arg Val Val Val Cys Pro Leu Pro Cys Met Asn Gly Gly Gln Cys
65 70 75 80

Ser Ser Arg Asn Gln Cys Leu Cys Pro Pro Asp Phe Thr Gly Arg Phe
85 90 95

Cys Gln Val Pro Ala Ala Gly Thr Gly Ala Gly Thr Gly Ser Ser Gly
 100 105 110
 Pro Gly Leu Ala Arg Thr Gly Ala Met Ser Thr Gly Pro Leu Pro Pro
 115 120 125
 Leu Ala Pro Glu Gly Glu Ser Val Ala Ser Lys His Ala Ile Tyr Ala
 130 135 140
 Val Gln Val Ile Ala Asp Pro Pro Gly Pro Gly Glu Gly Pro Pro Ala
 145 150 155 160
 Gln His Ala Ala Phe Leu Val Pro Leu Gly Pro Gly Gln Ile Ser Ala
 165 170 175
 Glu Val Gln Ala Pro Pro Pro Val Val Asn Val Arg Val His His Pro
 180 185 190
 Pro Glu Ala Ser Val Gln Val His Arg Ile Glu Gly Pro Asn Ala Glu
 195 200 205
 Gly Pro Ala Ser Ser Gln His Leu Leu Pro His Pro Lys Pro Pro His
 210 215 220
 Pro Arg Pro Pro Thr Gln Lys Pro Leu Gly Arg Cys Phe Gln Asp Thr
 225 230 235 240
 Leu Pro Lys Gln Pro Cys Gly Ser Asn Pro Leu Pro Gly Leu Thr Lys
 245 250 255
 Gln Glu Asp Cys Cys Gly Ser Ile Gly Thr Ala Trp Gly Gln Ser Lys
 260 265 270
 Cys His Lys Cys Pro Gln Leu Gln Tyr Thr Gly Val Gln Lys Pro Val
 275 280 285
 Pro Val Arg Gly Glu Val Gly Ala Asp Cys Pro Gln Gly Tyr Lys Arg
 290 295 300
 Leu Asn Ser Thr His Cys Gln Asp Ile Asn Glu Cys Ala Met Pro Gly
 305 310 315 320
 Asn Val Cys His Gly Asp Cys Leu Asn Asn Pro Gly Ser Tyr Arg Cys
 325 330 335
 Val Cys Pro Pro Gly His Ser Leu Gly Pro Leu Ala Ala Gln Cys Ile
 340 345 350
 Ala Asp Lys Pro Glu Glu Lys Ser Leu Cys Phe Arg Leu Val Ser Thr
 355 360 365
 Glu His Gln Cys Gln His Pro Leu Thr Thr Arg Leu Thr Arg Gln Leu
 370 375 380
 Cys Cys Cys Ser Val Gly Lys Ala Trp Gly Ala Arg Cys Gln Arg Cys
 385 390 395 400
 Pro Ala Asp Gly Thr Ala Ala Phe Lys Glu Ile Cys Pro Gly Lys Gly
 405 410 415
 Tyr His Ile Leu Thr Ser His Gln Thr Leu Thr Ile Gln Gly Glu Ser
 420 425 430
 Asp Phe Ser Leu Phe Leu His Pro Asp Gly Pro Pro Lys Pro Gln Gln
 435 440 445
 Leu Pro Glu Ser Pro Ser Arg Ala Pro Pro Leu Glu Asp Thr Glu Glu
 450 455 460
 Glu Arg Gly Val Thr Met Asp Pro Pro Val Ser Glu Glu Arg Ser Val
 465 470 475 480
 Gln Gln Ser His Pro Thr Thr Thr Thr Ser Pro Pro Arg Pro Tyr Pro
 485 490 495
 Glu Leu Ile Ser Arg Pro Ser Pro Pro Thr Phe His Arg Phe Leu Pro

500

505

510

Asp Leu Pro 515 Pro Ser Arg Ser Ala 520 Val Glu Ile Ala Pro 525 Thr Gln Val
 Thr Glu 530 Thr Asp Glu Cys Arg 535 Leu Asn Gln Asn Ile 540 Cys Gly His Gly
 Gln Cys Val Pro Gly Pro 550 Ser Asp Tyr Ser Cys 555 His Cys Asn Ala Gly 560
 Tyr Arg Ser His Pro 565 Gln His Arg Tyr Cys 570 Val Asp Val Asn Glu 575 Cys
 Glu Ala Glu Pro 580 Cys Gly Pro Gly Lys 585 Gly Ile Cys Met Asn Thr Gly 590
 Gly Ser Tyr 595 Asn Cys His Cys Asn 600 Arg Gly Tyr Arg Leu His Val Gly 605
 Ala Gly 610 Gly Arg Ser Cys Val 615 Asp Leu Asn Glu Cys 620 Ala Lys Pro His
 Leu Cys Gly Asp Gly 630 Phe Cys Ile Asn Phe 635 Pro Gly His Tyr Lys 640
 Cys Asn Cys Tyr Pro 645 Gly Tyr Arg Leu Lys 650 Ala Ser Arg Pro Pro Ile 655
 Cys Glu Asp Ile 660 Asp Glu Cys Arg Asp 665 Pro Ser Thr Cys Pro 670 Asp Gly
 Lys Cys Glu 675 Asn Lys Pro Gly Ser 680 Phe Lys Cys Ile Ala 685 Cys Gln Pro
 Gly Tyr 690 Arg Ser Gln Gly Gly 695 Gly Ala Cys Arg Asp 700 Val Asn Glu Cys
 Ser Glu Gly Thr Pro Cys 710 Ser Pro Gly Trp Cys 715 Glu Asn Leu Pro Gly 720
 Ser Tyr Arg Cys Thr 725 Cys Ala Gln Tyr Glu 730 Pro Ala Gln Asp Gly 735 Leu
 Ser Cys Ile Asp Val 740 Asp Glu Cys Glu 745 Ala Gly Lys Val Cys 750 Gln Asp
 Gly Ile Cys 755 Thr Asn Thr Pro Gly 760 Ser Phe Gln Cys Gln 765 Cys Leu Ser
 Gly Tyr His Leu Ser Arg Asp 775 Arg Ser Arg Cys Glu 780 Asp Ile Asp Glu
 Cys Asp Phe Pro Ala Ala 790 Cys Ile Gly Gly Asp 795 Cys Ile Asn Thr Asn 800
 Gly Ser Tyr Arg Cys 805 Leu Cys Pro Leu Gly 810 His Arg Leu Val Gly 815 Gly
 Arg Lys Cys Lys 820 Lys Asp Ile Asp Glu 825 Cys Ser Gln Asp Pro 830 Gly Leu
 Cys Leu Pro 835 His Ala Cys Glu Asn 840 Leu Gln Gly Ser Tyr 845 Val Cys Val
 Cys Asp Glu Gly Phe Thr Leu 855 Thr Gln Asp Gln His 860 Gly Cys Glu Glu
 Val Glu Gln Pro His His 870 Lys Lys Glu Cys Tyr 875 Leu Asn Phe Asp Asp 880
 Thr Val Phe Cys Asp 885 Ser Val Leu Ala Thr 890 Asn Val Thr Gln Gln Glu 895
 Cys Cys Cys Ser 900 Leu Gly Ala Gly Trp 905 Gly Asp His Cys Glu 910 Ile Tyr

Pro Cys Pro Val Tyr Ser Ser Ala Glu Phe His Ser Leu Val Pro Asp
915 920 925

Gly Lys Arg Leu His Ser Gly Gln Gln His Cys Glu Leu Cys Ile Pro
930 935 940

Ala His Arg Asp Ile Asp Glu Cys Ile Leu Phe Gly Ala Glu Ile Cys
945 950 955 960

Lys Glu Gly Lys Cys Val Asn Thr Gln Pro Gly Tyr Glu Cys Tyr Cys
965 970 975

Lys Gln Gly Phe Tyr Tyr Asp Gly Asn Leu Leu Glu Cys Val Asp Val
980 985 990

Asp Glu Cys Leu Asp Glu Ser Asn Cys Arg Asn Gly Val Cys Glu Asn
995 1000 1005

Thr Arg Gly Gly Tyr Arg Cys Ala Cys Thr Pro Pro Ala Glu Tyr
1010 1015 1020

Ser Pro Ala Gln Ala Gln Cys Leu Ile Pro Glu Arg Trp Ser Thr
1025 1030 1035

Pro Gln Arg Asp Val Lys Cys Ala Gly Ala Ser Glu Glu Arg Thr
1040 1045 1050

Ala Cys Val Trp Gly Pro Trp Ala Gly Pro Ala Leu Thr Phe Asp
1055 1060 1065

Asp Cys Cys Cys Arg Gln Pro Arg Leu Gly Thr Gln Cys Arg Pro
1070 1075 1080

Cys Pro Pro Arg Gly Thr Gly Ser Gln Cys Pro Thr Ser Gln Ser
1085 1090 1095

Glu Ser Asn Ser Phe Trp Asp Thr Ser Pro Leu Leu Leu Gly Lys
1100 1105 1110

Ser Pro Arg Asp Glu Asp Ser Ser Glu Glu Asp Ser Asp Glu Cys
1115 1120 1125

Arg Cys Val Ser Gly Arg Cys Val Pro Arg Pro Gly Gly Ala Val
1130 1135 1140

Cys Glu Cys Pro Gly Gly Phe Gln Leu Asp Ala Ser Arg Ala Arg
1145 1150 1155

Cys Val Asp Ile Asp Glu Cys Arg Glu Leu Asn Gln Arg Gly Leu
1160 1165 1170

Leu Cys Lys Ser Glu Arg Cys Val Asn Thr Ser Gly Ser Phe Arg
1175 1180 1185

Cys Val Cys Lys Ala Gly Phe Thr Arg Ser Arg Pro His Gly Pro
1190 1195 1200

Ala Cys Leu Ser Ala Ala Ala Asp Asp Ala Ala Ile Ala His Thr
1205 1210 1215

Ser Val Ile Asp His Arg Gly Tyr Phe His
1220 1225

<210> 46
<211> 1373
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético: LTBP1S

