

P-2017-14468 LISTADO DE SECUENCIAS.txt
LISTADO DE SECUENCIAS

<110> UTI LIMITED PARTNERSHIP

<120> COMPOSICIONES DE NANOPARTÍCULAS PARA TERAPIA SOSTENIDA

<130> 378701-0710

<140> PCT/IB2016/000691

<141> 2016-05-06

<150> 62/296,032

<151> 2016-02-16

<150> 62/273,953

<151> 2015-12-31

<150> 62/157,933

<151> 2015-05-06

<160> 504

<170> PatentIn version 3.5

<210> 1

<211> 110

<212> PRT

<213> Homo sapiens

<400> 1

Met Ala Leu Trp Met Arg Leu Leu Pro Leu Leu Ala Leu Leu Ala Leu
1 5 10 15

Trp Gly Pro Asp Pro Ala Ala Ala Phe Val Asn Gln His Leu Cys Gly
20 25 30

Ser His Leu Val Glu Ala Leu Tyr Leu Val Cys Gly Glu Arg Gly Phe
35 40 45

Phe Tyr Thr Pro Lys Thr Arg Arg Glu Ala Glu Asp Leu Gln Val Gly
50 55 60

Gln Val Glu Leu Gly Gly Gly Pro Gly Ala Gly Ser Leu Gln Pro Leu
65 70 75 80

Ala Leu Glu Gly Ser Leu Gln Lys Arg Gly Ile Val Glu Gln Cys Cys
85 90 95

Thr Ser Ile Cys Ser Leu Tyr Gln Leu Glu Asn Tyr Cys Asn
100 105 110

<210> 2

<211> 355

<212> PRT

<213> Homo sapiens

<400> 2

Met Asp Phe Leu His Arg Asn Gly Val Leu Ile Ile Gln His Leu Gln
1 5 10 15

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Lys Asp Tyr Arg Ala Tyr Tyr Thr Phe Leu Asn Phe Met Ser Asn Val
20 25 30

Gly Asp Pro Arg Asn Ile Phe Phe Ile Tyr Phe Pro Leu Cys Phe Gln
35 40 45

Phe Asn Gln Thr Val Gly Thr Lys Met Ile Trp Val Ala Val Ile Gly
50 55 60

Asp Trp Leu Asn Leu Ile Phe Lys Trp Ile Leu Phe Gly His Arg Pro
65 70 75 80

Tyr Trp Trp Val Gln Glu Thr Gln Ile Tyr Pro Asn His Ser Ser Pro
85 90 95

Cys Leu Glu Gln Phe Pro Thr Thr Cys Glu Thr Gly Pro Gly Ser Pro
100 105 110

Ser Gly His Ala Met Gly Ala Ser Cys Val Trp Tyr Val Met Val Thr
115 120 125

Ala Ala Leu Ser His Thr Val Cys Gly Met Asp Lys Phe Ser Ile Thr
130 135 140

Leu His Arg Leu Thr Trp Ser Phe Leu Trp Ser Val Phe Trp Leu Ile
145 150 155 160

Gln Ile Ser Val Cys Ile Ser Arg Val Phe Ile Ala Thr His Phe Pro
165 170 175

His Gln Val Ile Leu Gly Val Ile Gly Gly Met Leu Val Ala Glu Ala
180 185 190

Phe Glu His Thr Pro Gly Ile Gln Thr Ala Ser Leu Gly Thr Tyr Leu
195 200 205

Lys Thr Asn Leu Phe Leu Phe Leu Phe Ala Val Gly Phe Tyr Leu Leu
210 215 220

Leu Arg Val Leu Asn Ile Asp Leu Leu Trp Ser Val Pro Ile Ala Lys
225 230 235 240

Lys Trp Cys Ala Asn Pro Asp Trp Ile His Ile Asp Thr Thr Pro Phe
245 250 255

Ala Gly Leu Val Arg Asn Leu Gly Val Leu Phe Gly Leu Gly Phe Ala
260 265 270

Ile Asn Ser Glu Met Phe Leu Leu Ser Cys Arg Gly Gly Asn Asn Tyr
275 280 285

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Thr Leu Ser Phe Arg Leu Leu Cys Ala Leu Thr Ser Leu Thr Ile Leu
290 295 300

Gln Leu Tyr His Phe Leu Gln Ile Pro Thr His Glu Glu His Leu Phe
305 310 315 320

Tyr Val Leu Ser Phe Cys Lys Ser Ala Ser Ile Pro Leu Thr Val Val
325 330 335

Ala Phe Ile Pro Tyr Ser Val His Met Leu Met Lys Gln Ser Gly Lys
340 345 350

Lys Ser Gln
355

<210> 3
<211> 585
<212> PRT
<213> Homo sapiens

<400> 3
Met Ala Ser Pro Gly Ser Gly Phe Trp Ser Phe Gly Ser Glu Asp Gly
1 5 10 15

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

Ala Gln Lys Phe Thr Gly Gly Ile Gly Asn Lys Leu Cys Ala Leu Leu
35 40 45

Tyr Gly Asp Ala Glu Lys Pro Ala Glu Ser Gly Gly Ser Gln Pro Pro
50 55 60

Arg Ala Ala Ala Arg Lys Ala Ala Cys Ala Cys Asp Gln Lys Pro Cys
65 70 75 80

Ser Cys Ser Lys Val Asp Val Asn Tyr Ala Phe Leu His Ala Thr Asp
85 90 95

Leu Leu Pro Ala Cys Asp Gly Glu Arg Pro Thr Leu Ala Phe Leu Gln
100 105 110

Asp Val Met Asn Ile Leu Leu Gln Tyr Val Val Lys Ser Phe Asp Arg
115 120 125

Ser Thr Lys Val Ile Asp Phe His Tyr Pro Asn Glu Leu Leu Gln Glu
130 135 140

Tyr Asn Trp Glu Leu Ala Asp Gln Pro Gln Asn Leu Glu Glu Ile Leu
145 150 155 160

Met His Cys Gln Thr Thr Leu Lys Tyr Ala Ile Lys Thr Gly His Pro
165 170 175

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Arg Tyr Phe Asn Gln Leu Ser Thr Gly Leu Asp Met Val Gly Leu Ala
180 185 190

Ala Asp Trp Leu Thr Ser Thr Ala Asn Thr Asn Met Phe Thr Tyr Glu
195 200 205

Ile Ala Pro Val Phe Val Leu Leu Glu Tyr Val Thr Leu Lys Lys Met
210 215 220

Arg Glu Ile Ile Gly Trp Pro Gly Gly Ser Gly Asp Gly Ile Phe Ser
225 230 235 240

Pro Gly Gly Ala Ile Ser Asn Met Tyr Ala Met Met Ile Ala Arg Phe
245 250 255

Lys Met Phe Pro Glu Val Lys Glu Lys Gly Met Ala Ala Leu Pro Arg
260 265 270

Leu Ile Ala Phe Thr Ser Glu His Ser His Phe Ser Leu Lys Lys Gly
275 280 285

Ala Ala Ala Leu Gly Ile Gly Thr Asp Ser Val Ile Leu Ile Lys Cys
290 295 300

Asp Glu Arg Gly Lys Met Ile Pro Ser Asp Leu Glu Arg Arg Ile Leu
305 310 315 320

Glu Ala Lys Gln Lys Gly Phe Val Pro Phe Leu Val Ser Ala Thr Ala
325 330 335

Gly Thr Thr Val Tyr Gly Ala Phe Asp Pro Leu Leu Ala Val Ala Asp
340 345 350

Ile Cys Lys Lys Tyr Lys Ile Trp Met His Val Asp Ala Ala Trp Gly
355 360 365

Gly Gly Leu Leu Met Ser Arg Lys His Lys Trp Lys Leu Ser Gly Val
370 375 380

Glu Arg Ala Asn Ser Val Thr Trp Asn Pro His Lys Met Met Gly Val
385 390 395 400

Pro Leu Gln Cys Ser Ala Leu Leu Val Arg Glu Glu Gly Leu Met Gln
405 410 415

Asn Cys Asn Gln Met His Ala Ser Tyr Leu Phe Gln Gln Asp Lys His
420 425 430

Tyr Asp Leu Ser Tyr Asp Thr Gly Asp Lys Ala Leu Gln Cys Gly Arg
435 440 445

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His Val Asp Val Phe Lys Leu Trp Leu Met Trp Arg Ala Lys Gly Thr
450 455 460

Thr Gly Phe Glu Ala His Val Asp Lys Cys Leu Glu Leu Ala Glu Tyr
465 470 475 480

Leu Tyr Asn Ile Ile Lys Asn Arg Glu Gly Tyr Glu Met Val Phe Asp
485 490 495

Gly Lys Pro Gln His Thr Asn Val Cys Phe Trp Tyr Ile Pro Pro Ser
500 505 510

Leu Arg Thr Leu Glu Asp Asn Glu Glu Arg Met Ser Arg Leu Ser Lys
515 520 525

Val Ala Pro Val Ile Lys Ala Arg Met Met Glu Tyr Gly Thr Thr Met
530 535 540

Val Ser Tyr Gln Pro Leu Gly Asp Lys Val Asn Phe Phe Arg Met Val
545 550 555 560

Ile Ser Asn Pro Ala Ala Thr His Gln Asp Ile Asp Phe Leu Ile Glu
565 570 575

Glu Ile Glu Arg Leu Gly Gln Asp Leu
580 585

<210> 4
<211> 470
<212> PRT
<213> Homo sapiens

<400> 4
Met Ser His His Pro Ser Gly Leu Arg Ala Gly Phe Ser Ser Thr Ser
1 5 10 15

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

Ser Tyr Ser Ser Ser Arg Phe Ser Ser Ser Arg Leu Leu Gly Ser
35 40 45

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

Ala Gly Ala Gly Ala Leu Leu Arg Leu Pro Ser Glu Arg Leu Asp Phe
65 70 75 80

Ser Met Ala Glu Ala Leu Asn Gln Glu Phe Leu Ala Thr Arg Ser Asn
85 90 95

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Glu Lys Gln Glu Leu Gln Glu Leu Asn Asp Arg Phe Ala Asn Phe Ile
100 105 110

Glu Lys Val Arg Phe Leu Glu Gln Gln Asn Ala Ala Leu Arg Gly Glu
115 120 125

Leu Ser Gln Ala Arg Gly Gln Glu Pro Ala Arg Ala Asp Gln Leu Cys
130 135 140

Gln Gln Glu Leu Arg Glu Leu Arg Arg Glu Leu Glu Leu Leu Gly Arg
145 150 155 160

Glu Arg Asp Arg Val Gln Val Glu Arg Asp Gly Leu Ala Glu Asp Leu
165 170 175

Ala Ala Leu Lys Gln Arg Leu Glu Glu Glu Thr Arg Lys Arg Glu Asp
180 185 190

Ala Glu His Asn Leu Val Leu Phe Arg Lys Asp Val Asp Asp Ala Thr
195 200 205

Leu Ser Arg Leu Glu Leu Glu Arg Lys Ile Glu Ser Leu Met Asp Glu
210 215 220

Ile Glu Phe Leu Lys Lys Leu His Glu Glu Glu Leu Arg Asp Leu Gln
225 230 235 240

Val Ser Val Glu Ser Gln Gln Val Gln Gln Val Glu Val Glu Ala Thr
245 250 255

Val Lys Pro Glu Leu Thr Ala Ala Leu Arg Asp Ile Arg Ala Gln Tyr
260 265 270

Glu Ser Ile Ala Ala Lys Asn Leu Gln Glu Ala Glu Glu Trp Tyr Lys
275 280 285

Ser Lys Tyr Ala Asp Leu Ser Asp Ala Ala Asn Arg Asn His Glu Ala
290 295 300

Leu Arg Gln Ala Lys Gln Glu Met Asn Glu Ser Arg Arg Gln Ile Gln
305 310 315 320

Ser Leu Thr Cys Glu Val Asp Gly Leu Arg Gly Thr Asn Glu Ala Leu
325 330 335

Leu Arg Gln Leu Arg Glu Leu Glu Glu Gln Phe Ala Leu Glu Ala Gly
340 345 350

Gly Tyr Gln Ala Gly Ala Ala Arg Leu Glu Glu Glu Leu Arg Gln Leu
355 360 365

P-2017-14468 LISTADO DE SECUENCIAS.txt

Lys Glu Glu Met Ala Arg His Leu Arg Glu Tyr Gln Glu Leu Leu Asn
370 375 380

Val Lys Met Ala Leu Asp Ile Glu Ile Ala Thr Tyr Arg Lys Leu Leu
385 390 395 400

Glu Gly Glu Glu Ser Arg Ile Ser Val Pro Val His Ser Phe Ala Ser
405 410 415

Leu Asn Ile Lys Thr Thr Val Pro Glu Val Glu Pro Pro Gln Asp Ser
420 425 430

His Ser Arg Lys Thr Val Leu Ile Lys Thr Ile Glu Thr Arg Asn Gly
435 440 445

Glu Val Val Thr Glu Ser Gln Lys Glu Gln Arg Ser Glu Leu Asp Lys
450 455 460

Ser Ser Ala His Ser Tyr
465 470

<210> 5
<211> 288
<212> PRT
<213> Homo sapiens

<400> 5
Met Lys Thr Phe Leu Ile Leu Ala Leu Leu Ala Ile Val Ala Thr Thr
1 5 10 15

Ala Thr Thr Ala Val Arg Val Pro Val Pro Gln Leu Gln Pro Gln Asn
20 25 30

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

Gln Phe Leu Gly Gln Gln Gln Pro Phe Pro Pro Gln Gln Pro Tyr Pro
50 55 60

Gln Pro Gln Pro Phe Pro Ser Gln Gln Pro Tyr Leu Gln Leu Gln Pro
65 70 75 80

Phe Pro Gln Pro Gln Leu Pro Tyr Ser Gln Pro Gln Pro Phe Arg Pro
85 90 95

Gln Gln Pro Tyr Pro Gln Pro Gln Pro Gln Tyr Ser Gln Pro Gln Gln
100 105 110

Pro Ile Ser Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln
115 120 125

Gln Gln Gln Gln Gln Gln Gln Ile Leu Gln Gln Ile Leu Gln Gln Gln
130 135 140

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Leu Ile Pro Cys Met Asp Val Val Leu Gln Gln His Asn Ile Ala His
145 150 155 160

Gly Arg Ser Gln Val Leu Gln Gln Ser Thr Tyr Gln Leu Leu Gln Glu
165 170 175

Leu Cys Cys Gln His Leu Trp Gln Ile Pro Glu Gln Ser Gln Cys Gln
180 185 190

Ala Ile His Lys Val Val His Ala Ile Ile Leu His Gln Gln Gln Lys
195 200 205

Gln Gln Gln Gln Pro Ser Ser Gln Val Ser Phe Gln Gln Pro Leu Gln
210 215 220

Gln Tyr Pro Leu Gly Gln Gly Ser Phe Arg Pro Ser Gln Gln Asn Pro
225 230 235 240

Gln Ala Gln Gly Ser Val Gln Pro Gln Gln Leu Pro Gln Phe Glu Glu
245 250 255

Ile Arg Asn Leu Ala Leu Gln Thr Leu Pro Ala Met Cys Asn Val Tyr
260 265 270

Ile Pro Pro Tyr Cys Thr Ile Thr Pro Phe Gly Ile Phe Gly Thr Asn
275 280 285

<210> 6
<211> 268
<212> PRT
<213> Homo sapiens

<400> 6
Val Arg Val Pro Val Pro Gln Leu Gln Pro Gln Asn Pro Ser Gln Gln
1 5 10 15

Gln Pro Gln Glu Gln Val Pro Leu Val Gln Gln Gln Gln Phe Leu Gly
20 25 30

Gln Gln Gln Pro Phe Pro Pro Gln Gln Pro Tyr Pro Gln Pro Gln Pro
35 40 45

Phe Pro Ser Gln Gln Pro Tyr Leu Gln Leu Gln Pro Phe Pro Gln Pro
50 55 60

Gln Leu Pro Tyr Ser Gln Pro Gln Pro Phe Arg Pro Gln Gln Pro Tyr
65 70 75 80

Pro Gln Pro Gln Pro Gln Tyr Ser Gln Pro Gln Gln Pro Ile Ser Gln
85 90 95

P-2017-14468 LISTADO DE SECUENCIAS.txt

Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln
100 105 110

Gln Gln Gln Ile Leu Gln Gln Ile Leu Gln Gln Gln Leu Ile Pro Cys
115 120 125

Met Asp Val Val Leu Gln Gln His Asn Ile Ala His Gly Arg Ser Gln
130 135 140

Val Leu Gln Gln Ser Thr Tyr Gln Leu Leu Gln Glu Leu Cys Cys Gln
145 150 155 160

His Leu Trp Gln Ile Pro Glu Gln Ser Gln Cys Gln Ala Ile His Lys
165 170 175

Val Val His Ala Ile Ile Leu His Gln Gln Gln Lys Gln Gln Gln Gln
180 185 190

Pro Ser Ser Gln Val Ser Phe Gln Gln Pro Leu Gln Gln Tyr Pro Leu
195 200 205

Gly Gln Gly Ser Phe Arg Pro Ser Gln Gln Asn Pro Gln Ala Gln Gly
210 215 220

Ser Val Gln Pro Gln Gln Leu Pro Gln Phe Glu Glu Ile Arg Asn Leu
225 230 235 240

Ala Leu Gln Thr Leu Pro Ala Met Cys Asn Val Tyr Ile Pro Pro Tyr
245 250 255

Cys Thr Ile Thr Pro Phe Gly Ile Phe Gly Thr Asn
260 265

<210> 7
<211> 647
<212> PRT
<213> Homo sapiens

<400> 7
Met Trp Arg Val Cys Ala Arg Arg Ala Gln Asn Val Ala Pro Trp Ala
1 5 10 15