<400> 46

Asn His Thr Gly Arg Ile Lys Val Val Phe Thr Pro Ser Ile Cys Lys
1 5 10 15

Val Thr Cys Thr Lys Gly Ser Cys Gln Asn Ser Cys Glu Lys Gly Asn
20 25 30

Thr Thr Thr Leu Ile Ser Glu Asn Gly His Ala Ala Asp Thr Leu Thr

35

40

45

Ala Thr Asn Phe Arg Val Val Leu Cys His Leu Pro Cys Met Asn Gly
50 55 60

Gly Gln Cys Ser Ser Arg Asp Lys Cys Gln Cys Pro Pro Asn Phe Thr
65 70 75 80

Gly Lys Leu Cys Gln Ile Pro Val His Gly Ala Ser Val Pro Lys Leu
85 90 95

Tyr Gln His Ser Gln Gln Pro Gly Lys Ala Leu Gly Thr His Val Ile
100 105 110

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

Lys Val Lys Phe Pro Pro Asn Ile Val Asn Ile His Val Lys His Pro
130 135 140

Pro Glu Ala Ser Val Gln Ile His Gln Val Ser Arg Ile Asp Gly Pro
145 150 155 160

Thr Gly Gln Lys Thr Lys Glu Ala Gln Pro Gly Gln Ser Gln Val Ser
165 170 175

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

Ser His Gln Gln Val Ile Pro His Val Tyr Pro Val Ala Ala Lys Thr
195 200 205

Gln Leu Gly Arg Cys Phe Gln Glu Thr Ile Gly Ser Gln Cys Gly Lys
210 215 220

Ala Leu Pro Gly Leu Ser Lys Gln Glu Asp Cys Cys Gly Thr Val Gly
225 230 235 240

Thr Ser Trp Gly Phe Asn Lys Cys Gln Lys Cys Pro Lys Lys Pro Ser
245 250 255

Tyr His Gly Tyr Asn Gln Met Met Glu Cys Leu Pro Gly Tyr Lys Arg
260 265 270

Val Asn Asn Thr Phe Cys Gln Asp Ile Asn Glu Cys Gln Leu Gln Gly
275 280 285

Val Cys Pro Asn Gly Glu Cys Leu Asn Thr Met Gly Ser Tyr Arg Cys
290 295 300

Thr Cys Lys Ile Gly Phe Gly Pro Asp Pro Thr Phe Ser Ser Cys Val
305 310 315 320

Pro Asp Pro Pro Val Ile Ser Glu Glu Lys Gly Pro Cys Tyr Arg Leu
325 330 335

Val Ser Ser Gly Arg Gln Cys Met His Pro Leu Ser Val His Leu Thr
340 345 350

Lys Gln Leu Cys Cys Cys Ser Val Gly Lys Ala Trp Gly Pro His Cys
355 360 365

Glu Lys Cys Pro Leu Pro Gly Thr Ala Ala Phe Lys Glu Ile Cys Pro
370 375 380

Gly Gly Met Gly Tyr Thr Val Ser Gly Val His Arg Arg Arg Pro Ile
385 390 395 400

His His His Val Gly Lys Gly Pro Val Phe Val Lys Pro Lys Asn Thr
405 410 415

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

Glu Pro Val Glu Ala Leu Thr Phe Ser Arg Glu His Gly Pro Gly Val
435 440 445

Ala Glu Pro Glu Val Ala Thr Ala Pro Pro Glu Lys Glu Ile Pro Ser
 450 455 460

Leu Asp Gln Glu Lys Thr Lys Leu Glu Pro Gly Gln Pro Gln Leu Ser
 465 470 475 480

Pro Gly Ile Ser Thr Ile His Leu His Pro Gln Phe Pro Val Val Ile
 485 490 495

Glu Lys Thr Ser Pro Pro Val Pro Val Glu Val Ala Pro Glu Ala Ser
 500 505 510

Thr Ser Ser Ala Ser Gln Val Ile Ala Pro Thr Gln Val Thr Glu Ile
 515 520 525

Asn Glu Cys Thr Val Asn Pro Asp Ile Cys Gly Ala Gly His Cys Ile
 530 535 540

Asn Leu Pro Val Arg Tyr Thr Cys Ile Cys Tyr Glu Gly Tyr Lys Phe
 545 550 555 560

Ser Glu Gln Gln Arg Lys Cys Val Asp Ile Asp Glu Cys Thr Gln Val
 565 570 575

Gln His Leu Cys Ser Gln Gly Arg Cys Glu Asn Thr Glu Gly Ser Phe
 580 585 590

Leu Cys Ile Cys Pro Ala Gly Phe Met Ala Ser Glu Glu Gly Thr Asn
 595 600 605

Cys Ile Asp Val Asp Glu Cys Leu Arg Pro Asp Val Cys Gly Glu Gly
 610 615 620

His Cys Val Asn Thr Val Gly Ala Phe Arg Cys Glu Tyr Cys Asp Ser
 625 630 635 640

Gly Tyr Arg Met Thr Gln Arg Gly Arg Cys Glu Asp Ile Asp Glu Cys
 645 650 655

Leu Asn Pro Ser Thr Cys Pro Asp Glu Gln Cys Val Asn Ser Pro Gly
 660 665 670

Ser Tyr Gln Cys Val Pro Cys Thr Glu Gly Phe Arg Gly Trp Asn Gly
 675 680 685

Gln Cys Leu Asp Val Asp Glu Cys Leu Glu Pro Asn Val Cys Thr Asn
 690 695 700

Gly Asp Cys Ser Asn Leu Glu Gly Ser Tyr Met Cys Ser Cys His Lys
 705 710 715 720

Gly Tyr Thr Arg Thr Pro Asp His Lys His Cys Lys Asp Ile Asp Glu
 725 730 735

Cys Gln Gln Gly Asn Leu Cys Val Asn Gly Gln Cys Lys Asn Thr Glu
 740 745 750

Gly Ser Phe Arg Cys Thr Cys Gly Gln Gly Tyr Gln Leu Ser Ala Ala
 755 760 765

Lys Asp Gln Cys Glu Asp Ile Asp Glu Cys Gln His His His Leu Cys
 770 775 780

Ala His Gly Gln Cys Arg Asn Thr Glu Gly Ser Phe Gln Cys Val Cys
 785 790 795 800

Asp Gln Gly Tyr Arg Ala Ser Gly Leu Gly Asp His Cys Glu Asp Ile
 805 810 815

Asn Glu Cys Leu Glu Asp Lys Ser Val Cys Gln Arg Gly Asp Cys Ile
 820 825 830

Asn Thr Ala Gly Ser Tyr Asp Cys Thr Cys Pro Asp Gly Phe Gln Leu
 835 840 845

Asp Asp Asn Lys Thr Cys Gln Asp Ile Asn Glu Cys Glu His Pro Gly
 850 855 860

Leu Cys Gly Pro Gln Gly Glu Cys Leu Asn Thr Glu Gly Ser Phe His
 865 870 875 880
 Cys Val Cys Gln Gln Gly Phe Ser Ile Ser Ala Asp Gly Arg Thr Cys
 885 890 895
 Glu Asp Ile Asp Glu Cys Val Asn Asn Thr Val Cys Asp Ser His Gly
 900 905 910
 Phe Cys Asp Asn Thr Ala Gly Ser Phe Arg Cys Leu Cys Tyr Gln Gly
 915 920 925
 Phe Gln Ala Pro Gln Asp Gly Gln Gly Cys Val Asp Val Asn Glu Cys
 930 935 940
 Glu Leu Leu Ser Gly Val Cys Gly Glu Ala Phe Cys Glu Asn Val Glu
 945 950 955 960
 Gly Ser Phe Leu Cys Val Cys Ala Asp Glu Asn Gln Glu Tyr Ser Pro
 965 970 975
 Met Thr Gly Gln Cys Arg Ser Arg Thr Ser Thr Asp Leu Asp Val Glu
 980 985 990
 Gln Pro Lys Glu Glu Lys Lys Glu Cys Tyr Tyr Asn Leu Asn Asp Ala
 995 1000 1005
 Ser Leu Cys Asp Asn Val Leu Ala Pro Asn Val Thr Lys Gln Glu
 1010 1015 1020
 Cys Cys Cys Thr Ser Gly Ala Gly Trp Gly Asp Asn Cys Glu Ile
 1025 1030 1035
 Phe Pro Cys Pro Val Leu Gly Thr Ala Glu Phe Thr Glu Met Cys
 1040 1045 1050
 Pro Lys Gly Lys Gly Phe Val Pro Ala Gly Glu Ser Ser Ser Glu
 1055 1060 1065
 Ala Gly Gly Glu Asn Tyr Lys Asp Ala Asp Glu Cys Leu Leu Phe
 1070 1075 1080
 Gly Gln Glu Ile Cys Lys Asn Gly Phe Cys Leu Asn Thr Arg Pro
 1085 1090 1095
 Gly Tyr Glu Cys Tyr Cys Lys Gln Gly Thr Tyr Tyr Asp Pro Val
 1100 1105 1110
 Lys Leu Gln Cys Phe Asp Met Asp Glu Cys Gln Asp Pro Ser Ser
 1115 1120 1125
 Cys Ile Asp Gly Gln Cys Val Asn Thr Glu Gly Ser Tyr Asn Cys
 1130 1135 1140
 Phe Cys Thr His Pro Met Val Leu Asp Ala Ser Glu Lys Arg Cys
 1145 1150 1155
 Ile Arg Pro Ala Glu Ser Asn Glu Gln Ile Glu Glu Thr Asp Val
 1160 1165 1170
 Tyr Gln Asp Leu Cys Trp Glu His Leu Ser Asp Glu Tyr Val Cys
 1175 1180 1185
 Ser Arg Pro Leu Val Gly Lys Gln Thr Thr Tyr Thr Glu Cys Cys
 1190 1195 1200
 Cys Leu Tyr Gly Glu Ala Trp Gly Met Gln Cys Ala Leu Cys Pro
 1205 1210 1215
 Met Lys Asp Ser Asp Asp Tyr Ala Gln Leu Cys Asn Ile Pro Val
 1220 1225 1230
 Thr Gly Arg Arg Gln Pro Tyr Gly Arg Asp Ala Leu Val Asp Phe
 1235 1240 1245
 Ser Glu Gln Tyr Ala Pro Glu Ala Asp Pro Tyr Phe Ile Gln Asp
 1250 1255 1260

Arg Phe Leu Asn Ser Phe Glu Glu Leu Gln Ala Glu Glu Cys Gly
 1265 1270 1275

Ile Leu Asn Gly Cys Glu Asn Gly Arg Cys Val Arg Val Gln Glu
 1280 1285 1290

Gly Tyr Thr Cys Asp Cys Phe Asp Gly Tyr His Leu Asp Thr Ala
 1295 1300 1305

Lys Met Thr Cys Val Asp Val Asn Glu Cys Asp Glu Leu Asn Asn
 1310 1315 1320

Arg Met Ser Leu Cys Lys Asn Ala Lys Cys Ile Asn Thr Glu Gly
 1325 1330 1335

Ser Tyr Lys Cys Leu Cys Leu Pro Gly Tyr Val Pro Ser Asp Lys
 1340 1345 1350

Pro Asn Tyr Cys Thr Pro Leu Asn Thr Ala Leu Asn Leu Glu Lys
 1355 1360 1365

Asp Ser Asp Leu Glu
 1370

<210> 47
 <211> 1374
 <212> PRT
 <213> Secuencia Artificial

<220>
 <223> Sintético: LTBP1S

<400> 47

Asn His Thr Gly Arg Ile Lys Val Val Phe Thr Pro Ser Ile Cys Lys
 1 5 10 15

Val Thr Cys Thr Lys Gly Asn Cys Gln Asn Ser Cys Gln Lys Gly Asn
 20 25 30

Thr Thr Thr Leu Ile Ser Glu Asn Gly His Ala Ala Asp Thr Leu Thr
 35 40 45

Ala Thr Asn Phe Arg Val Val Ile Cys His Leu Pro Cys Met Asn Gly
 50 55 60

Gly Gln Cys Ser Ser Arg Asp Lys Cys Gln Cys Pro Pro Asn Phe Thr
 65 70 75 80

Gly Lys Leu Cys Gln Ile Pro Val Leu Gly Ala Ser Met Pro Lys Leu
 85 90 95

Tyr Gln His Ala Gln Gln Gln Gly Lys Ala Leu Gly Ser His Val Ile
 100 105 110

His Ser Thr His Thr Leu Pro Leu Thr Met Thr Ser Gln Gln Gly Val
 115 120 125

Lys Val Lys Phe Pro Pro Asn Ile Val Asn Ile His Val Lys His Pro
 130 135 140

Pro Glu Ala Ser Val Gln Ile His Gln Val Ser Arg Ile Asp Ser Pro
 145 150 155 160

Gly Gly Gln Lys Val Lys Glu Ala Gln Pro Gly Gln Ser Gln Val Ser
 165 170 175

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

Ser His Gln Gln Leu Ile Pro His Val Tyr Pro Val Ala Ala Lys Thr
 195 200 205

Gln Leu Gly Arg Cys Phe Gln Glu Thr Ile Gly Ser Gln Cys Gly Lys
 210 215 220

Ala Leu Pro Gly Leu Ser Lys Gln Glu Asp Cys Cys Gly Thr Val Gly
 225 230 235 240

Thr Ser Trp Gly Phe Asn Lys Cys Gln Lys Cys Pro Lys Lys Gln Ser
 245 250 255
 Tyr His Gly Tyr Thr Gln Met Met Glu Cys Leu Gln Gly Tyr Lys Arg
 260 265 270
 Val Asn Asn Thr Phe Cys Gln Asp Ile Asn Glu Cys Gln Leu Gln Gly
 275 280 285
 Val Cys Pro Asn Gly Glu Cys Leu Asn Thr Met Gly Ser Tyr Arg Cys
 290 300
 Ser Cys Lys Met Gly Phe Gly Pro Asp Pro Thr Phe Ser Ser Cys Val
 305 310 315 320
 Pro Asp Pro Pro Val Ile Ser Glu Glu Lys Gly Pro Cys Tyr Arg Leu
 325 330 335
 Val Ser Pro Gly Arg His Cys Met His Pro Leu Ser Val His Leu Thr
 340 345 350
 Lys Gln Ile Cys Cys Cys Ser Val Gly Lys Ala Trp Gly Pro His Cys
 355 360 365
 Glu Lys Cys Pro Leu Pro Gly Thr Ala Ala Phe Lys Glu Ile Cys Pro
 370 375 380
 Gly Gly Met Gly Tyr Thr Val Ser Gly Val His Arg Arg Arg Pro Ile
 385 390 395 400
 His Gln His Ile Gly Lys Glu Ala Val Tyr Val Lys Pro Lys Asn Thr
 405 410 415
 Gln Pro Val Ala Lys Ser Thr His Pro Pro Pro Leu Pro Ala Lys Glu
 420 425 430
 Glu Pro Val Glu Ala Leu Thr Ser Ser Trp Glu His Gly Pro Arg Gly
 435 440 445
 Ala Glu Pro Glu Val Val Thr Ala Pro Pro Glu Lys Glu Ile Pro Ser
 450 455 460
 Leu Asp Gln Glu Lys Thr Arg Leu Glu Pro Gly Gln Pro Gln Leu Ser
 465 470 475 480
 Pro Gly Val Ser Thr Ile His Leu His Pro Gln Phe Pro Val Val Val
 485 490 495
 Glu Lys Thr Ser Pro Pro Val Pro Val Glu Val Ala Pro Glu Ala Ser
 500 505 510
 Thr Ser Ser Ala Ser Gln Val Ile Ala Pro Thr Gln Val Thr Glu Ile
 515 520 525
 Asn Glu Cys Thr Val Asn Pro Asp Ile Cys Gly Ala Gly His Cys Ile
 530 535 540
 Asn Leu Pro Val Arg Tyr Thr Cys Ile Cys Tyr Glu Gly Tyr Lys Phe
 545 550 555 560
 Ser Glu Gln Leu Arg Lys Cys Val Asp Ile Asp Glu Cys Ala Gln Val
 565 570 575
 Arg His Leu Cys Ser Gln Gly Arg Cys Glu Asn Thr Glu Gly Ser Phe
 580 585 590
 Leu Cys Val Cys Pro Ala Gly Phe Met Ala Ser Glu Glu Gly Thr Asn
 595 600 605
 Cys Ile Asp Val Asp Glu Cys Leu Arg Pro Asp Met Cys Arg Asp Gly
 610 615 620
 Arg Cys Ile Asn Thr Ala Gly Ala Phe Arg Cys Glu Tyr Cys Asp Ser
 625 630 635 640
 Gly Tyr Arg Met Ser Arg Arg Gly Tyr Cys Glu Asp Ile Asp Glu Cys
 645 650 655

Leu Lys Pro Ser Thr Cys Pro Glu Glu Gln Cys Val Asn Thr Pro Gly
 660 665 670
 Ser Tyr Gln Cys Val Pro Cys Thr Glu Gly Phe Arg Gly Trp Asn Gly
 675 680 685
 Gln Cys Leu Asp Val Asp Glu Cys Leu Gln Pro Lys Val Cys Thr Asn
 690 695 700
 Gly Ser Cys Thr Asn Leu Glu Gly Ser Tyr Met Cys Ser Cys His Arg
 705 710 715 720
 Gly Tyr Ser Pro Thr Pro Asp His Arg His Cys Gln Asp Ile Asp Glu
 725 730 735
 Cys Gln Gln Gly Asn Leu Cys Met Asn Gly Gln Cys Arg Asn Thr Asp
 740 745 750
 Gly Ser Phe Arg Cys Thr Cys Gly Gln Gly Tyr Gln Leu Ser Ala Ala
 755 760 765
 Lys Asp Gln Cys Glu Asp Ile Asp Glu Cys Glu His His His Leu Cys
 770 775 780
 Ser His Gly Gln Cys Arg Asn Thr Glu Gly Ser Phe Gln Cys Val Cys
 785 790 795 800
 Asn Gln Gly Tyr Arg Ala Ser Val Leu Gly Asp His Cys Glu Asp Ile
 805 810 815
 Asn Glu Cys Leu Glu Asp Ser Ser Val Cys Gln Gly Gly Asp Cys Ile
 820 825 830
 Asn Thr Ala Gly Ser Tyr Asp Cys Thr Cys Pro Asp Gly Phe Gln Leu
 835 840 845
 Asn Asp Asn Lys Gly Cys Gln Asp Ile Asn Glu Cys Ala Gln Pro Gly
 850 855 860
 Leu Cys Gly Ser His Gly Glu Cys Leu Asn Thr Gln Gly Ser Phe His
 865 870 875 880
 Cys Val Cys Glu Gln Gly Phe Ser Ile Ser Ala Asp Gly Arg Thr Cys
 885 890 895
 Glu Asp Ile Asp Glu Cys Val Asn Asn Thr Val Cys Asp Ser His Gly
 900 905 910
 Phe Cys Asp Asn Thr Ala Gly Ser Phe Arg Cys Leu Cys Tyr Gln Gly
 915 920 925
 Phe Gln Ala Pro Gln Asp Gly Gln Gly Cys Val Asp Val Asn Glu Cys
 930 935 940
 Glu Leu Leu Ser Gly Val Cys Gly Glu Ala Phe Cys Glu Asn Val Glu
 945 950 955 960
 Gly Ser Phe Leu Cys Val Cys Ala Asp Glu Asn Gln Glu Tyr Ser Pro
 965 970 975
 Met Thr Gly Gln Cys Arg Ser Arg Val Thr Glu Asp Ser Gly Val Asp
 980 985 990
 Arg Gln Pro Arg Glu Glu Lys Lys Glu Cys Tyr Tyr Asn Leu Asn Asp
 995 1000 1005
 Ala Ser Leu Cys Asp Asn Val Leu Ala Pro Asn Val Thr Lys Gln
 1010 1015 1020
 Glu Cys Cys Cys Thr Ser Gly Ala Gly Trp Gly Asp Asn Cys Glu
 1025 1030 1035
 Ile Phe Pro Cys Pro Val Gln Gly Thr Ala Glu Phe Thr Glu Met
 1040 1045 1050
 Cys Pro Arg Gly Lys Gly Leu Val Pro Ala Gly Glu Ser Ser Tyr

1055 1060
Asp Thr Gly Gly Glu Asn Tyr Lys Asp Ala Asp Glu Cys Leu Leu
1070 1075 1080
Phe Gly Glu Glu Ile Cys Lys Asn Gly Tyr Cys Leu Asn Thr Gln
1085 1090 1095
Pro Gly Tyr Glu Cys Tyr Cys Lys Gln Gly Thr Tyr Tyr Asp Pro
1100 1105 1110
Val Lys Leu Gln Cys Phe Asp Met Asp Glu Cys Gln Asp Pro Asn
1115 1120 1125
Ser Cys Ile Asp Gly Gln Cys Val Asn Thr Glu Gly Ser Tyr Asn
1130 1135 1140
Cys Phe Cys Thr His Pro Met Val Leu Asp Ala Ser Glu Lys Arg
1145 1150 1155
Cys Val Gln Pro Thr Glu Ser Asn Glu Gln Ile Glu Glu Thr Asp
1160 1165 1170
Val Tyr Gln Asp Leu Cys Trp Glu His Leu Ser Glu Glu Tyr Val
1175 1180 1185
Cys Ser Arg Pro Leu Val Gly Lys Gln Thr Thr Tyr Thr Glu Cys
1190 1195 1200
Cys Cys Leu Tyr Gly Glu Ala Trp Gly Met Gln Cys Ala Leu Cys
1205 1210 1215
Pro Met Lys Asp Ser Asp Asp Tyr Ala Gln Leu Cys Asn Ile Pro
1220 1225 1230
Val Thr Gly Arg Arg Arg Pro Tyr Gly Arg Asp Ala Leu Val Asp
1235 1240 1245
Phe Ser Glu Gln Tyr Gly Pro Glu Thr Asp Pro Tyr Phe Ile Gln
1250 1255 1260
Asp Arg Phe Leu Asn Ser Phe Glu Glu Leu Gln Ala Glu Glu Cys
1265 1270 1275
Gly Ile Leu Asn Gly Cys Glu Asn Gly Arg Cys Val Arg Val Gln
1280 1285 1290
Glu Gly Tyr Thr Cys Asp Cys Phe Asp Gly Tyr His Leu Asp Met
1295 1300 1305
Ala Lys Met Thr Cys Val Asp Val Asn Glu Cys Ser Glu Leu Asn
1310 1315 1320
Asn Arg Met Ser Leu Cys Lys Asn Ala Lys Cys Ile Asn Thr Glu
1325 1330 1335
Gly Ser Tyr Lys Cys Leu Cys Leu Pro Gly Tyr Ile Pro Ser Asp
1340 1345 1350
Lys Pro Asn Tyr Cys Thr Pro Leu Asn Ser Ala Leu Asn Leu Asp
1355 1360 1365
Lys Glu Ser Asp Leu Glu
1370

<210> 48
<211> 646
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético: GARP

<400> 48

Ile Ser Gln Arg Arg Glu Gln Val Pro Cys Arg Thr Val Asn Lys Glu
1 5 10 15

Ala Leu Cys His Gly Leu Gly Leu Leu Gln Val Pro Ser Val Leu Ser
20 25 30

Leu Asp Ile Gln Ala Leu Tyr Leu Ser Gly Asn Gln Leu Gln Ser Ile
 35 40 45
 Leu Val Ser Pro Leu Gly Phe Tyr Thr Ala Leu Arg His Leu Asp Leu
 50 55 60
 Ser Asp Asn Gln Ile Ser Phe Leu Gln Ala Gly Val Phe Gln Ala Leu
 65 70 75 80
 Pro Tyr Leu Glu His Leu Asn Leu Ala His Asn Arg Leu Ala Thr Gly
 85 90 95
 Met Ala Leu Asn Ser Gly Gly Leu Gly Arg Leu Pro Leu Leu Val Ser
 100 105 110
 Leu Asp Leu Ser Gly Asn Ser Leu His Gly Asn Leu Val Glu Arg Leu
 115 120 125
 Leu Gly Glu Thr Pro Arg Leu Arg Thr Leu Ser Leu Ala Glu Asn Ser
 130 135 140
 Leu Thr Arg Leu Ala Arg His Thr Phe Trp Gly Met Pro Ala Val Glu
 145 150 155 160
 Gln Leu Asp Leu His Ser Asn Val Leu Met Asp Ile Glu Asp Gly Ala
 165 170 175
 Phe Glu Ala Leu Pro His Leu Thr His Leu Asn Leu Ser Arg Asn Ser
 180 185 190
 Leu Thr Cys Ile Ser Asp Phe Ser Leu Gln Gln Leu Gln Val Leu Asp
 195 200 205
 Leu Ser Cys Asn Ser Ile Glu Ala Phe Gln Thr Ala Pro Glu Pro Gln
 210 215 220
 Ala Gln Phe Gln Leu Ala Trp Leu Asp Leu Arg Glu Asn Lys Leu Leu
 225 230 235 240
 His Phe Pro Asp Leu Ala Val Phe Pro Arg Leu Ile Tyr Leu Asn Val
 245 250 255
 Ser Asn Asn Leu Ile Gln Leu Pro Ala Gly Leu Pro Arg Gly Ser Glu
 260 265 270
 Asp Leu His Ala Pro Ser Glu Gly Trp Ser Ala Ser Pro Leu Ser Asn
 275 280 285
 Pro Ser Arg Asn Ala Ser Thr His Pro Leu Ser Gln Leu Leu Asn Leu
 290 295 300
 Asp Leu Ser Tyr Asn Glu Ile Glu Leu Val Pro Ala Ser Phe Leu Glu
 305 310 315 320
 His Leu Thr Ser Leu Arg Phe Leu Asn Leu Ser Arg Asn Cys Leu Arg
 325 330 335
 Ser Phe Glu Ala Arg Gln Val Asp Ser Leu Pro Cys Leu Val Leu Leu
 340 345 350
 Asp Leu Ser His Asn Val Leu Glu Ala Leu Glu Leu Gly Thr Lys Val
 355 360 365
 Leu Gly Ser Leu Gln Thr Leu Leu Leu Gln Asp Asn Ala Leu Gln Glu
 370 375 380
 Leu Pro Pro Tyr Thr Phe Ala Ser Leu Ala Ser Leu Gln Arg Leu Asn
 385 390 395 400
 Leu Gln Gly Asn Gln Val Ser Pro Cys Gly Gly Pro Ala Glu Pro Gly
 405 410 415
 Pro Pro Gly Cys Val Asp Phe Ser Gly Ile Pro Thr Leu His Val Leu
 420 425 430
 Asn Met Ala Gly Asn Ser Met Gly Met Leu Arg Ala Gly Ser Phe Leu

435

440

445

His Thr Pro Leu Thr Glu Leu Asp Leu Ser Thr Asn Pro Gly Leu Asp
450 455 460

Val Ala Thr Gly Ala Leu Val Gly Leu Glu Ala Ser Leu Glu Val Leu
465 470 475 480

Glu Leu Gln Gly Asn Gly Leu Thr Val Leu Arg Val Asp Leu Pro Cys
485 490 495

Phe Leu Arg Leu Lys Arg Leu Asn Leu Ala Glu Asn Gln Leu Ser His
500 505 510

Leu Pro Ala Trp Thr Arg Ala Val Ser Leu Glu Val Leu Asp Leu Arg
515 520 525

Asn Asn Ser Phe Ser Leu Leu Pro Gly Asn Ala Met Gly Gly Leu Glu
530 535 540

Thr Ser Leu Arg Arg Leu Tyr Leu Gln Gly Asn Pro Leu Ser Cys Cys
545 550 555 560

Gly Asn Gly Trp Leu Ala Ala Gln Leu His Gln Gly Arg Val Asp Val
565 570 575

Asp Ala Thr Gln Asp Leu Ile Cys Arg Phe Gly Ser Gln Glu Glu Leu
580 585 590

Ser Leu Ser Leu Val Arg Pro Glu Asp Cys Glu Lys Gly Gly Leu Lys
595 600 605

Asn Val Asn Leu Ile Leu Leu Leu Ser Phe Thr Leu Val Ser Ala Ile
610 615 620

Val Leu Thr Thr Leu Ala Thr Ile Cys Phe Leu Arg Arg Gln Lys Leu
625 630 635 640

Ser Gln Gln Tyr Lys Ala
645

<210> 49
<211> 611
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético: sGARP