Gly Leu Glu Ala Arg Trp Thr Ala Leu Gln Glu Val Pro Gly Thr Pro
20 25 30

Arg Val Thr Ser Arg Ser Gly Pro Ala Pro Ala Arg Arg Asn Ser Val
35 40 45

Thr Thr Gly Tyr Gly Gly Val Arg Ala Leu Cys Gly Trp Thr Pro Ser
50 55 60

Ser Gly Ala Thr Pro Arg Asn Arg Leu Leu Leu Gln Leu Leu Gly Ser
65 70 75 80

P-2017-14468 LISTADO DE SECUENCIAS.txt

Pro Gly Arg Arg Tyr Tyr Ser Leu Pro Pro His Gln Lys Val Pro Leu
85 90 95

Pro Ser Leu Ser Pro Thr Met Gln Ala Gly Thr Ile Ala Arg Trp Glu
100 105 110

Lys Lys Glu Gly Asp Lys Ile Asn Glu Gly Asp Leu Ile Ala Glu Val
115 120 125

Glu Thr Asp Lys Ala Thr Val Gly Phe Glu Ser Leu Glu Glu Cys Tyr
130 135 140

Met Ala Lys Ile Leu Val Ala Glu Gly Thr Arg Asp Val Pro Ile Gly
145 150 155 160

Ala Ile Ile Cys Ile Thr Val Gly Lys Pro Glu Asp Ile Glu Ala Phe
165 170 175

Lys Asn Tyr Thr Leu Asp Ser Ser Ala Ala Pro Thr Pro Gln Ala Ala
180 185 190

Pro Ala Pro Thr Pro Ala Ala Thr Ala Ser Pro Pro Thr Pro Ser Ala
195 200 205

Gln Ala Pro Gly Ser Ser Tyr Pro Pro His Met Gln Val Leu Leu Pro
210 215 220

Ala Leu Ser Pro Thr Met Thr Met Gly Thr Val Gln Arg Trp Glu Lys
225 230 235 240

Lys Val Gly Glu Lys Leu Ser Glu Gly Asp Leu Leu Ala Glu Ile Glu
245 250 255

Thr Asp Lys Ala Thr Ile Gly Phe Glu Val Gln Glu Glu Gly Tyr Leu
260 265 270

Ala Lys Ile Leu Val Pro Glu Gly Thr Arg Asp Val Pro Leu Gly Thr
275 280 285

Pro Leu Cys Ile Ile Val Glu Lys Glu Ala Asp Ile Ser Ala Phe Ala
290 295 300

Asp Tyr Arg Pro Thr Glu Val Thr Asp Leu Lys Pro Gln Val Pro Pro
305 310 315 320

Pro Thr Pro Pro Pro Val Ala Ala Val Pro Pro Thr Pro Gln Pro Leu
325 330 335

Ala Pro Thr Pro Ser Ala Pro Cys Pro Ala Thr Pro Ala Gly Pro Lys
340 345 350

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

Gly Ile Asp Leu Thr Gln Val Lys Gly Thr Gly Pro Asp Gly Arg Ile
370 375 380

Thr Lys Lys Asp Ile Asp Ser Phe Val Pro Ser Lys Val Ala Pro Ala
385 390 395 400

Pro Ala Ala Val Val Pro Pro Thr Gly Pro Gly Met Ala Pro Val Pro
405 410 415

Thr Gly Val Phe Thr Asp Ile Pro Ile Ser Asn Ile Arg Arg Val Ile
420 425 430

Ala Gln Arg Leu Met Gln Ser Lys Gln Thr Ile Pro His Tyr Tyr Leu
435 440 445

Ser Ile Asp Val Asn Met Gly Glu Val Leu Leu Val Arg Lys Glu Leu
450 455 460

Asn Lys Ile Leu Glu Gly Arg Ser Lys Ile Ser Val Asn Asp Phe Ile
465 470 475 480

Ile Lys Ala Ser Ala Leu Ala Cys Leu Lys Val Pro Glu Ala Asn Ser
485 490 495

Ser Trp Met Asp Thr Val Ile Arg Gln Asn His Val Val Asp Val Ser
500 505 510

Val Ala Val Ser Thr Pro Ala Gly Leu Ile Thr Pro Ile Val Phe Asn
515 520 525

Ala His Ile Lys Gly Val Glu Thr Ile Ala Asn Asp Val Val Ser Leu
530 535 540

Ala Thr Lys Ala Arg Glu Gly Lys Leu Gln Pro His Glu Phe Gln Gly
545 550 555 560

Gly Thr Phe Thr Ile Ser Asn Leu Gly Met Phe Gly Ile Lys Asn Phe
565 570 575

Ser Ala Ile Ile Asn Pro Pro Gln Ala Cys Ile Leu Ala Ile Gly Ala
580 585 590

Ser Glu Asp Lys Leu Val Pro Ala Asp Asn Glu Lys Gly Phe Asp Val
595 600 605

Ala Ser Met Met Ser Val Thr Leu Ser Cys Asp His Arg Val Val Asp
610 615 620

P-2017-14468 LISTADO DE SECUENCIAS.txt

Gly Ala Val Gly Ala Gln Trp Leu Ala Glu Phe Arg Lys Tyr Leu Glu
625 630 635 640

Lys Pro Ile Thr Met Leu Leu
645

<210> 8
<211> 910
<212> PRT
<213> Homo sapiens

<400> 8
Met Asn Trp His Phe Leu Arg Thr Ala Thr Val Leu Leu Ile Phe Leu
1 5 10 15

Val Val Val Glu Ile Asn Ser Glu Phe Arg Ile Gln Val Arg Asp Tyr
20 25 30

Asn Thr Lys Asn Gly Thr Ile Lys Trp His Ser Ile Arg Arg Gln Lys
35 40 45

Arg Glu Trp Ile Lys Phe Ala Ala Ala Cys Arg Glu Gly Glu Asp Asn
50 55 60

Ser Lys Arg Asn Pro Ile Ala Lys Ile His Ser Asp Cys Ala Ala Asn
65 70 75 80

Gln Gln Val Thr Tyr Arg Ile Ser Gly Val Gly Ile Asp Gln Pro Pro
85 90 95

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

Ser Ile Val Asp Arg Glu Ile Thr Pro Phe Phe Ile Ile Tyr Cys Arg
115 120 125

Ala Leu Asn Ser Leu Gly Gln Asp Leu Glu Arg Pro Leu Glu Leu Arg
130 135 140

Val Arg Val Leu Asp Ile Asn Asp Asn Pro Pro Val Phe Ser Met Ser
145 150 155 160

Thr Phe Val Gly Gln Ile Glu Glu Asn Ser Asn Ala Asn Thr Leu Val
165 170 175

Met Arg Leu Asn Ala Thr Gly Ala Asp Glu Pro Asn Asn Leu Asn Ser
180 185 190

Lys Ile Ala Phe Lys Ile Ile Arg Gln Glu Pro Ser Asp Ser Pro Met
195 200 205

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Phe Ile Ile Asn Arg Asn Thr Gly Glu Ile Arg Thr Met Asn Asn Phe
 210 215 220
 Leu Asp Arg Glu Gln Tyr Ser Gln Tyr Ser Leu Ala Val Arg Gly Ser
 225 230 235 240
 Asp Arg Asp Gly Gly Ala Asp Gly Met Ser Ala Glu Cys Glu Cys Asn
 245 250 255
 Ile Lys Ile Leu Asp Val Asn Asp Asn Ile Pro Tyr Met Glu Pro Ser
 260 265 270
 Ser His Met Val Arg Ile Glu Glu Asn Ala Leu Ser Gln Asn Leu Val
 275 280 285
 Glu Ile Arg Val Ile Asp Leu Asp Glu Glu Phe Ser Ala Asn Trp Met
 290 295 300
 Ala Val Ile Phe Phe Ile Ser Gly Asn Glu Gly Gly Trp Phe Asp Ile
 305 310 315 320
 Glu Met Asn Glu Arg Thr Asn Val Gly Ile Leu Lys Val Ile Lys Pro
 325 330 335
 Leu Asp Tyr Glu Ala Val Gln Asn Leu Gln Leu Ser Leu Gly Val Arg
 340 345 350
 Asn Lys Ala Asp Phe His His Ser Ile Met Ser Gln Tyr Lys Val Thr
 355 360 365
 Ala Thr Ala Ile Ser Val Thr Val Leu Asn Val Ile Glu Gly Ser Val
 370 375 380
 Phe Arg Pro Gly Ser Lys Thr Tyr Val Val Arg Ser Asp Met Gly Gln
 385 390 395 400
 Asn Tyr Lys Val Gly Asp Phe Val Ala Thr Asp Leu Asp Thr Gly Leu
 405 410 415
 Ala Ser Thr Thr Val Arg Tyr Val Met Gly Asn Asn Pro Ala Asn Leu
 420 425 430
 Leu Asn Val Asp Ser Lys Thr Gly Val Ile Thr Leu Arg Asn Lys Val
 435 440 445
 Thr Met Glu Gln Tyr Glu Met Leu Asn Gly Lys Tyr Gln Gly Thr Ile
 450 455 460
 Leu Ser Ile Asp Asp Ala Leu Gln Arg Thr Cys Thr Gly Thr Ile Asn
 465 470 475 480

P-2017-14468 LISTADO DE SECUENCIAS.txt

Ile Asp Leu Gln Gly Ser Gly Trp Glu Lys Asp Ser Glu Lys Val Thr
485 490 495

Ser Ser Gln Asn Ser Gly Ser Ser Thr Gly Asp Ser Ser Gly Gly Thr
500 505 510

Gly Gly Gly Gly Arg Glu Asn Pro Ser Glu Gly Asp Thr Thr Thr Asn
515 520 525

Thr Gly Gly Lys Thr Ser Thr Asp Tyr Glu Asp Gly Glu Thr Gln Thr
530 535 540

Gln Ser Asn Asn Asn His Gln Glu Leu Gly Ser Asn Asn Leu Ser Asp
545 550 555 560

Asn Val His Phe Gly Pro Ala Gly Ile Gly Leu Leu Ile Met Gly Phe
565 570 575

Leu Val Leu Gly Leu Val Pro Phe Leu Leu Met Cys Cys Asp Cys Gly
580 585 590

Gly Ala Pro Gly Ala Gly Ala Gly Phe Glu Pro Val Pro Glu Cys Ser
595 600 605

Asp Gly Ala Ile His Ser Trp Ala Val Glu Gly Pro Gln Pro Leu Pro
610 615 620

Thr Asp Ala Thr Thr Val Cys Val Pro Pro Ile Pro Ser Asn Asn Ala
625 630 635 640

Asn Val Ile Glu Cys Ile Asp Thr Ser Gly Val Tyr Thr Asn Glu Tyr
645 650 655

Gly Gly Arg Glu Met Gln Asp Leu Gly Gly Gly Glu Arg Thr Thr Gly
660 665 670

Phe Glu Leu Thr Glu Gly Val Lys Thr Ser Gly Val Pro Glu Ile Cys
675 680 685

Gln Glu Tyr Ser Gly Thr Leu Arg Arg Asn Ser Met Arg Glu Cys Arg
690 695 700

Glu Gly Gly Leu Asn Met Asn Phe Met Glu Ser Tyr Phe Cys Gln Lys
705 710 715 720

Ala Tyr Ala Tyr Ala Asp Glu Asp Glu Gly Arg Pro Ser Asn Asp Cys
725 730 735

Leu Leu Ile Tyr Asp Ile Glu Gly Val Gly Ser Pro Ala Gly Ser Val
740 745 750

P-2017-14468 LISTADO DE SECUENCIAS.txt

Gly Cys Cys Ser Phe Ile Gly Glu Asp Leu Asp Asp Ser Phe Leu Asp
755 760 765

Thr Leu Gly Pro Lys Phe Lys Lys Leu Ala Asp Ile Ser Leu Gly Lys
770 775 780

Glu Val Glu Pro Asp Pro Ser Trp Pro Pro Glu Ser Thr Glu Pro Ile
785 790 795 800

Cys Pro Gln Gln Gly Thr Glu Pro Ile Ile Gly Gly His Pro Pro Ile
805 810 815

Ser Pro His Phe Gly Thr Thr Thr Val Ile Ser Glu Asn Thr Tyr Pro
820 825 830

Ser Gly Pro Gly Val Gln His Pro Met Pro Ile Pro Asp Pro Leu Gly
835 840 845

Tyr Gly Asn Val Thr Val Thr Glu Ser Tyr Thr Thr Ser Gly Thr Leu
850 855 860

Lys Pro Thr Val His Val His Asp Asn Arg His Ala Ser Asn Val Val
865 870 875 880

Val Thr Glu Arg Val Val Gly Pro Ile Ser Gly Thr Asp Leu His Gly
885 890 895

Met Leu Glu Met Pro Asp Leu Arg Asp Gly Ser Asn Val Ile
900 905 910

<210> 9
<211> 999
<212> PRT
<213> Homo sapiens

<400> 9
Met Met Gly Leu Phe Pro Arg Thr Thr Gly Ala Leu Ala Ile Phe Val
1 5 10 15

Val Val Ile Leu Val His Gly Glu Leu Arg Ile Glu Thr Lys Gly Gln
20 25 30

Tyr Asp Glu Glu Glu Met Thr Met Gln Gln Ala Lys Arg Arg Gln Lys
35 40 45

Arg Glu Trp Val Lys Phe Ala Lys Pro Cys Arg Glu Gly Glu Asp Asn
50 55 60

Ser Lys Arg Asn Pro Ile Ala Lys Ile Thr Ser Asp Tyr Gln Ala Thr
65 70 75 80

Gln Lys Ile Thr Tyr Arg Ile Ser Gly Val Gly Ile Asp Gln Pro Pro
85 90 95

P-2017-14468 LISTADO DE SECUENCIAS.txt

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

P-2017-14468 LISTADO DE SECUENCIAS.txt

Pro Val Thr Ile Gln Val Ile Asn Val Arg Glu Gly Ile Ala Phe Arg
370 375 380

Pro Ala Ser Lys Thr Phe Thr Val Gln Lys Gly Ile Ser Ser Lys Lys
385 390 395 400

Leu Val Asp Tyr Ile Leu Gly Thr Tyr Gln Ala Ile Asp Glu Asp Thr
405 410 415

Asn Lys Ala Ala Ser Asn Val Lys Tyr Val Met Gly Arg Asn Asp Gly
420 425 430

Gly Tyr Leu Met Ile Asp Ser Lys Thr Ala Glu Ile Lys Phe Val Lys
435 440 445

Asn Met Asn Arg Asp Ser Thr Phe Ile Val Asn Lys Thr Ile Thr Ala
450 455 460

Glu Val Leu Ala Ile Asp Glu Tyr Thr Gly Lys Thr Ser Thr Gly Thr
465 470 475 480

Val Tyr Val Arg Val Pro Asp Phe Asn Asp Asn Cys Pro Thr Ala Val
485 490 495

Leu Glu Lys Asp Ala Val Cys Ser Ser Ser Pro Ser Val Val Val Ser
500 505 510

Ala Arg Thr Leu Asn Asn Arg Tyr Thr Gly Pro Tyr Thr Phe Ala Leu
515 520 525

Glu Asp Gln Pro Val Lys Leu Pro Ala Val Trp Ser Ile Thr Thr Leu
530 535 540

Asn Ala Thr Ser Ala Leu Leu Arg Ala Gln Glu Gln Ile Pro Pro Gly
545 550 555 560

Val Tyr His Ile Ser Leu Val Leu Thr Asp Ser Gln Asn Asn Arg Cys
565 570 575

Glu Met Pro Arg Ser Leu Thr Leu Glu Val Cys Gln Cys Asp Asn Arg
580 585 590

Gly Ile Cys Gly Thr Ser Tyr Pro Thr Thr Ser Pro Gly Thr Arg Tyr
595 600 605

Gly Arg Pro His Ser Gly Arg Leu Gly Pro Ala Ala Ile Gly Leu Leu
610 615 620

Leu Leu Gly Leu Leu Leu Leu Leu Leu Ala Pro Leu Leu Leu Leu Thr
625 630 635 640

P-2017-14468 LISTADO DE SECUENCIAS.txt

Cys Asp Cys Gly Ala Gly Ser Thr Gly Gly Val Thr Gly Gly Phe Ile
645 650 655

Pro Val Pro Asp Gly Ser Glu Gly Thr Ile His Gln Trp Gly Ile Glu
660 665 670

Gly Ala His Pro Glu Asp Lys Glu Ile Thr Asn Ile Cys Val Pro Pro
675 680 685

Val Thr Ala Asn Gly Ala Asp Phe Met Glu Ser Ser Glu Val Cys Thr
690 695 700

Asn Thr Tyr Ala Arg Gly Thr Ala Val Glu Gly Thr Ser Gly Met Glu
705 710 715 720

Met Thr Thr Lys Leu Gly Ala Ala Thr Glu Ser Gly Gly Ala Ala Gly
725 730 735

Phe Ala Thr Gly Thr Val Ser Gly Ala Ala Ser Gly Phe Gly Ala Ala
740 745 750

Thr Gly Val Gly Ile Cys Ser Ser Gly Gln Ser Gly Thr Met Arg Thr
755 760 765

Arg His Ser Thr Gly Gly Thr Asn Lys Asp Tyr Ala Asp Gly Ala Ile
770 775 780

Ser Met Asn Phe Leu Asp Ser Tyr Phe Ser Gln Lys Ala Phe Ala Cys
785 790 795 800

Ala Glu Glu Asp Asp Gly Gln Glu Ala Asn Asp Cys Leu Leu Ile Tyr
805 810 815

Asp Asn Glu Gly Ala Asp Ala Thr Gly Ser Pro Val Gly Ser Val Gly
820 825 830

Cys Cys Ser Phe Ile Ala Asp Asp Leu Asp Asp Ser Phe Leu Asp Ser
835 840 845

Leu Gly Pro Lys Phe Lys Lys Leu Ala Glu Ile Ser Leu Gly Val Asp
850 855 860

Gly Glu Gly Lys Glu Val Gln Pro Pro Ser Lys Asp Ser Gly Tyr Gly
865 870 875 880

Ile Glu Ser Cys Gly His Pro Ile Glu Val Gln Gln Thr Gly Phe Val
885 890 895

Lys Cys Gln Thr Leu Ser Gly Ser Gln Gly Ala Ser Ala Leu Ser Thr
900 905 910

P-2017-14468 LISTADO DE SECUENCIAS.txt

Ser Gly Ser Val Gln Pro Ala Val Ser Ile Pro Asp Pro Leu Gln His
915 920 925

Gly Asn Tyr Leu Val Thr Glu Thr Tyr Ser Ala Ser Gly Ser Leu Val
930 935 940

Gln Pro Ser Thr Ala Gly Phe Asp Pro Leu Leu Thr Gln Asn Val Ile
945 950 955 960

Val Thr Glu Arg Val Ile Cys Pro Ile Ser Ser Val Pro Gly Asn Leu
965 970 975

Ala Gly Pro Thr Gln Leu Arg Gly Ser His Thr Met Leu Cys Thr Glu
980 985 990

Asp Pro Cys Ser Arg Leu Ile
995

<210> 10
<211> 323
<212> PRT
<213> Homo sapiens

<400> 10
Met Ser Asp Arg Pro Thr Ala Arg Arg Trp Gly Lys Cys Gly Pro Leu
1 5 10 15