<400> 49

Ile Ser Gln Arg Arg Glu Gln Val Pro Cys Arg Thr Val Asn Lys Glu
1 5 10 15

Ala Leu Cys His Gly Leu Gly Leu Leu Gln Val Pro Ser Val Leu Ser
20 25 30

Leu Asp Ile Gln Ala Leu Tyr Leu Ser Gly Asn Gln Leu Gln Ser Ile
35 40 45

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

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

Pro Tyr Leu Glu His Leu Asn Leu Ala His Asn Arg Leu Ala Thr Gly
85 90 95

Met Ala Leu Asn Ser Gly Gly Leu Gly Arg Leu Pro Leu Leu Val Ser
100 105 110

Leu Asp Leu Ser Gly Asn Ser Leu His Gly Asn Leu Val Glu Arg Leu
115 120 125

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

Leu Thr Arg Leu Ala Arg His Thr Phe Trp Gly Met Pro Ala Val Glu
145 150 155 160

Gln Leu Asp Leu His Ser Asn Val Leu Met Asp Ile Glu Asp Gly Ala
 165 170 175
 Phe Glu Ala Leu Pro His Leu Thr His Leu Asn Leu Ser Arg Asn Ser
 180 185 190
 Leu Thr Cys Ile Ser Asp Phe Ser Leu Gln Gln Leu Gln Val Leu Asp
 195 200 205
 Leu Ser Cys Asn Ser Ile Glu Ala Phe Gln Thr Ala Pro Glu Pro Gln
 210 215 220
 Ala Gln Phe Gln Leu Ala Trp Leu Asp Leu Arg Glu Asn Lys Leu Leu
 225 230 235 240
 His Phe Pro Asp Leu Ala Val Phe Pro Arg Leu Ile Tyr Leu Asn Val
 245 250 255
 Ser Asn Asn Leu Ile Gln Leu Pro Ala Gly Leu Pro Arg Gly Ser Glu
 260 265 270
 Asp Leu His Ala Pro Ser Glu Gly Trp Ser Ala Ser Pro Leu Ser Asn
 275 280 285
 Pro Ser Arg Asn Ala Ser Thr His Pro Leu Ser Gln Leu Leu Asn Leu
 290 295 300
 Asp Leu Ser Tyr Asn Glu Ile Glu Leu Val Pro Ala Ser Phe Leu Glu
 305 310 315 320
 His Leu Thr Ser Leu Arg Phe Leu Asn Leu Ser Arg Asn Cys Leu Arg
 325 330 335
 Ser Phe Glu Ala Arg Gln Val Asp Ser Leu Pro Cys Leu Val Leu Leu
 340 345 350
 Asp Leu Ser His Asn Val Leu Glu Ala Leu Glu Leu Gly Thr Lys Val
 355 360 365
 Leu Gly Ser Leu Gln Thr Leu Leu Leu Gln Asp Asn Ala Leu Gln Glu
 370 375 380
 Leu Pro Pro Tyr Thr Phe Ala Ser Leu Ala Ser Leu Gln Arg Leu Asn
 385 390 395 400
 Leu Gln Gly Asn Gln Val Ser Pro Cys Gly Gly Pro Ala Glu Pro Gly
 405 410 415
 Pro Pro Gly Cys Val Asp Phe Ser Gly Ile Pro Thr Leu His Val Leu
 420 425 430
 Asn Met Ala Gly Asn Ser Met Gly Met Leu Arg Ala Gly Ser Phe Leu
 435 440 445
 His Thr Pro Leu Thr Glu Leu Asp Leu Ser Thr Asn Pro Gly Leu Asp
 450 455 460
 Val Ala Thr Gly Ala Leu Val Gly Leu Glu Ala Ser Leu Glu Val Leu
 465 470 475 480
 Glu Leu Gln Gly Asn Gly Leu Thr Val Leu Arg Val Asp Leu Pro Cys
 485 490 495
 Phe Leu Arg Leu Lys Arg Leu Asn Leu Ala Glu Asn Gln Leu Ser His
 500 505 510
 Leu Pro Ala Trp Thr Arg Ala Val Ser Leu Glu Val Leu Asp Leu Arg
 515 520 525
 Asn Asn Ser Phe Ser Leu Leu Pro Gly Asn Ala Met Gly Gly Leu Glu
 530 535 540
 Thr Ser Leu Arg Arg Leu Tyr Leu Gln Gly Asn Pro Leu Ser Cys Cys
 545 550 555 560
 Gly Asn Gly Trp Leu Ala Ala Gln Leu His Gln Gly Arg Val Asp Val
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565

570

575

Asp Ala Thr Gln Asp Leu Ile Cys Arg Phe Gly Ser Gln Glu Glu Leu
580 585 590

Ser Leu Ser Leu Val Arg Pro Glu Asp Cys Glu Lys Gly Gly Leu Lys
595 600 605

Asn Val Asn
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35 40 45

Ala Thr Asn Phe Arg Val Val Ile Cys His Leu Pro Cys Met Asn Gly
50 55 60

Gly Gln Cys Ser Ser Arg Asp Lys Cys Gln Cys Pro Pro Asn Phe Thr
65 70 75 80

Gly Lys Leu Cys Gln Ile Pro Val His Gly Ala Ser Val Pro Lys Leu
85 90 95

Tyr Gln His Ser Gln Gln Pro Gly Lys Ala Leu Gly Thr His Val Ile
100 105 110

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

Lys Val Lys Phe Pro Pro Asn Ile Val Asn Ile His Val Lys His Pro
130 135 140

Pro Glu Ala Ser Val Gln Ile His Gln Val Ser Arg Ile Asp Gly Pro
145 150 155 160

Thr Gly Gln Lys Thr Lys Glu Ala Gln Pro Gly Gln Ser Gln Val Ser
165 170 175

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

Ser His Gln Gln Val Ile Pro His Val Tyr Pro Val Ala Ala Lys Thr
195 200 205

Gln Leu Gly Arg Cys Phe Gln Glu Thr Ile Gly Ser Gln Cys Gly Lys
210 215 220

Ala Leu Pro Gly Leu Ser Lys Gln Glu Asp Cys Cys Gly Thr Val Gly
225 230 235 240

Thr Ser Trp Gly Phe Asn Lys Cys Gln Lys Cys Pro Lys Lys Pro Ser
245 250 255

Tyr His Gly Tyr Asn Gln Met Met Glu Cys Leu Pro Gly Tyr Lys Arg
260 265 270

Val Asn Asn Thr Phe Cys Gln Asp Ile Asn Glu Cys Gln Leu Gln Gly
275 280 285

Val Cys Pro Asn Gly Glu Cys Leu Asn Thr Met Gly Ser Tyr Arg Cys
290 295 300

Thr Cys Lys Ile Gly Phe Gly Pro Asp Pro Thr Phe Ser Ser Cys Val
305 310 315 320

Pro Asp Pro Pro Val Ile Ser Glu Glu Lys Gly Pro Cys Tyr Arg Leu
 325 330 335
 Val Ser Ser Gly Arg Gln Cys Met His Pro Leu Ser Val His Leu Thr
 340 345 350
 Lys Gln Leu Cys Cys Cys Ser Val Gly Lys Ala Trp Gly Pro His Cys
 355 360 365
 Glu Lys Cys Pro Leu Pro Gly Thr Ala Ala Phe Lys Glu Ile Cys Pro
 370 375 380
 Gly Gly Met Gly Tyr Thr Val Ser Gly Val His Arg Arg Arg Pro Ile
 385 390 395 400
 His His His Val Gly Lys Gly Pro Val Phe Val Lys Pro Lys Asn Thr
 405 410 415
 Gln Pro Val Ala Lys Ser Thr His Pro Pro Pro Leu Pro Ala Lys Glu
 420 425 430
 Glu Pro Val Glu Ala Leu Thr Phe Ser Arg Glu His Gly Pro Gly Val
 435 440 445
 Ala Glu Pro Glu Val Ala Thr Ala Pro Pro Glu Lys Glu Ile Pro Ser
 450 455 460
 Leu Asp Gln Glu Lys Thr Lys Leu Glu Pro Gly Gln Pro Gln Leu Ser
 465 470 475 480
 Pro Gly Ile Ser Thr Ile His Leu His Pro Gln Phe Pro Val Val Ile
 485 490 495
 Glu Lys Thr Ser Pro Pro Val Pro Val Glu Val Ala Pro Glu Ala Ser
 500 505 510
 Thr Ser Ser Ala Ser Gln Val Ile Ala Pro Thr Gln Val Thr Glu Ile
 515 520 525
 Asn Glu Cys Thr Val Asn Pro Asp Ile Cys Gly Ala Gly His Cys Ile
 530 535 540
 Asn Leu Pro Val Arg Tyr Thr Cys Ile Cys Tyr Glu Gly Tyr Arg Phe
 545 550 555 560
 Ser Glu Gln Gln Arg Lys Cys Val Asp Ile Asp Glu Cys Thr Gln Val
 565 570 575
 Gln His Leu Cys Ser Gln Gly Arg Cys Glu Asn Thr Glu Gly Ser Phe
 580 585 590
 Leu Cys Ile Cys Pro Ala Gly Phe Met Ala Ser Glu Glu Gly Thr Asn
 595 600 605
 Cys Ile Asp Val Asp Glu Cys Leu Arg Pro Asp Val Cys Gly Glu Gly
 610 615 620
 His Cys Val Asn Thr Val Gly Ala Phe Arg Cys Glu Tyr Cys Asp Ser
 625 630 635 640
 Gly Tyr Arg Met Thr Gln Arg Gly Arg Cys Glu Asp Ile Asp Glu Cys
 645 650 655
 Leu Asn Pro Ser Thr Cys Pro Asp Glu Gln Cys Val Asn Ser Pro Gly
 660 665 670
 Ser Tyr Gln Cys Val Pro Cys Thr Glu Gly Phe Arg Gly Trp Asn Gly
 675 680 685
 Gln Cys Leu Asp Val Asp Glu Cys Leu Glu Pro Asn Val Cys Ala Asn
 690 695 700
 Gly Asp Cys Ser Asn Leu Glu Gly Ser Tyr Met Cys Ser Cys His Lys
 705 710 715 720
 Gly Tyr Thr Arg Thr Pro Asp His Lys His Cys Arg Asp Ile Asp Glu

Cys Gln Gln Gly Asn Leu Cys Val Asn Gly Gln Cys Lys Asn Thr Glu
740 745 750

Gly Ser Phe Arg Cys Thr Cys Gly Gln Gly Tyr Gln Leu Ser Ala Ala
755 760 765

Lys Asp Gln Cys Glu Asp Ile Asp Glu Cys Gln His Arg His Leu Cys
770 775 780

Ala His Gly Gln Cys Arg Asn Thr Glu Gly Ser Phe Gln Cys Val Cys
785 790 795 800

Asp Gln Gly Tyr Arg Ala Ser Gly Leu Gly Asp His Cys Glu Asp Ile
805 810 815

Asn Glu Cys Leu Glu Asp Lys Ser Val Cys Gln Arg Gly Asp Cys Ile
820 825 830

Asn Thr Ala Gly Ser Tyr Asp Cys Thr Cys Pro Asp Gly Phe Gln Leu
835 840 845

Asp Asp Asn Lys Thr Cys Gln Asp Ile Asn Glu Cys Glu His Pro Gly
850 855 860

Leu Cys Gly Pro Gln Gly Glu Cys Leu Asn Thr Glu Gly Ser Phe His
865 870 875 880

Cys Val Cys Gln Gln Gly Phe Ser Ile Ser Ala Asp Gly Arg Thr Cys
885 890 895

Glu Asp Ile Asp Glu Cys Val Asn Asn Thr Val Cys Asp Ser His Gly
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Phe Cys Asp Asn Thr Ala Gly Ser Phe Arg Cys Leu Cys Tyr Gln Gly
915 920 925

Phe Gln Ala Pro Gln Asp Gly Gln Gly Cys Val Asp Val Asn Glu Cys
930 935 940

Glu Leu Leu Ser Gly Val Cys Gly Glu Ala Phe Cys Glu Asn Val Glu
945 950 955 960

Gly Ser Phe Leu Cys Val Cys Ala Asp Glu Asn Gln Glu Tyr Ser Pro
965 970 975

Met Thr Gly Gln Cys Arg Ser Arg Thr Ser Thr Asp Leu Asp Val Asp
980 985 990

Val Asp Gln Pro Lys Glu Glu Lys Lys Glu Cys Tyr Tyr Asn Leu Asn
995 1000 1005

Asp Ala Ser Leu Cys Asp Asn Val Leu Ala Pro Asn Val Thr Lys
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Gln Glu Cys Cys Cys Thr Ser Gly Val Gly Trp Gly Asp Asn Cys
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Glu Ile Phe Pro Cys Pro Val Leu Gly Thr Ala Glu Phe Thr Glu
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Met Cys Pro Lys Gly Lys Gly Phe Val Pro Ala Gly Glu Ser Ser
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Ser Glu Ala Gly Gly Glu Asn Tyr Lys Asp Ala Asp Glu Cys Leu
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Arg Pro Gly Tyr Glu Cys Tyr Cys Lys Gln Gly Thr Tyr Tyr Asp
1100 1105 1110

Pro Val Lys Leu Gln Cys Phe Asp Met Asp Glu Cys Gln Asp Pro
1115 1120 1125

Ser Ser Cys Ile Asp Gly Gln Cys Val Asn Thr Glu Gly Ser Tyr
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Asn Cys Phe Cys Thr His Pro Met Val Leu Asp Ala Ser Glu Lys
1145 1150 1155

Arg Cys Ile Arg Pro Ala Glu Ser Asn Glu Gln Ile Glu Glu Thr
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Asp Val Tyr Gln Asp Leu Cys Trp Glu His Leu Ser Asp Glu Tyr
1175 1180 1185

Val Cys Ser Arg Pro Leu Val Gly Lys Gln Thr Thr Tyr Thr Glu
1190 1195 1200

Cys Cys Cys Leu Tyr Gly Glu Ala Trp Gly Met Gln Cys Ala Leu
1205 1210 1215

Cys Pro Leu Lys Asp Ser Asp Asp Tyr Ala Gln Leu Cys Asn Ile
1220 1225 1230

Pro Val Thr Gly Arg Arg Gln Pro Tyr Gly Arg Asp Ala Leu Val
1235 1240 1245

Asp Phe Ser Glu Gln Tyr Thr Pro Glu Ala Asp Pro Tyr Phe Ile
1250 1255 1260

Gln Asp Arg Phe Leu Asn Ser Phe Glu Glu Leu Gln Ala Glu Glu
1265 1270 1275

Cys Gly Ile Leu Asn Gly Cys Glu Asn Gly Arg Cys Val Arg Val
1280 1285 1290

Gln Glu Gly Tyr Thr Cys Asp Cys Phe Asp Gly Tyr His Leu Asp
1295 1300 1305

Thr Ala Lys Met Thr Cys Val Asp Val Asn Glu Cys Asp Glu Leu
1310 1315 1320

Asn Asn Arg Met Ser Leu Cys Lys Asn Ala Lys Cys Ile Asn Thr
1325 1330 1335

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

Leu Ile Gly Glu Asn Gly His Ser Thr Asp Thr Leu Thr Gly Ser Gly
50 55 60

Phe Arg Val Val Val Cys Pro Leu Pro Cys Met Asn Gly Gly Gln Cys
65 70 75 80

Ser Ser Arg Asn Gln Cys Leu Cys Pro Pro Asp Phe Thr Gly Arg Phe
85 90 95

Cys Gln Val Pro Ala Gly Gly Ala Gly Gly Gly Thr Gly Gly Ser Gly

100

105

110

Pro Gly Leu Ser Arg Thr Gly Ala Leu Ser Thr Gly Ala Leu Pro Pro
115 120 125

Leu Ala Pro Glu Gly Asp Ser Val Ala Ser Lys His Ala Ile Tyr Ala
130 135 140

Val Gln Val Ile Ala Asp Pro Pro Gly Pro Gly Glu Gly Pro Pro Ala
145 150 155 160

Gln His Ala Ala Phe Leu Val Pro Leu Gly Pro Gly Gln Ile Ser Ala
165 170 175

Glu Val Gln Ala Pro Pro Pro Val Val Asn Val Arg Val His His Pro
180 185 190

Pro Glu Ala Ser Val Gln Val His Arg Ile Glu Ser Ser Asn Ala Glu
195 200 205

Ser Ala Ala Pro Ser Gln His Leu Leu Pro His Pro Lys Pro Ser His
210 215 220

Pro Arg Pro Pro Thr Gln Lys Pro Leu Gly Arg Cys Phe Gln Asp Thr
225 230 235 240

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

Gln Glu Asp Cys Cys Gly Ser Ile Gly Thr Ala Trp Gly Gln Ser Lys
260 265 270

Cys His Lys Cys Pro Gln Leu Gln Tyr Thr Gly Val Gln Lys Pro Gly
275 280 285

Pro Val Arg Gly Glu Val Gly Ala Asp Cys Pro Gln Gly Tyr Lys Arg
290 295 300

Leu Asn Ser Thr His Cys Gln Asp Ile Asn Glu Cys Ala Met Pro Gly
305 310 315 320

Val Cys Arg His Gly Asp Cys Leu Asn Asn Pro Gly Ser Tyr Arg Cys
325 330 335

Val Cys Pro Pro Gly His Ser Leu Gly Pro Ser Arg Thr Gln Cys Ile
340 345 350

Ala Asp Lys Pro Glu Glu Lys Ser Leu Cys Phe Arg Leu Val Ser Pro
355 360 365

Glu His Gln Cys Gln His Pro Leu Thr Thr Arg Leu Thr Arg Gln Leu
370 375 380

Cys Cys Cys Ser Val Gly Lys Ala Trp Gly Ala Arg Cys Gln Arg Cys
385 390 395 400

Pro Thr Asp Gly Thr Ala Ala Phe Lys Glu Ile Cys Pro Ala Gly Lys
405 410 415

Gly Tyr His Ile Leu Thr Ser His Gln Thr Leu Thr Ile Gln Gly Glu
420 425 430

Ser Asp Phe Ser Leu Phe Leu His Pro Asp Gly Pro Pro Lys Pro Gln
435 440 445

Gln Leu Pro Glu Ser Pro Ser Gln Ala Pro Pro Pro Glu Asp Thr Glu
450 455 460

Glu Glu Arg Gly Val Thr Thr Asp Ser Pro Val Ser Glu Glu Arg Ser
465 470 475 480

Val Gln Gln Ser His Pro Thr Ala Thr Thr Thr Pro Ala Arg Pro Tyr
485 490 495

Pro Glu Leu Ile Ser Arg Pro Ser Pro Pro Thr Met Arg Trp Phe Leu
500 505 510

Pro Asp Leu Pro Pro Ser Arg Ser Ala Val Glu Ile Ala Pro Thr Gln
 515 520 525
 Val Thr Glu Thr Asp Glu Cys Arg Leu Asn Gln Asn Ile Cys Gly His
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 Gly Glu Cys Val Pro Gly Pro Pro Asp Tyr Ser Cys His Cys Asn Pro
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 Gly Tyr Arg Ser His Pro Gln His Arg Tyr Cys Val Asp Val Asn Glu
 565 570 575
 Cys Glu Ala Glu Pro Cys Gly Pro Gly Arg Gly Ile Cys Met Asn Thr
 580 585 590
 Gly Gly Ser Tyr Asn Cys His Cys Asn Arg Gly Tyr Arg Leu His Val
 595 600 605
 Gly Ala Gly Gly Arg Ser Cys Val Asp Leu Asn Glu Cys Ala Lys Pro
 610 615 620
 His Leu Cys Gly Asp Gly Gly Phe Cys Ile Asn Phe Pro Gly His Tyr
 625 630 635 640
 Lys Cys Asn Cys Tyr Pro Gly Tyr Arg Leu Lys Ala Ser Arg Pro Pro
 645 650 655
 Val Cys Glu Asp Ile Asp Glu Cys Arg Asp Pro Ser Ser Cys Pro Asp
 660 665 670
 Gly Lys Cys Glu Asn Lys Pro Gly Ser Phe Lys Cys Ile Ala Cys Gln
 675 680 685
 Pro Gly Tyr Arg Ser Gln Gly Gly Gly Ala Cys Arg Asp Val Asn Glu
 690 695 700
 Cys Ala Glu Gly Ser Pro Cys Ser Pro Gly Trp Cys Glu Asn Leu Pro
 705 710 715 720
 Gly Ser Phe Arg Cys Thr Cys Ala Gln Gly Tyr Ala Pro Ala Pro Asp
 725 730 735
 Gly Arg Ser Cys Leu Asp Val Asp Glu Cys Glu Ala Gly Asp Val Cys
 740 745 750
 Asp Asn Gly Ile Cys Ser Asn Thr Pro Gly Ser Phe Gln Cys Gln Cys
 755 760 765
 Leu Ser Gly Tyr His Leu Ser Arg Asp Arg Ser His Cys Glu Asp Ile
 770 775 780
 Asp Glu Cys Asp Phe Pro Ala Ala Cys Ile Gly Gly Asp Cys Ile Asn
 785 790 795 800
 Thr Asn Gly Ser Tyr Arg Cys Leu Cys Pro Gln Gly His Arg Leu Val
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 Gly Gly Arg Lys Cys Gln Asp Ile Asp Glu Cys Ser Gln Asp Pro Ser
 820 825 830
 Leu Cys Leu Pro His Gly Ala Cys Lys Asn Leu Gln Gly Ser Tyr Val
 835 840 845
 Cys Val Cys Asp Glu Gly Phe Thr Pro Thr Gln Asp Gln His Gly Cys
 850 855 860
 Glu Glu Val Glu Gln Pro His His Lys Lys Glu Cys Tyr Leu Asn Phe
 865 870 875 880
 Asp Asp Thr Val Phe Cys Asp Ser Val Leu Ala Thr Asn Val Thr Gln
 885 890 895
 Gln Glu Cys Cys Cys Ser Leu Gly Ala Gly Trp Gly Asp His Cys Glu
 900 905 910
 Ile Tyr Pro Cys Pro Val Tyr Ser Ser Ala Glu Phe His Ser Leu Cys
 915 920 925

Pro Asp Gly Lys Gly Tyr Thr Gln Asp Asn Asn Ile Val Asn Tyr Gly
 930 935 940

Ile Pro Ala His Arg Asp Ile Asp Glu Cys Met Leu Phe Gly Ser Glu
 945 950 955 960

Ile Cys Lys Glu Gly Lys Cys Val Asn Thr Gln Pro Gly Tyr Glu Cys
 965 970 975

Tyr Cys Lys Gln Gly Phe Tyr Tyr Asp Gly Asn Leu Leu Glu Cys Val
 980 985 990

Asp Val Asp Glu Cys Leu Asp Glu Ser Asn Cys Arg Asn Gly Val Cys
 995 1000 1005

Glu Asn Thr Arg Gly Gly Tyr Arg Cys Ala Cys Thr Pro Pro Ala
 1010 1015 1020

Glu Tyr Ser Pro Ala Gln Arg Gln Cys Leu Ser Pro Glu Glu Met
 1025 1030 1035

Asp Val Asp Glu Cys Gln Asp Pro Ala Ala Cys Arg Pro Gly Arg
 1040 1045 1050

Cys Val Asn Leu Pro Gly Ser Tyr Arg Cys Glu Cys Arg Pro Pro
 1055 1060 1065

Trp Val Pro Gly Pro Ser Gly Arg Asp Cys Gln Leu Pro Glu Ser
 1070 1075 1080

Pro Ala Glu Arg Ala Pro Glu Arg Arg Asp Val Cys Trp Ser Gln
 1085 1090 1095

Arg Gly Glu Asp Gly Met Cys Ala Gly Pro Leu Ala Gly Pro Ala
 1100 1105 1110

Leu Thr Phe Asp Asp Cys Cys Cys Arg Gln Gly Arg Gly Trp Gly
 1115 1120 1125

Ala Gln Cys Arg Pro Cys Pro Pro Arg Gly Ala Gly Ser His Cys
 1130 1135 1140

Pro Thr Ser Gln Ser Glu Ser Asn Ser Phe Trp Asp Thr Ser Pro
 1145 1150 1155

Leu Leu Leu Gly Lys Pro Pro Arg Asp Glu Asp Ser Ser Glu Glu
 1160 1165 1170

Asp Ser Asp Glu Cys Arg Cys Val Ser Gly Arg Cys Val Pro Arg
 1175 1180 1185

Pro Gly Gly Ala Val Cys Glu Cys Pro Gly Gly Phe Gln Leu Asp
 1190 1195 1200

Ala Ser Arg Ala Arg Cys Val Asp Ile Asp Glu Cys Arg Glu Leu
 1205 1210 1215

Asn Gln Arg Gly Leu Leu Cys Lys Ser Glu Arg Cys Val Asn Thr
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Ser Gly Ser Phe Arg Cys Val Cys Lys Ala Gly Phe Ala Arg Ser
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Arg Pro His Gly Ala Cys Val Pro Gln Arg Arg Arg
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 35 40 45
 Ala Ser Pro Leu Gly Phe Tyr Thr Ala Leu Arg His Leu Asp Leu Ser
 50 55 60
 Thr Asn Glu Ile Ser Phe Leu Gln Pro Gly Ala Phe Gln Ala Leu Thr
 65 70 75 80
 His Leu Glu His Leu Ser Leu Ala His Asn Arg Leu Ala Met Ala Thr
 85 90 95
 Ala Leu Ser Ala Gly Gly Leu Gly Pro Leu Pro Arg Val Thr Ser Leu
 100 105 110
 Asp Leu Ser Gly Asn Ser Leu Tyr Ser Gly Leu Leu Glu Arg Leu Leu
 115 120 125
 Gly Glu Ala Pro Ser Leu His Thr Leu Ser Leu Ala Glu Asn Ser Leu
 130 135 140
 Thr Arg Leu Thr Arg His Thr Phe Arg Asp Met Pro Ala Leu Glu Gln
 145 150 155 160
 Leu Asp Leu His Ser Asn Val Leu Met Asp Ile Glu Asp Gly Ala Phe
 165 170 175
 Glu Gly Leu Pro Arg Leu Thr His Leu Asn Leu Ser Arg Asn Ser Leu
 180 185 190
 Thr Cys Ile Ser Asp Phe Ser Leu Gln Gln Leu Arg Val Leu Asp Leu
 195 200 205
 Ser Cys Asn Ser Ile Glu Ala Phe Gln Thr Ala Ser Gln Pro Gln Ala
 210 215 220
 Glu Phe Gln Leu Thr Trp Leu Asp Leu Arg Glu Asn Lys Leu Leu His
 225 230 235 240
 Phe Pro Asp Leu Ala Ala Leu Pro Arg Leu Ile Tyr Leu Asn Leu Ser
 245 250 255
 Asn Asn Leu Ile Arg Leu Pro Thr Gly Pro Pro Gln Asp Ser Lys Gly
 260 265 270
 Ile His Ala Pro Ser Glu Gly Trp Ser Ala Leu Pro Leu Ser Ala Pro
 275 280 285
 Ser Gly Asn Ala Ser Gly Arg Pro Leu Ser Gln Leu Leu Asn Leu Asp
 290 295 300
 Leu Ser Tyr Asn Glu Ile Glu Leu Ile Pro Asp Ser Phe Leu Glu His
 305 310 315 320
 Leu Thr Ser Leu Cys Phe Leu Asn Leu Ser Arg Asn Cys Leu Arg Thr
 325 330 335
 Phe Glu Ala Arg Arg Leu Gly Ser Leu Pro Cys Leu Met Leu Leu Asp
 340 345 350
 Leu Ser His Asn Ala Leu Glu Thr Leu Glu Leu Gly Ala Arg Ala Leu
 355 360 365
 Gly Ser Leu Arg Thr Leu Leu Leu Gln Gly Asn Ala Leu Arg Asp Leu
 370 375 380
 Pro Pro Tyr Thr Phe Ala Asn Leu Ala Ser Leu Gln Arg Leu Asn Leu
 385 390 395 400
 Gln Gly Asn Arg Val Ser Pro Cys Gly Gly Pro Asp Glu Pro Gly Pro
 405 410 415
 Ser Gly Cys Val Ala Phe Ser Gly Ile Thr Ser Leu Arg Ser Leu Ser
 420 425 430