Cys Thr Arg Glu Asn Ile Met Val Ala Phe Lys Gly Val Trp Thr Gln
20 25 30

Ala Phe Trp Lys Ala Val Thr Ala Glu Phe Leu Ala Met Leu Ile Phe
35 40 45

Val Leu Leu Ser Leu Gly Ser Thr Ile Asn Trp Gly Gly Thr Glu Lys
50 55 60

Pro Leu Pro Val Asp Met Val Leu Ile Ser Leu Cys Phe Gly Leu Ser
65 70 75 80

Ile Ala Thr Met Val Gln Cys Phe Gly His Ile Ser Gly Gly His Ile
85 90 95

Asn Pro Ala Val Thr Val Ala Met Val Cys Thr Arg Lys Ile Ser Ile
100 105 110

Ala Lys Ser Val Phe Tyr Ile Ala Ala Gln Cys Leu Gly Ala Ile Ile
115 120 125

Gly Ala Gly Ile Leu Tyr Leu Val Thr Pro Pro Ser Val Val Gly Gly
130 135 140

P-2017-14468 LISTADO DE SECUENCIAS.txt

Leu Gly Val Thr Met Val His Gly Asn Leu Thr Ala Gly His Gly Leu
145 150 155 160

Leu Val Glu Leu Ile Ile Thr Phe Gln Leu Val Phe Thr Ile Phe Ala
165 170 175

Ser Cys Asp Ser Lys Arg Thr Asp Val Thr Gly Ser Ile Ala Leu Ala
180 185 190

Ile Gly Phe Ser Val Ala Ile Gly His Leu Phe Ala Ile Asn Tyr Thr
195 200 205

Gly Ala Ser Met Asn Pro Ala Arg Ser Phe Gly Pro Ala Val Ile Met
210 215 220

Gly Asn Trp Glu Asn His Trp Ile Tyr Trp Val Gly Pro Ile Ile Gly
225 230 235 240

Ala Val Leu Ala Gly Gly Leu Tyr Glu Tyr Val Phe Cys Pro Asp Val
245 250 255

Glu Phe Lys Arg Arg Phe Lys Glu Ala Phe Ser Lys Ala Ala Gln Gln
260 265 270

Thr Lys Gly Ser Tyr Met Glu Val Glu Asp Asn Arg Ser Gln Val Glu
275 280 285

Thr Asp Asp Leu Ile Leu Lys Pro Gly Val Val His Val Ile Asp Val
290 295 300

Asp Arg Gly Glu Glu Lys Lys Gly Lys Asp Gln Ser Gly Glu Val Leu
305 310 315 320

Ser Ser Val

<210> 11

<211> 277

<212> PRT

<213> Homo sapiens

<400> 11

Met Gly Leu Leu Glu Cys Cys Ala Arg Cys Leu Val Gly Ala Pro Phe
1 5 10 15

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

Cys Gly Cys Gly His Glu Ala Leu Thr Gly Thr Glu Lys Leu Ile Glu
35 40 45

Thr Tyr Phe Ser Lys Asn Tyr Gln Asp Tyr Glu Tyr Leu Ile Asn Val
50 55 60

P-2017-14468 LISTADO DE SECUENCIAS.txt

Ile His Ala Phe Gln Tyr Val Ile Tyr Gly Thr Ala Ser Phe Phe Phe
65 70 75 80

Leu Tyr Gly Ala Leu Leu Leu Ala Glu Gly Phe Tyr Thr Thr Gly Ala
85 90 95

Val Arg Gln Ile Phe Gly Asp Tyr Lys Thr Thr Ile Cys Gly Lys Gly
100 105 110

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

Gln His Gln Ala His Ser Leu Glu Arg Val Cys His Cys Leu Gly Lys
130 135 140

Trp Leu Gly His Pro Asp Lys Phe Val Gly Ile Thr Tyr Ala Leu Thr
145 150 155 160

Val Val Trp Leu Leu Val Phe Ala Cys Ser Ala Val Pro Val Tyr Ile
165 170 175

Tyr Phe Asn Thr Trp Thr Thr Cys Gln Ser Ile Ala Phe Pro Ser Lys
180 185 190

Thr Ser Ala Ser Ile Gly Ser Leu Cys Ala Asp Ala Arg Met Tyr Gly
195 200 205

Val Leu Pro Trp Asn Ala Phe Pro Gly Lys Val Cys Gly Ser Asn Leu
210 215 220

Leu Ser Ile Cys Lys Thr Ala Glu Phe Gln Met Thr Phe His Leu Phe
225 230 235 240

Ile Ala Ala Phe Val Gly Ala Ala Ala Thr Leu Val Ser Leu Leu Thr
245 250 255

Phe Met Ile Ala Ala Thr Tyr Asn Phe Ala Val Leu Lys Leu Met Gly
260 265 270

Arg Gly Thr Lys Phe
275

<210> 12
<211> 247
<212> PRT
<213> Homo sapiens

<400> 12
Met Ala Ser Leu Ser Arg Pro Ser Leu Pro Ser Cys Leu Cys Ser Phe
1 5 10 15

P-2017-14468 LISTADO DE SECUENCIAS.txt

Leu Leu Leu Leu Leu Leu Gln Val Ser Ser Ser Tyr Ala Gly Gln Phe
20 25 30

Arg Val Ile Gly Pro Arg His Pro Ile Arg Ala Leu Val Gly Asp Glu
35 40 45

Val Glu Leu Pro Cys Arg Ile Ser Pro Gly Lys Asn Ala Thr Gly Met
50 55 60

Glu Val Gly Trp Tyr Arg Pro Pro Phe Ser Arg Val Val His Leu Tyr
65 70 75 80

Arg Asn Gly Lys Asp Gln Asp Gly Asp Gln Ala Pro Glu Tyr Arg Gly
85 90 95

Arg Thr Glu Leu Leu Lys Asp Ala Ile Gly Glu Gly Lys Val Thr Leu
100 105 110

Arg Ile Arg Asn Val Arg Phe Ser Asp Glu Gly Gly Phe Thr Cys Phe
115 120 125

Phe Arg Asp His Ser Tyr Gln Glu Glu Ala Ala Met Glu Leu Lys Val
130 135 140

Glu Asp Pro Phe Tyr Trp Val Ser Pro Gly Val Leu Val Leu Leu Ala
145 150 155 160

Val Leu Pro Val Leu Leu Leu Gln Ile Thr Val Gly Leu Ile Phe Leu
165 170 175

Cys Leu Gln Tyr Arg Leu Arg Gly Lys Leu Arg Ala Glu Ile Glu Asn
180 185 190

Leu His Arg Thr Phe Asp Pro His Phe Leu Arg Val Pro Cys Trp Lys
195 200 205

Ile Thr Leu Phe Val Ile Val Pro Val Leu Gly Pro Leu Val Ala Leu
210 215 220

Ile Ile Cys Tyr Asn Trp Leu His Arg Arg Leu Ala Gly Gln Phe Leu
225 230 235 240

Glu Glu Leu Arg Asn Pro Phe
245

<210> 13

<211> 304

<212> PRT

<213> Homo sapiens

<400> 13

Met Gly Asn His Ala Gly Lys Arg Glu Leu Asn Ala Glu Lys Ala Ser
1 5 10 15

P-2017-14468 LISTADO DE SECUENCIAS.txt

Thr Asn Ser Glu Thr Asn Arg Gly Glu Ser Glu Lys Lys Arg Asn Leu
20 25 30

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

Ala Asp Ala Asn Gln Asn Asn Gly Thr Ser Ser Gln Asp Thr Ala Val
50 55 60

Thr Asp Ser Lys Arg Thr Ala Asp Pro Lys Asn Ala Trp Gln Asp Ala
65 70 75 80

His Pro Ala Asp Pro Gly Ser Arg Pro His Leu Ile Arg Leu Phe Ser
85 90 95

Arg Asp Ala Pro Gly Arg Glu Asp Asn Thr Phe Lys Asp Arg Pro Ser
100 105 110

Glu Ser Asp Glu Leu Gln Thr Ile Gln Glu Asp Ser Ala Ala Thr Ser
115 120 125

Glu Ser Leu Asp Val Met Ala Ser Gln Lys Arg Pro Ser Gln Arg His
130 135 140

Gly Ser Lys Tyr Leu Ala Thr Ala Ser Thr Met Asp His Ala Arg His
145 150 155 160

Gly Phe Leu Pro Arg His Arg Asp Thr Gly Ile Leu Asp Ser Ile Gly
165 170 175

Arg Phe Phe Gly Gly Asp Arg Gly Ala Pro Lys Arg Gly Ser Gly Lys
180 185 190

Asp Ser His His Pro Ala Arg Thr Ala His Tyr Gly Ser Leu Pro Gln
195 200 205

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

Lys Asn Ile Val Thr Pro Arg Thr Pro Pro Ser Gln Gly Lys Gly
225 230 235 240

Arg Gly Leu Ser Leu Ser Arg Phe Ser Trp Gly Ala Glu Gly Gln Arg
245 250 255

Pro Gly Phe Gly Tyr Gly Gly Arg Ala Ser Asp Tyr Lys Ser Ala His
260 265 270

Lys Gly Phe Lys Gly Val Asp Ala Gln Gly Thr Leu Ser Lys Ile Phe
275 280 285

P-2017-14468 LISTADO DE SECUENCIAS.txt

Lys Leu Gly Gly Arg Asp Ser Arg Ser Gly Ser Pro Met Ala Arg Arg
290 295 300

<210> 14
<211> 963
<212> PRT
<213> Homo sapiens

<400> 14
Met Arg Gly Ala Ser Val Thr Val Ala Ala Val Arg Cys Gly Asp Val
1 5 10 15