Leu Val Asp Asn Glu Ile Glu Leu Leu Arg Ala Gly Ala Phe Leu His
 435 440 445
 Thr Pro Leu Thr Glu Leu Asp Leu Ser Ser Asn Pro Gly Leu Glu Val
 450 455 460
 Ala Thr Gly Ala Leu Gly Gly Leu Glu Ala Ser Leu Glu Val Leu Ala
 465 470 475 480
 Leu Gln Gly Asn Gly Leu Met Val Leu Gln Val Asp Leu Pro Cys Phe
 485 490 495
 Ile Cys Leu Lys Arg Leu Asn Leu Ala Glu Asn Arg Leu Ser His Leu
 500 505 510
 Pro Ala Trp Thr Gln Ala Val Ser Leu Glu Val Leu Asp Leu Arg Asn
 515 520 525
 Asn Ser Phe Ser Leu Leu Pro Gly Ser Ala Met Gly Gly Leu Glu Thr
 530 535 540
 Ser Leu Arg Arg Leu Tyr Leu Gln Gly Asn Pro Leu Ser Cys Cys Gly
 545 550 555 560
 Asn Gly Trp Leu Ala Ala Gln Leu His Gln Gly Arg Val Asp Val Asp
 565 570 575
 Ala Thr Gln Asp Leu Ile Cys Arg Phe Ser Ser Gln Glu Glu Val Ser
 580 585 590
 Leu Ser His Val Arg Pro Glu Asp Cys Glu Lys Gly Gly Leu Lys Asn
 595 600 605
 Ile Asn Leu Ile Ile Ile Leu Thr Phe Ile Leu Val Ser Ala Ile Leu
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 35 40 45
 Ala Ser Pro Leu Gly Phe Tyr Thr Ala Leu Arg His Leu Asp Leu Ser
 50 55 60
 Thr Asn Glu Ile Ser Phe Leu Gln Pro Gly Ala Phe Gln Ala Leu Thr
 65 70 75 80
 His Leu Glu His Leu Ser Leu Ala His Asn Arg Leu Ala Met Ala Thr
 85 90 95
 Ala Leu Ser Ala Gly Gly Leu Gly Pro Leu Pro Arg Val Thr Ser Leu
 100 105 110
 Asp Leu Ser Gly Asn Ser Leu Tyr Ser Gly Leu Leu Glu Arg Leu Leu
 115 120 125
 Gly Glu Ala Pro Ser Leu His Thr Leu Ser Leu Ala Glu Asn Ser Leu
 130 135 140

Thr Arg Leu Thr Arg His Thr Phe Arg Asp Met Pro Ala Leu Glu Gln
 145 150 155 160
 Leu Asp Leu His Ser Asn Val Leu Met Asp Ile Glu Asp Gly Ala Phe
 165 170 175
 Glu Gly Leu Pro Arg Leu Thr His Leu Asn Leu Ser Arg Asn Ser Leu
 180 185 190
 Thr Cys Ile Ser Asp Phe Ser Leu Gln Gln Leu Arg Val Leu Asp Leu
 195 200 205
 Ser Cys Asn Ser Ile Glu Ala Phe Gln Thr Ala Ser Gln Pro Gln Ala
 210 215 220
 Glu Phe Gln Leu Thr Trp Leu Asp Leu Arg Glu Asn Lys Leu Leu His
 225 230 235 240
 Phe Pro Asp Leu Ala Ala Leu Pro Arg Leu Ile Tyr Leu Asn Leu Ser
 245 250 255
 Asn Asn Leu Ile Arg Leu Pro Thr Gly Pro Pro Gln Asp Ser Lys Gly
 260 265 270
 Ile His Ala Pro Ser Glu Gly Trp Ser Ala Leu Pro Leu Ser Ala Pro
 275 280 285
 Ser Gly Asn Ala Ser Gly Arg Pro Leu Ser Gln Leu Leu Asn Leu Asp
 290 295 300
 Leu Ser Tyr Asn Glu Ile Glu Leu Ile Pro Asp Ser Phe Leu Glu His
 305 310 315 320
 Leu Thr Ser Leu Cys Phe Leu Asn Leu Ser Arg Asn Cys Leu Arg Thr
 325 330 335
 Phe Glu Ala Arg Arg Leu Gly Ser Leu Pro Cys Leu Met Leu Leu Asp
 340 345 350
 Leu Ser His Asn Ala Leu Glu Thr Leu Glu Leu Gly Ala Arg Ala Leu
 355 360 365
 Gly Ser Leu Arg Thr Leu Leu Leu Gln Gly Asn Ala Leu Arg Asp Leu
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 Pro Pro Tyr Thr Phe Ala Asn Leu Ala Ser Leu Gln Arg Leu Asn Leu
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 Ser Gly Cys Val Ala Phe Ser Gly Ile Thr Ser Leu Arg Ser Leu Ser
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 Thr Pro Leu Thr Glu Leu Asp Leu Ser Ser Asn Pro Gly Leu Glu Val
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 Pro Ala Trp Thr Gln Ala Val Ser Leu Glu Val Leu Asp Leu Arg Asn
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 Asn Ser Phe Ser Leu Leu Pro Gly Ser Ala Met Gly Gly Leu Glu Thr
 530 535 540
 Ser Leu Arg Arg Leu Tyr Leu Gln Gly Asn Pro Leu Ser Cys Cys Gly
 545 550 555 560

Asn Gly Trp Leu Ala Ala Gln Leu His Gln Gly Arg Val Asp Val Asp
565 570 575

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

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Ala Lys Thr Thr Pro Lys Leu Gly Gly
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<210> 62
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<400> 62

Ser Ala Lys Thr Thr Pro Lys Leu Gly Gly
 1 5 10

<210> 63
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<400> 63

Ser Ala Lys Thr Thr Pro
 1 5

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Arg Ala Asp Ala Ala Pro
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<210> 65
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Arg Ala Asp Ala Ala Pro Thr Val Ser
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 <213> Secuencia Artificial

<220>
 <223> Sintético: Enlazador

<400> 66

Arg Ala Asp Ala Ala Ala Ala Gly Gly Pro Gly Ser
 1 5 10

<210> 67
 <211> 27
 <212> PRT

<213> Secuencia Artificial

<220>

<223> Sintético: Enlazador

<400> 67

Arg Ala Asp Ala Ala Ala Gly Gly Gly Gly Ser Gly Gly Gly Gly
1 5 10 15

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
20 25

<210> 68

<211> 18

<212> PRT

<213> Secuencia Artificial

<220>

<223> Sintético: Enlazador

<400> 68

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

Arg Val

<210> 69

<211> 5

<212> PRT

<213> Secuencia Artificial

<220>

<223> Sintético: Enlazador

<400> 69

Ala Asp Ala Ala Pro
1 5

<210> 70

<211> 12

<212> PRT

<213> Secuencia Artificial

<220>

<223> Sintético: Enlazador

<400> 70

Ala Asp Ala Ala Pro Thr Val Ser Ile Phe Pro Pro
1 5 10

<210> 71

<211> 6

<212> PRT

<213> Secuencia Artificial

<220>

<223> Sintético: Enlazador

<400> 71

Gln Pro Lys Ala Ala Pro
1 5

<210> 72

<211> 13

<212> PRT

<213> Secuencia Artificial

<220>

<223> Sintético: Enlazador

<400> 72

Gln Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro
1 5 10

<210> 73

<211> 6

<212> PRT

<213> Secuencia Artificial

<220>

<223> Sintético: Enlazador

<400> 73

Ala Lys Thr Thr Pro Pro
1 5

<210> 74
 <211> 13
 <212> PRT
 <213> Secuencia Artificial

<220>
 <223> Sintético: Enlazador

<400> 74

Ala Lys Thr Thr Pro Pro Ser Val Thr Pro Leu Ala Pro
 1 5 10

<210> 75
 <211> 6
 <212> PRT
 <213> Secuencia Artificial

<220>
 <223> Sintético: Enlazador

<400> 75

Ala Lys Thr Thr Ala Pro
 1 5

<210> 76
 <211> 13
 <212> PRT
 <213> Secuencia Artificial

<220>
 <223> Sintético: Enlazador

<400> 76

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

<210> 77
 <211> 15
 <212> PRT
 <213> Secuencia Artificial

<220>
 <223> Sintético: Enlazador

<400> 77

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
 1 5 10 15

<210> 78
 <211> 15
 <212> PRT
 <213> Secuencia Artificial

<220>
 <223> Sintético: Enlazador

<400> 78

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

<210> 79
 <211> 15
 <212> PRT
 <213> Secuencia Artificial

<220>
 <223> Sintético: Enlazador

<400> 79

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

<210> 80
 <211> 15
 <212> PRT
 <213> Secuencia Artificial

<220>
 <223> Sintético: Enlazador

<400> 80

Gly His Glu Ala Ala Ala Val Met Gln Val Gln Tyr Pro Ala Ser
 1 5 10 15

<210> 81
 <211> 24
 <212> PRT
 <213> Secuencia Artificial

<220>
 <223> Sintético: Enlazador
 <400> 81
 Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Thr Val Ala Ala
 1 5 10 15
 Pro Ser Val Phe Ile Phe Pro Pro
 20
 <210> 82
 <211> 26
 <212> PRT
 <213> Secuencia Artificial
 <220>
 <223> Sintético: Enlazador
 <400> 82
 Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ala Ser Thr
 1 5 10 15
 Lys Gly Pro Ser Val Phe Pro Leu Ala Pro
 20 25
 <210> 83
 <211> 692
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> característica_miscelánea
 <223> LRRC33 (también conocido como NRROS, Acceso Uniprot N° Q86YC3)
 <400> 83
 Met Glu Leu Leu Pro Leu Trp Leu Cys Leu Gly Phe His Phe Leu Thr
 1 5 10 15
 Val Gly Trp Arg Asn Arg Ser Gly Thr Ala Thr Ala Ala Ser Gln Gly
 20 25 30
 Val Cys Lys Leu Val Gly Gly Ala Ala Asp Cys Arg Gly Gln Ser Leu
 35 40 45
 Ala Ser Val Pro Ser Ser Leu Pro Pro His Ala Arg Met Leu Thr Leu
 50 55 60
 Asp Ala Asn Pro Leu Lys Thr Leu Trp Asn His Ser Leu Gln Pro Tyr
 65 70 75 80
 Pro Leu Leu Glu Ser Leu Ser Leu His Ser Cys His Leu Glu Arg Ile
 85 90 95
 Ser Arg Gly Ala Phe Gln Glu Gln Gly His Leu Arg Ser Leu Val Leu
 100 105 110
 Gly Asp Asn Cys Leu Ser Glu Asn Tyr Glu Glu Thr Ala Ala Ala Leu
 115 120 125
 His Ala Leu Pro Gly Leu Arg Arg Leu Asp Leu Ser Gly Asn Ala Leu
 130 135 140
 Thr Glu Asp Met Ala Ala Leu Met Leu Gln Asn Leu Ser Ser Leu Arg
 145 150 155 160
 Ser Val Ser Leu Ala Gly Asn Thr Ile Met Arg Leu Asp Asp Ser Val
 165 170 175
 Phe Glu Gly Leu Glu Arg Leu Arg Glu Leu Asp Leu Gln Arg Asn Tyr
 180 185 190
 Ile Phe Glu Ile Glu Gly Gly Ala Phe Asp Gly Leu Ala Glu Leu Arg
 195 200 205
 His Leu Asn Leu Ala Phe Asn Asn Leu Pro Cys Ile Val Asp Phe Gly
 210 215 220
 Leu Thr Arg Leu Arg Val Leu Asn Val Ser Tyr Asn Val Leu Glu Trp
 225 230 235 240