Ala Gly Ser Cys Val Asp Gly Arg Tyr Asn Asp Lys Asp Val Trp Lys
20 25 30

Cys Arg Cys Val Cys Asp Thr Gly Thr Val Cys Asp Asp Cys Asp Val
35 40 45

Lys Asp Cys Ser Gly Cys Cys Cys Thr Asp Ala Thr Ala Ser Gly Gly
50 55 60

Lys Gly Lys Gly Gly Asp Lys Asp Val Gly Lys Gly Gly Gly Ala Gly
65 70 75 80

Gly Arg Gly Asp Arg Gly Asp Lys Gly Lys Gly Ala Gly Arg Gly Arg
85 90 95

Asp Gly Gly Thr Gly Asn Gly Gly Gly Gly Gly Gly Gly Asn Ala Ala
100 105 110

Met Ala Gly Gly Asp Lys Ala Gly Gly Ala Gly Val Met Gly Met Gly
115 120 125

Met Gly Arg Gly Gly Ala Gly Ala Gly Gly Gly Asn Gly Gly Gly Val
130 135 140

Ser Gly Met Gly Arg Gly Gly Gly Lys Gly Asp Asp Gly Ala Gly Lys
145 150 155 160

Gly Lys Ala Gly Arg Gly Gly Gly Ala Arg Gly Gly Thr Gly Gly Val
165 170 175

Lys Gly His Arg Gly Tyr Gly Asp Gly Ala Lys Gly Ala Gly Ala Gly
180 185 190

Val Lys Gly Ser Gly Ser Gly Asn Gly Ser Gly Met Gly Arg Gly Gly
195 200 205

Arg Gly Arg Thr Gly Ala Gly Ala Ala Gly Ala Arg Gly Asn Asp Gly
210 215 220

P-2017-14468 LISTADO DE SECUENCIAS.txt

Gly Ala Gly Gly Val Gly Ala Gly Gly Gly Gly Ala Gly Ala Lys Gly
225 230 235 240

Ala Gly Thr Gly Ala Arg Gly Gly Ala Gly Arg Gly Gly Thr Gly Ser
245 250 255

Gly Ala Gly Ala Ser Gly Asn Gly Thr Asp Gly Gly Ala Lys Gly Ser
260 265 270

Ala Gly Ala Gly Ala Gly Ala Gly Gly Arg Gly Gly Gly Ala Thr Gly
275 280 285

Gly Lys Gly Thr Gly Gly Ala Gly Lys Gly Gly Lys Gly Gly Ala Gly
290 295 300

Gly Ala Gly Ala Gly Gly Lys Arg Gly Ala Arg Gly Gly Gly Val Gly
305 310 315 320

Gly Gly Arg Gly Ala Gly Asn Arg Gly Gly Asp Gly Ala Gly Lys Gly
325 330 335

Ala Gly Arg Gly Ser Gly Ala Gly Lys Gly Ala Asn Gly Asp Gly Arg
340 345 350

Gly Gly Gly Ala Arg Gly Thr Gly Arg Gly Asp Ala Gly Gly Lys Val
355 360 365

Gly Ser Gly Ala Gly Asp Gly Arg Gly Gly Gly Ala Arg Gly Gly Val
370 375 380

Met Gly Gly Lys Gly Ala Asn Gly Gly Lys Ala Gly Lys Gly Gly Ala
385 390 395 400

Gly Arg Gly Gly Lys Asp Gly Thr Gly Ala Ala Gly Gly Ala Gly Ala
405 410 415

Gly Arg Gly Gly Ala Gly Ser Gly Gly Gly Gly Gly Gly Lys Gly
420 425 430

Asp Gly Val Gly Ala Gly Ala Gly Val Gly Arg Gly Arg Gly Gly Arg
435 440 445

Gly Ser Gly Ala Gly Gly Arg Gly Gly Thr Gly Thr Asp Gly Lys Gly
450 455 460

Ala Ser Gly Ala Gly Gly Ala Gly Gly Gly Met Gly Arg Gly Ala Ala
465 470 475 480

Gly Ala Gly Lys Gly Asp Arg Gly Asp Val Gly Lys Gly Gly Ala Gly
485 490 495

P-2017-14468 LISTADO DE SECUENCIAS.txt

Lys Asp Gly Gly Arg Gly Thr Gly Gly Ala Gly Ala Asn Gly Lys
500 505 510

Gly Val Gly Gly Ala Gly Ser Ala Gly Ala Arg Gly Ala Gly Arg Gly
515 520 525

Thr Gly Gly Ala Gly Ala Gly Gly Ala Asp Gly Gly Ala Lys Gly Gly
530 535 540

Ala Gly Lys Gly Asp Ala Gly Ala Gly Gly Ser Gly Ala Gly Gly Thr
545 550 555 560

Gly Val Thr Gly Lys Gly Ala Arg Gly Ala Gly Gly Ala Thr Gly Gly
565 570 575

Ala Ala Gly Arg Val Gly Gly Ser Asn Gly Asn Gly Gly Gly Ser Gly
580 585 590

Lys Asp Gly Lys Gly Ala Arg Gly Asp Ser Gly Gly Arg Ala Gly Gly
595 600 605

Gly Ala Gly Gly Lys Gly Gly Asp Asp Gly Ser Gly Ala Gly Gly Gly
610 615 620

Ala Gly Arg Gly Val Gly Gly Arg Gly Arg Gly Gly Gly Ser Gly Gly
625 630 635 640

Lys Gly Ala Gly Ala Ser Gly Asp Arg Gly Gly Val Gly Gly Thr Gly
645 650 655

Ala Gly Gly Arg Gly Ser Gly Ala Asp Gly Gly Arg Asp Gly Ala Ala
660 665 670

Gly Val Lys Gly Asp Arg Gly Thr Gly Ala Val Gly Ala Gly Ala Gly
675 680 685

Gly Ser Gly Ala Gly Thr Gly Lys Gly Asp Arg Gly Ala Gly Ala Gly
690 695 700

Met Gly Ser Gly Ala Gly Ala Arg Gly Gly Gly Arg Gly Asp Lys Gly
705 710 715 720

Ala Gly Gly Arg Gly Lys Gly His Arg Gly Thr Gly Gly Gly Gly Ser
725 730 735

Gly Asp Gly Ala Ser Gly Ala Gly Ser Gly Arg Gly Gly Val Gly Ser
740 745 750

Gly Lys Asp Gly Ala Asn Gly Gly Gly Gly Arg Gly Arg Ser Gly Thr
755 760 765

P-2017-14468 LISTADO DE SECUENCIAS.txt

Gly Ala Gly Gly Asn Gly Gly Gly Gly Gly Asp Met Ser Ala Ala Gly
770 775 780

Gly Arg Lys Gly Asp Tyr Met Arg Ala Asp Ala Ala Gly Gly Arg His
785 790 795 800

Asp Ala Val Asp Ala Thr Lys Ser Asn Asn Ser Arg Ser Gly Ser Arg
805 810 815

Lys Asn Ala Arg Thr Cys Arg Asp Lys Cys His Trp Lys Ser Gly Asp
820 825 830

Tyr Trp Asp Asn Gly Cys Thr Asp Ala Met Lys Val Cys Asn Met Thr
835 840 845

Gly Thr Cys Val Tyr Asn Ala Asn Val Lys Lys Asn Trp Trp Ser Ser
850 855 860

Lys Ser Lys Lys Lys His Trp Gly Thr Asn Gly Gly His Ser Tyr Gly
865 870 875 880

Asp Asp Asn Ala Asn Thr Ala Asn Val Met Thr Arg Ser Thr Gly Ser
885 890 895

Asn Thr Tyr His Cys Lys Asn Ser Ala Tyr Asp Ala Ala Gly Asn Lys
900 905 910

Lys Ala Gly Ser Asn Asp Val Arg Ala Gly Asn Ser Arg Thr Tyr Thr
915 920 925

Ala Lys Asp Gly Cys Thr Lys His Thr Gly Lys Trp Gly Lys Thr Val
930 935 940

Tyr Arg Ser Lys Thr Ser Arg Asp Ala Met Asp Gly Gly Gly Val Asp
945 950 955 960

Gly Val Cys

<210> 15

<211> 1419

<212> PRT

<213> Homo sapiens

<400> 15

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

Ile Ala Ala Val Leu Arg Cys Gln Gly Gln Asp Ala Arg Lys Leu Gly
20 25 30

Pro Lys Gly Gln Lys Gly Glu Pro Gly Asp Ile Arg Asp Ile Ile Gly
35 40 45

P-2017-14468 LISTADO DE SECUENCIAS.txt

Pro Arg Gly Pro Pro Gly Pro Gln Gly Pro Ala Gly Glu Gln Gly Pro
50 55 60

Arg Gly Asp Arg Gly Asp Lys Gly Glu Lys Gly Ala Pro Gly Pro Arg
65 70 75 80

Gly Arg Asp Gly Glu Pro Gly Thr Pro Gly Asn Pro Gly Pro Ala Gly
85 90 95

Pro Pro Gly Pro Pro Gly Pro Pro Gly Leu Ser Ala Gly Asn Phe Ala
100 105 110

Ala Gln Met Ala Gly Gly Tyr Asp Glu Lys Ala Gly Gly Ala Gln Met
115 120 125

Gly Val Met Gln Gly Pro Met Gly Pro Met Gly Pro Arg Gly Pro Pro
130 135 140

Gly Pro Ala Gly Ala Pro Gly Pro Gln Gly Phe Gln Gly Asn Pro Gly
145 150 155 160

Glu Pro Gly Glu Pro Gly Val Ser Gly Pro Met Gly Pro Arg Gly Pro
165 170 175

Pro Gly Pro Ala Gly Lys Pro Gly Asp Asp Gly Glu Ala Gly Lys Pro
180 185 190

Gly Lys Ser Gly Glu Arg Gly Leu Pro Gly Pro Gln Gly Ala Arg Gly
195 200 205

Phe Pro Gly Thr Pro Gly Leu Pro Gly Val Lys Gly His Arg Gly Tyr
210 215 220

Pro Gly Leu Asp Gly Ala Lys Gly Glu Ala Gly Ala Pro Gly Val Lys
225 230 235 240

Gly Glu Ser Gly Ser Pro Gly Glu Asn Gly Ser Pro Gly Pro Met Gly
245 250 255

Pro Arg Gly Leu Pro Gly Glu Arg Gly Arg Thr Gly Pro Ala Gly Ala
260 265 270

Ala Gly Ala Arg Gly Asn Asp Gly Gln Pro Gly Pro Ala Gly Pro Pro
275 280 285

Gly Pro Val Gly Pro Ala Gly Gly Pro Gly Phe Pro Gly Ala Pro Gly
290 295 300

Ala Lys Gly Glu Ala Gly Pro Thr Gly Ala Arg Gly Pro Glu Gly Ala
305 310 315 320

P-2017-14468 LISTADO DE SECUENCIAS.txt

Gln Gly Ser Arg Gly Glu Pro Gly Asn Pro Gly Ser Pro Gly Pro Ala
325 330 335

Gly Ala Ser Gly Asn Pro Gly Thr Asp Gly Ile Pro Gly Ala Lys Gly
340 345 350

Ser Ala Gly Ala Pro Gly Ile Ala Gly Ala Pro Gly Phe Pro Gly Pro
355 360 365

Arg Gly Pro Pro Gly Pro Gln Gly Ala Thr Gly Pro Leu Gly Pro Lys
370 375 380

Gly Gln Ala Gly Glu Pro Gly Ile Ala Gly Phe Lys Gly Asp Gln Gly
385 390 395 400

Pro Lys Gly Glu Thr Gly Pro Ala Gly Pro Gln Gly Ala Pro Gly Pro
405 410 415

Ala Gly Glu Glu Gly Lys Arg Gly Ala Arg Gly Glu Pro Gly Gly Ala
420 425 430

Gly Pro Ile Gly Pro Pro Gly Glu Arg Gly Ala Pro Gly Asn Arg Gly
435 440 445

Phe Pro Gly Gln Asp Gly Leu Ala Gly Pro Lys Gly Ala Pro Gly Glu
450 455 460

Arg Gly Pro Ser Gly Leu Thr Gly Pro Lys Gly Ala Asn Gly Asp Pro
465 470 475 480

Gly Arg Pro Gly Glu Pro Gly Leu Pro Gly Ala Arg Gly Leu Thr Gly
485 490 495

Arg Pro Gly Asp Ala Gly Pro Gln Gly Lys Val Gly Pro Ser Gly Ala
500 505 510

Pro Gly Glu Asp Gly Arg Pro Gly Pro Pro Gly Pro Gln Gly Ala Arg
515 520 525

Gly Gln Pro Gly Val Met Gly Phe Pro Gly Pro Lys Gly Ala Asn Gly
530 535 540

Glu Pro Gly Lys Ala Gly Glu Lys Gly Leu Ala Gly Ala Pro Gly Leu
545 550 555 560

Arg Gly Leu Pro Gly Lys Asp Gly Glu Thr Gly Ala Ala Gly Pro Pro
565 570 575

Gly Pro Ser Gly Pro Ala Gly Glu Arg Gly Glu Gln Gly Ala Pro Gly
580 585 590

P-2017-14468 LISTADO DE SECUENCIAS.txt

Pro Ser Gly Phe Gln Gly Leu Pro Gly Pro Pro Gly Pro Pro Gly Glu
595 600 605

Gly Gly Lys Gln Gly Asp Gln Gly Ile Pro Gly Glu Ala Gly Ala Pro
610 615 620

Gly Leu Val Gly Pro Arg Gly Glu Arg Gly Phe Pro Gly Glu Arg Gly
625 630 635 640

Ser Pro Gly Ala Gln Gly Leu Gln Gly Pro Arg Gly Leu Pro Gly Thr
645 650 655

Pro Gly Thr Asp Gly Pro Lys Gly Ala Ala Gly Pro Asp Gly Pro Pro
660 665 670

Gly Ala Gln Gly Pro Pro Gly Leu Gln Gly Met Pro Gly Glu Arg Gly
675 680 685

Ala Ala Gly Ile Ala Gly Pro Lys Gly Asp Arg Gly Asp Val Gly Glu
690 695 700

Lys Gly Pro Glu Gly Ala Pro Gly Lys Asp Gly Gly Arg Gly Leu Thr
705 710 715 720

Gly Pro Ile Gly Pro Pro Gly Pro Ala Gly Ala Asn Gly Glu Lys Gly
725 730 735

Glu Val Gly Pro Pro Gly Pro Ser Gly Ser Thr Gly Ala Arg Gly Ala
740 745 750

Pro Gly Glu Arg Gly Glu Thr Gly Pro Pro Gly Pro Ala Gly Phe Ala
755 760 765

Gly Pro Pro Gly Ala Asp Gly Gln Pro Gly Ala Lys Gly Asp Gln Gly
770 775 780

Glu Ala Gly Gln Lys Gly Asp Ala Gly Ala Pro Gly Pro Gln Gly Pro
785 790 795 800

Ser Gly Ala Pro Gly Pro Gln Gly Pro Thr Gly Val Thr Gly Pro Lys
805 810 815

Gly Ala Arg Gly Ala Gln Gly Pro Pro Gly Ala Thr Gly Phe Pro Gly
820 825 830

Ala Ala Gly Arg Val Gly Pro Pro Gly Ala Asn Gly Asn Pro Gly Pro
835 840 845

Ala Gly Pro Pro Gly Pro Ala Gly Lys Asp Gly Pro Lys Gly Val Arg
850 855 860

P-2017-14468 LISTADO DE SECUENCIAS.txt

Gly Asp Ser Gly Pro Pro Gly Arg Ala Gly Asp Pro Gly Leu Gln Gly
865 870 875 880

Pro Ala Gly Ala Pro Gly Glu Lys Gly Glu Pro Gly Asp Asp Gly Pro
885 890 895

Ser Gly Leu Asp Gly Pro Pro Gly Pro Gln Gly Leu Ala Gly Gln Arg
900 905 910

Gly Ile Val Gly Leu Pro Gly Gln Arg Gly Glu Arg Gly Phe Pro Gly
915 920 925

Leu Pro Gly Pro Ser Gly Glu Pro Gly Lys Gln Gly Ala Pro Gly Ala
930 935 940

Ser Gly Asp Arg Gly Pro Pro Gly Pro Val Gly Pro Pro Gly Leu Thr
945 950 955 960

Gly Pro Ala Gly Glu Pro Gly Arg Glu Gly Ser Pro Gly Ala Asp Gly
965 970 975

Pro Pro Gly Arg Asp Gly Ala Ala Gly Val Lys Gly Asp Arg Gly Glu
980 985 990

Thr Gly Ala Leu Gly Ala Pro Gly Ala Pro Gly Pro Pro Gly Ser Pro
995 1000 1005

Gly Pro Ala Gly Pro Thr Gly Lys Gln Gly Asp Arg Gly Glu Ala
1010 1015 1020

Gly Ala Gln Gly Pro Met Gly Pro Ser Gly Pro Ala Gly Ala Arg
1025 1030 1035

Gly Ile Ala Gly Pro Gln Gly Pro Arg Gly Asp Lys Gly Glu Ser
1040 1045 1050

Gly Glu Gln Gly Glu Arg Gly Leu Lys Gly His Arg Gly Phe Thr
1055 1060 1065

Gly Leu Gln Gly Leu Pro Gly Pro Pro Gly Pro Ser Gly Asp Gln
1070 1075 1080

Gly Ala Ser Gly Pro Ala Gly Pro Ser Gly Pro Arg Gly Pro Pro
1085 1090 1095

Gly Pro Val Gly Pro Ser Gly Lys Asp Gly Ser Asn Gly Ile Pro
1100 1105 1110

Gly Pro Ile Gly Pro Pro Gly Pro Arg Gly Arg Ser Gly Glu Thr
1115 1120 1125

P-2017-14468 LISTADO DE SECUENCIAS.txt

Gly	Pro	Val	Gly	Pro	Pro	Gly	Ser	Pro	Gly	Pro	Pro	Gly	Pro	Pro
1130						1135					1140			
Gly	Pro	Pro	Gly	Pro	Gly	Ile	Asp	Met	Ser	Ala	Phe	Ala	Gly	Leu
1145						1150					1155			
Gly	Gln	Arg	Glu	Lys	Gly	Pro	Asp	Pro	Met	Gln	Tyr	Met	Arg	Ala
1160						1165					1170			
Asp	Glu	Ala	Asp	Ser	Thr	Leu	Arg	Gln	His	Asp	Val	Glu	Val	Asp
1175						1180					1185			
Ala	Thr	Leu	Lys	Ser	Leu	Asn	Asn	Gln	Ile	Glu	Ser	Ile	Arg	Ser
1190						1195					1200			
Pro	Asp	Gly	Ser	Arg	Lys	Asn	Pro	Ala	Arg	Thr	Cys	Gln	Asp	Leu
1205						1210					1215			
Lys	Leu	Cys	His	Pro	Glu	Trp	Lys	Ser	Gly	Asp	Tyr	Trp	Ile	Asp
1220						1225					1230			
Pro	Asn	Gln	Gly	Cys	Thr	Leu	Asp	Ala	Met	Lys	Val	Phe	Cys	Asn
1235						1240					1245			
Met	Glu	Thr	Gly	Glu	Thr	Cys	Val	Tyr	Pro	Asn	Pro	Ala	Thr	Val
1250						1255					1260			
Pro	Arg	Lys	Asn	Trp	Trp	Ser	Ser	Lys	Ser	Lys	Glu	Lys	Lys	His
1265						1270					1275			
Ile	Trp	Phe	Gly	Glu	Thr	Met	Asn	Gly	Gly	Phe	His	Phe	Ser	Tyr
1280						1285					1290			
Gly	Asp	Gly	Asn	Leu	Ala	Pro	Asn	Thr	Ala	Asn	Val	Gln	Met	Thr
1295						1300					1305			
Phe	Leu	Arg	Leu	Leu	Ser	Thr	Glu	Gly	Ser	Gln	Asn	Ile	Thr	Tyr
1310						1315					1320			
His	Cys	Lys	Asn	Ser	Ile	Ala	Tyr	Leu	Asp	Glu	Ala	Ala	Gly	Asn
1325						1330					1335			
Leu	Lys	Lys	Ala	Leu	Leu	Ile	Gln	Gly	Ser	Asn	Asp	Val	Glu	Met
1340						1345					1350			
Arg	Ala	Glu	Gly	Asn	Ser	Arg	Phe	Thr	Tyr	Thr	Ala	Leu	Lys	Asp
1355						1360					1365			
Gly	Cys	Thr	Lys	His	Thr	Gly	Lys	Trp	Gly	Lys	Thr	Val	Ile	Glu
1370						1375					1380			