Phe Leu Ala Thr Gly₂₄₅ Gly Glu Ala Ala Phe₂₅₀ Glu Leu Glu Thr Leu₂₅₅ Asp
 Leu Ser His Asn₂₆₀ Gln Leu Leu Phe₂₆₅ Pro Leu Leu Pro Gln₂₇₀ Tyr Ser
 Lys Leu Arg₂₇₅ Thr Leu Leu Leu Arg₂₈₀ Asp Asn Asn Met Gly₂₈₅ Phe Tyr Arg
 Asp Leu₂₉₀ Tyr Asn Thr Ser₂₉₅ Pro Arg Glu Met Val₃₀₀ Ala Gln Phe Leu
 Leu₃₀₅ Val Asp Gly Asn Val₃₁₀ Thr Asn Ile Thr Thr₃₁₅ Val Ser Leu Trp Glu₃₂₀
 Glu Phe Ser Ser Ser₃₂₅ Asp Leu Ala Asp Leu₃₃₀ Arg Phe Leu Asp Met₃₃₅ Ser
 Gln Asn Gln Phe₃₄₀ Gln Tyr Leu Pro Asp₃₄₅ Gly Phe Leu Arg Lys₃₅₀ Met Pro
 Ser Leu Ser₃₅₅ His Leu Asn Leu His₃₆₀ Gln Asn Cys Leu Met₃₆₅ Thr Leu His
 Ile Arg₃₇₀ Glu His Glu Pro Pro₃₇₅ Gly Ala Leu Thr Glu₃₈₀ Leu Asp Leu Ser
 His₃₈₅ Asn Gln Leu Ser Glu₃₉₀ Leu His Leu Ala Pro₃₉₅ Gly Leu Ala Ser Cys₄₀₀
 Leu Gly Ser Leu Arg₄₀₅ Leu Phe Asn Leu Ser₄₁₀ Ser Asn Gln Leu Leu₄₁₅ Gly
 Val Pro Pro Gly₄₂₀ Leu Phe Ala Asn Ala₄₂₅ Arg Asn Ile Thr Thr₄₃₀ Leu Asp
 Met Ser His₄₃₅ Asn Gln Ile Ser₄₄₀ Leu Cys Pro Leu Pro Ala₄₄₅ Ala Ser Asp
 Arg Val₄₅₀ Gly Pro Pro Ser Cys₄₅₅ Val Asp Phe Arg Asn₄₆₀ Met Ala Ser Leu
 Arg₄₆₅ Ser Leu Ser Leu Glu₄₇₀ Gly Cys Gly Leu Gly₄₇₅ Ala Leu Pro Asp Cys₄₈₀
 Pro Phe Gln Gly Thr₄₈₅ Ser Leu Thr Tyr Leu₄₉₀ Asp Leu Ser Ser Asn₄₉₅ Trp
 Gly Val Leu Asn Gly Ser Leu Ala Pro₅₀₅ Leu Gln Asp Val Ala₅₁₀ Pro Met
 Leu Gln Val₅₁₅ Leu Ser Leu Arg Asn₅₂₀ Met Gly Leu His Ser₅₂₅ Ser Phe Met
 Ala Leu₅₃₀ Asp Phe Ser Gly Phe₅₃₅ Gly Asn Leu Arg Asp₅₄₀ Leu Asp Leu Ser
 Gly₅₄₅ Asn Cys Leu Thr Thr₅₅₀ Phe Pro Arg Phe Gly₅₅₅ Gly Ser Leu Ala Leu₅₆₀
 Glu Thr Leu Asp Leu₅₆₅ Arg Arg Asn Ser Leu₅₇₀ Thr Ala Leu Pro Gln₅₇₅ Lys
 Ala Val Ser Glu₅₈₀ Gln Leu Ser Arg Gly₅₈₅ Leu Arg Thr Ile Tyr₅₉₀ Leu Ser
 Gln Asn Pro₅₉₅ Tyr Asp Cys Cys Gly₆₀₀ Val Asp Gly Trp Gly₆₀₅ Ala Leu Gln
 His Gly₆₁₀ Gln Thr Val Ala Asp₆₁₅ Trp Ala Met Val Thr₆₂₀ Cys Asn Leu Ser
 Ser Lys Ile Ile Arg Val₆₃₀ Thr Glu Leu Pro Gly₆₃₅ Gly Val Pro Arg Asp₆₄₀
 Cys Lys Trp Glu Arg₆₄₅ Leu Asp Leu Gly Leu₆₅₀ Leu Tyr Leu Val Leu₆₅₅ Ile

Leu Pro Ser Cys Leu Thr Leu Leu Val Ala Cys Thr Val Ile Val Leu
660 665 670

Thr Phe Lys Lys Pro Leu Leu Gln Val Ile Lys Ser Arg Cys His Trp
675 680 685

Ser Ser Val Tyr
690

<210> 84
<211> 660
<212> PRT
<213> Homo sapiens

<220>
<221> característica_miscelánea
<223> soluble LRR33 (SLRR33)

<400> 84

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

Phe Ser Gly Val Leu Gly Trp Arg Asn Arg Ser Gly Thr Ala Thr Ala
20 25 30

Ala Ser Gln Gly Val Cys Lys Leu Val Gly Gly Ala Ala Asp Cys Arg
35 40 45

Gly Gln Ser Leu Ala Ser Val Pro Ser Ser Leu Pro Pro His Ala Arg
50 55 60

Met Leu Thr Leu Asp Ala Asn Pro Leu Lys Thr Leu Trp Asn His Ser
65 70 75 80

Leu Gln Pro Tyr Pro Leu Leu Glu Ser Leu Ser Leu His Ser Cys His
85 90 95

Leu Glu Arg Ile Ser Arg Gly Ala Phe Gln Glu Gln Gly His Leu Arg
100 105 110

Ser Leu Val Leu Gly Asp Asn Cys Leu Ser Glu Asn Tyr Glu Glu Thr
115 120 125

Ala Ala Ala Leu His Ala Leu Pro Gly Leu Arg Arg Leu Asp Leu Ser
130 135 140

Gly Asn Ala Leu Thr Glu Asp Met Ala Ala Leu Met Leu Gln Asn Leu
145 150 155 160

Ser Ser Leu Arg Ser Val Ser Leu Ala Gly Asn Thr Ile Met Arg Leu
165 170 175

Asp Asp Ser Val Phe Glu Gly Leu Glu Arg Leu Arg Glu Leu Asp Leu
180 185 190

Gln Arg Asn Tyr Ile Phe Glu Ile Glu Gly Gly Ala Phe Asp Gly Leu
195 200 205

Ala Glu Leu Arg His Leu Asn Leu Ala Phe Asn Asn Leu Pro Cys Ile
210 215 220

Val Asp Phe Gly Leu Thr Arg Leu Arg Val Leu Asn Val Ser Tyr Asn
225 230 235 240

Val Leu Glu Trp Phe Leu Ala Thr Gly Gly Glu Ala Ala Phe Glu Leu
245 250 255

Glu Thr Leu Asp Leu Ser His Asn Gln Leu Leu Phe Phe Pro Leu Leu
260 265 270

Pro Gln Tyr Ser Lys Leu Arg Thr Leu Leu Leu Arg Asp Asn Asn Met
275 280 285

Gly Phe Tyr Arg Asp Leu Tyr Asn Thr Ser Ser Pro Arg Glu Met Val
290 295 300

Ala Gln Phe Leu Leu Val Asp Gly Asn Val Thr Asn Ile Thr Thr Val
305 310 315 320

Ser Leu Trp Glu Glu Phe Ser Ser Ser Asp Leu Ala Asp Leu Arg Phe
325 330 335

Leu Asp Met Ser Gln Asn Gln Phe Gln Tyr Leu Pro Asp Gly Phe Leu
340 345 350

Arg Lys Met Pro Ser Leu Ser His Leu Asn Leu His Gln Asn Cys Leu
355 360 365

Met Thr Leu His Ile Arg Glu His Glu Pro Pro Gly Ala Leu Thr Glu
370 375 380

Leu Asp Leu Ser His Asn Gln Leu Ser Glu Leu His Leu Ala Pro Gly
385 390 395 400

Leu Ala Ser Cys Leu Gly Ser Leu Arg Leu Phe Asn Leu Ser Ser Asn
405 410 415

Gln Leu Leu Gly Val Pro Pro Gly Leu Phe Ala Asn Ala Arg Asn Ile
420 425 430

Thr Thr Leu Asp Met Ser His Asn Gln Ile Ser Leu Cys Pro Leu Pro
435 440 445

Ala Ala Ser Asp Arg Val Gly Pro Pro Ser Cys Val Asp Phe Arg Asn
450 455 460

Met Ala Ser Leu Arg Ser Leu Ser Leu Glu Gly Cys Gly Leu Gly Ala
465 470 475 480

Leu Pro Asp Cys Pro Phe Gln Gly Thr Ser Leu Thr Tyr Leu Asp Leu
485 490 495

Ser Ser Asn Trp Gly Val Leu Asn Gly Ser Leu Ala Pro Leu Gln Asp
500 505 510

Val Ala Pro Met Leu Gln Val Leu Ser Leu Arg Asn Met Gly Leu His
515 520 525

Ser Ser Phe Met Ala Leu Asp Phe Ser Gly Phe Gly Asn Leu Arg Asp
530 535 540

Leu Asp Leu Ser Gly Asn Cys Leu Thr Thr Phe Pro Arg Phe Gly Gly
545 550 555 560

Ser Leu Ala Leu Glu Thr Leu Asp Leu Arg Arg Asn Ser Leu Thr Ala
565 570 575

Leu Pro Gln Lys Ala Val Ser Glu Gln Leu Ser Arg Gly Leu Arg Thr
580 585 590

Ile Tyr Leu Ser Gln Asn Pro Tyr Asp Cys Cys Gly Val Asp Gly Trp
595 600 605

Gly Ala Leu Gln His Gly Gln Thr Val Ala Asp Trp Ala Met Val Thr
610 615 620

Cys Asn Leu Ser Ser Lys Ile Ile Arg Val Thr Glu Leu Pro Gly Gly
625 630 635 640

Val Pro Arg Asp Cys Lys Trp Glu Arg Leu Asp Leu Gly Leu His His
645 650 655

His His His His
660

<210> 85
<211> 5
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético: Ab3 CDRH1

<400> 85

Asn Tyr Ala Met Ser
1 5

<210> 86
 <211> 17
 <212> PRT
 <213> Secuencia Artificial

<220>
 <223> Sintético: Ab3 CDRH2

<400> 86

Ser Ile Ser Gly Ser Gly Gly Ala Thr Tyr Tyr Ala Asp Ser Val Lys
 1 5 10 15

Gly

<210> 87
 <211> 12
 <212> PRT
 <213> Secuencia Artificial

<220>
 <223> Sintético: Ab3 CDRH3

<400> 87

Ala Arg Val Ser Ser Gly His Trp Asp Phe Asp Tyr
 1 5 10

<210> 88
 <211> 11
 <212> PRT
 <213> Secuencia Artificial

<220>
 <223> Sintético: Ab3 CDRL1

<400> 88

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

<210> 89
 <211> 5
 <212> PRT
 <213> Secuencia Artificial

<220>
 <223> Sintético: Ab3 CDRL2

<400> 89

Ser Ser Leu Gln Ser
 1 5

<210> 90
 <211> 9
 <212> PRT
 <213> Secuencia Artificial

<220>
 <223> Sintético: Ab3 CDRL3

<400> 90

Gln Gln Ser Tyr Ser Ala Pro Phe Thr
 1 5

<210> 91
 <211> 369
 <212> ADN
 <213> Secuencia Artificial

<220>
 <223> Sintético: Ab1 Secuencia de ácidos nucleicos de región variable de cadena pesada

<400> 91
 gaggtgcaac tcgtggagtc aggcggtgga cttgttcagc ctgggcgaag tctgagactc 60
 tcatgtgcag caagtggatt cactttctcc agttacggca tgcactgggt gagacaggcg 120
 cctggaaagg gtttggaatg ggtcgtctgtg atctcttacg acgggtcaaa caaatattac 180
 gcggattcag tgaaagggcg gttcactatt tcacgggata actccaagaa caccctgtat 240
 ctgcagatga atagcctgag ggcagaggac accgctgtgt actattgtgc ccgggacata 300
 aggccttacg gcgattacag cgccgcattt gatatttggg gacaaggcac cttgtgaca 360
 gtatcttct 369

<210> 92
 <211> 338
 <212> ADN
 <213> Secuencia Artificial

<220>
 <223> Sintético: Ab1 Secuencia de ácidos nucleicos de región variable de cadena ligera

<400> 92
 aattttatgc ttaccaacc acatagtgtg agtgagtctc ccggcaagac tgtaacaatt 60
 tcatgtaccg gcagcagtgg ctccatcgct agcaattatg tgcaatggta ccaacagcgc 120
 cccgggagcg caccttcaat agtgatatcc gaggataacc aacggcctag tggggctccc 180
 gatagattta gtgggagtat agatagctcc tccaactctg cctctctcac cattagcggg 240
 ctgaaaacag aggatgaagc cgactattac tgccaaagct atgattctag caaccacggc 300
 ggagtgtttg gcggaggaac acagctgaca gtcctagg 338

<210> 93
 <211> 372
 <212> ADN
 <213> Secuencia Artificial

<220>
 <223> Sintético: Ab2 Secuencia de ácidos nucleicos de región variable de cadena pesada

<400> 93
 gaggtgcaac tggtgcaatc cggagccgag atgaaaaagc caggggagag cctgaagatc 60
 tcttgaagg gctctggcta taacttcgct agtgattgga tcggatgggt gaggcaaacc 120
 cccggaaagg gcctcgagtg gatgggcgtg atctaccccg gcgactccga cacacgctat 180
 agcgccctcat tccagggcca ggtcaccata agtgctgata aatcaataaa tacagcctac 240
 ttgcaatggc caagtctgaa agcctcagat actgccatgt actattgtgc ctctgccgcc 300
 ggcattgccg cggccggtca cgtcaccgcc ttcgacattt ggggtcaggg cactatggtc 360
 actgtaagct cc 372

<210> 94
 <211> 339
 <212> ADN
 <213> Secuencia Artificial

<220>
 <223> Sintético: Ab2 Secuencia de ácidos nucleicos de región variable de cadena ligera

<400> 94
 gacatagtca tgaccagtc acctgactct ttggccgtgt ctctggggga gagagccaca 60
 ataaattgca agtcatcaca gagcgtcctg tactcctcca ataataaaaa ttacctggcc 120
 tggtaccagc aaaagcccgg gcaaccccc aaattgttga tttactgggc tagtacaagg 180
 gaatctggag tgccagaccg gttttctggt tctggatctg gtactgactt caccctgaca 240
 atcagctccc tgcaggccga agacgtggct gtgtactatt gtcagcagta ctatagtaca 300
 ccagttactt tcggccaagg cactaaactc gaaatcaag 339

<210> 95
 <211> 119
 <212> PRT
 <213> Secuencia Artificial

<220>
 <223> Sintético: Ab3 Secuencia de amino ácidos de región variable de cadena pesada

<400> 95
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Arg Asn Tyr
 20 25 30
 Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Ser Ile Ser Gly Ser Gly Gly Ala Thr Tyr Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Val Ser Ser Gly His Trp Asp Phe Asp Tyr Trp Gly Gln Gly
 100 105 110
 Thr Leu Val Thr Val Ser Ser

115

<210> 96
 <211> 357
 <212> ADN
 <213> Secuencia Artificial

<220>
 <223> Sintético: Ab3 Secuencia de ácidos nucleicos de región variable de cadena pesada

<400> 96
 gaggttcagc ttctggagag cggcgggtgt cttgtacaac ctggaggatc actcaggttg 60
 tcatgtgccg caagcgggtt tacattcagg aactatgcaa tgagctgggt cagacaggct 120
 cccggcaagg gacttgagtg ggtatcttcc atcagcggat ctggaggagc aacatattat 180
 gcagatagtg tcaaaggcag gttcacaata agccgcgaca attctaaaaa tactctttat 240
 cttcaaatga atagccttag ggctgaggat acggcgggtg attattgtgc ccgcgtctca 300
 agcgggcatt gggacttcga ttattggggg cagggtactc tggttactgt ttcctcc 357

<210> 97
 <211> 107
 <212> PRT
 <213> Secuencia Artificial

<220>
 <223> Sintético: Ab3 Secuencia de amino ácidos de región variable de cadena ligera

<400> 97

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

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

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

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

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

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

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

<210> 98
 <211> 322
 <212> ADN
 <213> Secuencia Artificial

<220>
 <223> Sintético: Ab3 Secuencia de ácidos nucleicos de región variable de cadena ligera

<400> 98
 gacatccaaa tgacacagag cccgtcttcc ctctcagctt cagtcgggtga tcgagtgcag 60
 attacgtgcc gcgccagcca aagcatctcc tcctatctta actggtatca gcagaaaccc 120
 ggaaaggccc caaagttgct tatttacgac gcacacctcc ttcaatctgg tgtgcccagc 180
 aggttctcag gcagcgggtc aggaacggat ttactctta ccatttctag tcttcaacct 240
 gaggattttg cgacgtatta ctgtcaacag agctacagtgc gccggttcac ctttgggcag 300
 ggtactaagg ttgagataaa gc 322

<210> 99
 <211> 445
 <212> PRT
 <213> Secuencia Artificial

<220>
 <223> Sintético: Ab3 Secuencia de amino ácidos de cadena pesada

<400> 99

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

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

Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Ser Ile Ser Gly Ser Gly Gly Ala Thr Tyr Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Val Ser Ser Gly His Trp Asp Phe Asp Tyr Trp Gly Gln Gly
 100 105 110
 Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe
 115 120 125
 Pro Leu Ala Pro Cys Ser Arg Ser Thr Ser Glu Ser Thr Ala Ala Leu
 130 135 140
 Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp
 145 150 155 160
 Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu
 165 170 175
 Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser
 180 185 190
 Ser Ser Leu Gly Thr Lys Thr Tyr Thr Cys Asn Val Asp His Lys Pro
 195 200 205
 Ser Asn Thr Lys Val Asp Lys Arg Val Glu Ser Lys Tyr Gly Pro Pro
 210 215 220
 Cys Pro Pro Cys Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe
 225 230 235 240
 Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro
 245 250 255
 Glu Val Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val
 260 265 270
 Gln Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr
 275 280 285
 Lys Pro Arg Glu Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val
 290 295 300
 Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys
 305 310 315 320
 Lys Val Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser
 325 330 335
 Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro
 340 345 350
 Ser Gln Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val
 355 360 365
 Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly
 370 375 380
 Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp
 385 390 395 400
 Gly Ser Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp
 405 410 415
 Gln Glu Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His
 420 425 430
 Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu Gly
 435 440 445

<210> 100
 <211> 214
 <212> PRT
 <213> Secuencia Artificial

 <220>
 <223> Sintético: Ab3 Secuencia de amino ácidos de cadena ligera

 <400> 100
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser Tyr
 20 25 30
 Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 35 40 45
 Tyr Asp Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80
 Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Ala Pro Phe
 85 90 95
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala
 100 105 110
 Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly
 115 120 125
 Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala
 130 135 140
 Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln
 145 150 155 160
 Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser
 165 170 175
 Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr
 180 185 190
 Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser
 195 200 205
 Phe Asn Arg Gly Glu Cys
 210

<210> 101
 <211> 689
 <212> PRT
 <213> Secuencia Artificial

 <220>
 <223> Sintético: Quimera LRRC33-GARP Humano

 <400> 101
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 1 5 10 15
 Phe Ser Gly Val Leu Gly Trp Arg Asn Arg Ser Gly Thr Ala Thr Ala
 20 25 30
 Ala Ser Gln Gly Val Cys Lys Leu Val Gly Gly Ala Ala Asp Cys Arg
 35 40 45
 Gly Gln Ser Leu Ala Ser Val Pro Ser Ser Leu Pro Pro His Ala Arg
 50 55 60
 Met Leu Thr Leu Asp Ala Asn Pro Leu Lys Thr Leu Trp Asn His Ser
 65 70 75 80
 Leu Gln Pro Tyr Pro Leu Leu Glu Ser Leu Ser Leu His Ser Cys His
 85 90 95
 Leu Glu Arg Ile Ser Arg Gly Ala Phe Gln Glu Gln Gly His Leu Arg
 100 105 110

Ser Leu Val₁₁₅ Leu Gly Asp Asn Cys₁₂₀ Leu Ser Glu Asn Tyr₁₂₅ Glu Glu Thr
 Ala Ala₁₃₀ Ala Leu His Ala Leu₁₃₅ Pro Gly Leu Arg Arg₁₄₀ Leu Asp Leu Ser
 Gly Asn Ala Leu Thr Glu₁₅₀ Asp Met Ala Ala Leu₁₅₅ Met Leu Gln Asn Leu₁₆₀
 Ser Ser Leu Arg Ser₁₆₅ Val Ser Leu Ala Gly₁₇₀ Asn Thr Ile Met Arg₁₇₅ Leu
 Asp Asp Ser Val₁₈₀ Phe Glu Gly Leu Glu₁₈₅ Arg Leu Arg Glu Leu₁₉₀ Asp Leu
 Gln Arg Asn₁₉₅ Tyr Ile Phe Glu Ile₂₀₀ Glu Gly Gly Ala Phe₂₀₅ Asp Gly Leu
 Ala Glu₂₁₀ Leu Arg His Leu Asn₂₁₅ Leu Ala Phe Asn Asn₂₂₀ Leu Pro Cys Ile
 Val₂₂₅ Asp Phe Gly Leu Thr₂₃₀ Arg Leu Arg Val₂₃₅ Asn Val Ser Tyr Asn₂₄₀
 Val Leu Glu Trp Phe₂₄₅ Leu Ala Thr Gly Gly₂₅₀ Glu Ala Ala Phe Glu₂₅₅ Leu
 Glu Thr Leu Asp₂₆₀ Leu Ser His Asn Gln₂₆₅ Leu Leu Phe Phe Pro₂₇₀ Leu Leu
 Pro Gln Tyr₂₇₅ Ser Lys Leu Arg Thr₂₈₀ Leu Leu Leu Arg Asp₂₈₅ Asn Asn Met
 Gly Phe Tyr Arg Asp Leu Tyr₂₉₅ Asn Thr Ser Ser Pro Arg Glu Met Val
 Ala Gln Phe Leu Leu Val₃₁₀ Asp Gly Asn Val Thr₃₁₅ Asn Ile Thr Thr Val₃₂₀
 Ser Leu Trp Glu Glu₃₂₅ Phe Ser Ser Ser Asp₃₃₀ Leu Ala Asp Leu Arg₃₃₅ Phe
 Leu Asp Met Ser₃₄₀ Gln Asn Gln Phe Gln Tyr Leu Pro Asp Gly₃₅₀ Phe Leu
 Arg Lys Met₃₅₅ Pro Ser Leu Ser His₃₆₀ Leu Asn Leu His Gln₃₆₅ Asn Cys Leu
 Met Thr₃₇₀ Leu His Ile Arg Glu₃₇₅ His Glu Pro Pro Gly₃₈₀ Ala Leu Thr Glu
 Leu Asp Leu Ser His Asn₃₉₀ Gln Leu Ser Glu Leu₃₉₅ His Leu Ala Pro Gly₄₀₀
 Leu Ala Ser Cys Leu₄₀₅ Gly Ser Leu Arg Leu₄₁₀ Phe Asn Leu Ser Ser Asn
 Gln Leu Leu Gly₄₂₀ Val Pro Pro Gly Leu₄₂₅ Phe Ala Asn Ala Arg₄₃₀ Asn Ile
 Thr Thr Leu Asp Met Ser His Asn₄₄₀ Gln Ile Ser Leu Cys Pro Leu Pro
 Ala Ala₄₅₀ Ser Asp Arg Val Gly₄₅₅ Pro Pro Ser Cys Val₄₆₀ Asp Phe Arg Asn
 Met Ala Ser Leu Arg Ser₄₇₀ Leu Ser Leu Glu Gly₄₇₅ Cys Gly Leu Gly Ala₄₈₀
 Leu Pro Asp Cys Pro₄₈₅ Phe Gln Gly Thr Ser₄₉₀ Leu Thr Tyr Leu Asp₄₉₅ Leu
 Ser Ser Asn Trp₅₀₀ Gly Val Leu Asn Gly₅₀₅ Ser Leu Ala Pro Leu₅₁₀ Gln Asp
 Val Ala Pro Met Leu Gln Val Leu Ser Leu Arg Asn Met Gly Leu His

515

520

525

Ser Ser Phe Met Ala Leu Asp Phe Ser Gly Phe Gly Asn Leu Arg Asp
530 535 540

Leu Asp Leu Ser Gly Asn Cys Leu Thr Thr Phe Pro Arg Phe Gly Gly
545 550 555 560

Ser Leu Ala Leu Glu Thr Leu Asp Leu Arg Arg Asn Ser Leu Thr Ala
565 570 575

Leu Pro Gln Lys Ala Val Ser Glu Gln Leu Ser Arg Gly Leu Arg Thr
580 585 590

Ile Tyr Leu Ser Gln Asn Pro Tyr Asp Cys Cys Gly Val Asp Gly Trp
595 600 605

Gly Ala Leu Gln His Gly Gln Thr Val Ala Asp Trp Ala Met Val Thr
610 615 620

Cys Asn Leu Ser Ser Lys Ile Ile Arg Val Thr Glu Leu Pro Gly Gly
625 630 635 640

Val Pro Arg Asp Cys Lys Trp Glu Arg Leu Asp Leu Gly Leu Leu Ile
645 650 655

Ile Ile Leu Thr Phe Ile Leu Val Ser Ala Ile Leu Leu Thr Thr Leu
660 665 670

Ala Ala Cys Cys Cys Val Arg Arg Gln Lys Phe Asn Gln Gln Tyr Lys
675 680 685

Ala