P-2017-14468 LISTADO DE SECUENCIAS.txt

Tyr Arg Ser Gln Lys Thr Ser Arg Leu Pro Ile Ile Asp Ile Ala
1385 1390 1395

Pro Met Asp Ile Gly Gly Ala Glu Gln Glu Phe Gly Val Asp Ile
1400 1405 1410

Gly Pro Val Cys Phe Leu
1415

<210> 16
<211> 216
<212> PRT
<213> Homo sapiens

<220>
<221> MOD_RES
<222> (5)..(5)
<223> Cualquier aminoácido

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Cualquier aminoácido

<220>
<221> MOD_RES
<222> (47)..(47)
<223> Cualquier aminoácido

<400> 16
Asn Glu Ile Ala Xaa Ala Lys Ile Asp Leu Arg Gln Met Arg Thr Val
1 5 10 15

Thr Pro Ile Xaa Met Gln Gly Gly Cys Gly Ser Cys Trp Ala Leu Ser
20 25 30

Gly Val Ala Ala Thr Glu Ser Ala Tyr Leu Ala Tyr Gly Asn Xaa Ser
35 40 45

Leu Asp Leu Ala Glu Gln Glu Leu Val Asp Cys Ala Ser Gln His Gly
50 55 60

Cys His Gly Asp Thr Ile Pro Arg Gly Ile Glu Tyr Ile Gln His Asn
65 70 75 80

Gly Val Val Gln Glu Ser Tyr Tyr Arg Tyr Val Ala Arg Glu Gln Ser
85 90 95

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

Ile Tyr Pro Pro Asn Val Asn Lys Ile Arg Glu Ala Leu Ala Gln Thr
115 120 125

P-2017-14468 LISTADO DE SECUENCIAS.txt

His Ser Ala Ile Ala Val Ile Ile Gly Ile Lys Asp Leu Asp Ala Phe
130 135 140

Arg His Tyr Asp Gly Arg Thr Ile Ile Gln Arg Asp Asn Gly Tyr Gln
145 150 155 160

Pro Asn Tyr His Ala Val Asn Ile Val Gly Tyr Ser Asn Ala Gln Gly
165 170 175

Val Asp Tyr Trp Ile Val Arg Asn Ser Trp Asp Thr Asn Trp Gly Asp
180 185 190

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

Glu Tyr Pro Tyr Val Val Ile Leu
210 215

<210> 17
<211> 146
<212> PRT
<213> Homo sapiens

<400> 17
Met Met Tyr Lys Ile Leu Cys Leu Ser Leu Leu Val Ala Ala Val Ala
1 5 10 15

Arg Asp Gln Val Asp Val Lys Asp Cys Ala Asn His Glu Ile Lys Lys
20 25 30

Val Leu Val Pro Gly Cys His Gly Ser Glu Pro Cys Ile Ile His Arg
35 40 45

Gly Lys Pro Phe Gln Leu Glu Ala Val Phe Glu Ala Asn Gln Asn Thr
50 55 60

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

Asp Val Pro Gly Ile Asp Pro Asn Ala Cys His Tyr Met Lys Cys Pro
85 90 95

Leu Val Lys Gly Gln Gln Tyr Asp Ile Lys Tyr Thr Trp Asn Val Pro
100 105 110

Lys Ile Ala Pro Lys Ser Glu Asn Val Val Val Thr Val Lys Val Met
115 120 125

Gly Asp Asp Gly Val Leu Ala Cys Ala Ile Ala Thr His Ala Lys Ile
130 135 140

Arg Asp
145

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<210> 18
 <211> 406
 <212> PRT
 <213> Homo sapiens

<400> 18
 Met Asp Lys Ile Arg Tyr Arg Leu Val Tyr Asn Arg Gln Asn Thr Leu
 1 5 10 15

Asn Arg Gln Gly Thr Ala Leu Val Gln Val Glu Ala Tyr Leu Asn Gln
 20 25 30

Arg Lys Ile Tyr Leu Lys Thr Asn Val Tyr Leu Lys Pro Glu Cys Trp
 35 40 45

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

Asn Ile Met Leu Tyr Glu Tyr Ile Leu Tyr Leu Gln Gly Ile Glu Leu
 65 70 75 80

Gly Tyr Trp Lys Arg Gly Ile Pro Ala Thr Leu Ser Leu Leu Lys Asp
 85 90 95

Ala Val Lys Lys Lys Ser Ala Val Asn Ile Ser Phe Ser Thr Phe Ala
 100 105 110

Lys Ser Ala Ile Asp Asn Ser Asp Lys Lys Gln Ser Thr Lys Asp Asn
 115 120 125

Leu His Ser Thr Leu Ala Val Leu His Asp Phe Arg Ser Gly Leu Asp
 130 135 140

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

Arg Glu Lys Gly Asn Ala Val Asn Thr Ile Ala Lys His Met Arg Gln
 165 170 175

Leu Arg Thr Leu Val Asn Glu Ala Ile Asn Gln Gly Tyr Met His Ala
 180 185 190

Asp Ala Tyr Pro Phe Arg Lys Tyr Lys Ile Lys Gln Glu Lys Gly Arg
 195 200 205

His Glu Phe Leu Thr Pro Asp Glu Leu Lys Lys Leu Glu Thr Val Glu
 210 215 220

Val Glu Glu Glu Ser Met Arg His Val Leu Asp Ala Phe Leu Phe Cys
 225 230 235 240

P-2017-14468 LISTADO DE SECUENCIAS.txt

Cys Tyr Thr Gly Leu Arg Tyr Ser Asp Phe Cys Gln Leu Thr Pro Glu
245 250 255

Asn Phe Ile Arg Ile Asn Gly Lys Arg Trp Leu Tyr Phe Lys Ser Val
260 265 270

Lys Thr Gly Val Glu Ile Arg Leu Pro Leu His Leu Leu Phe Glu Ser
275 280 285

Arg Ala Leu Gly Ile Leu Asp Arg Tyr Pro Asp Ile Gly Ser Phe Ala
290 295 300

Ala Leu Pro Cys Asn Ser Glu Val Asn Lys Gln Leu Arg Lys Leu Ala
305 310 315 320

Gly Leu Cys Gly Ile Lys Lys Arg Ile Thr Tyr His Val Ser Arg His
325 330 335

Thr Cys Ala Thr Leu Leu Ile His Gln Gly Val Ala Ile Thr Thr Val
340 345 350

Gln Lys Leu Leu Gly His Thr Ser Val Lys Thr Thr Gln Ile Tyr Ser
355 360 365

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

Gly Lys Arg Lys Val Lys Met Phe Pro Asp Lys Gly Leu Arg Thr Ser
385 390 395 400

Asp Phe Ile Asp Asn Arg
405

<210> 19
<211> 459
<212> PRT
<213> Homo sapiens

<400> 19
Met Val Val Gln His Asn Leu Arg Ala Met Asn Ser Asn Arg Met Leu
1 5 10 15

Gly Ile Thr Gln Gly Ser Leu Asn Lys Ser Thr Glu Lys Leu Ser Ser
20 25 30

Gly Tyr Lys Val Asn Arg Ala Ala Asp Asp Ala Ala Gly Leu Ser Ile
35 40 45

Ser Glu Lys Met Arg Lys Gln Ile Arg Gly Leu Ser Gln Ala Ser Leu
50 55 60

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

P-2017-14468 LISTADO DE SECUENCIAS.txt

Thr Glu Val His Asp Met Leu Gln Arg Met Asn Glu Leu Ala Val Lys
85 90 95

Ala Ala Asn Gly Thr Asn Ser Thr Ser Asp Arg Gln Thr Ile Gln Asp
100 105 110

Glu Val Asp Gln Leu Leu Thr Glu Ile Asp Arg Val Ala Glu Thr Thr
115 120 125

Lys Phe Asn Glu Leu Tyr Thr Leu Lys Gly Asp Glu Asp Lys Val Thr
130 135 140

Arg Tyr Leu Ser Ala His Asp Ala Gly Ile Glu Gly Thr Leu Thr Gln
145 150 155 160

Gly Ala Thr Asn Ala Thr Phe Ser Met Asp Gln Leu Lys Phe Gly Asp
165 170 175

Thr Ile Met Ile Ala Gly Arg Glu Tyr His Ile Ser Gly Thr Lys Ala
180 185 190

Glu Gln Ala Ala Ile Ile Thr Ala Ser Val Lys Ile Gly Gln Gln Val
195 200 205

Thr Ile Asp Gly Ile Met Tyr Thr Cys Ser Ser Val Ser Asn Ala Asp
210 215 220

Lys Phe Glu Leu Lys Ser Glu Asp Leu Ile Ala Lys Leu Asp Thr Ser
225 230 235 240

Ser Leu Ser Ile Met Ser Val Asn Gly Lys Thr Tyr Tyr Gly Ala Gly
245 250 255

Ile Thr Asp Asp Arg Thr Val Val Ser Ser Ile Gly Ala Tyr Lys Leu
260 265 270

Ile Gln Lys Glu Leu Gly Leu Ala Ser Ser Ile Gly Ala Asp Gly Ala
275 280 285

Thr Gln Ala Ser Val Asn Ala Gly Val Asp Gly Lys Thr Leu Met Lys
290 295 300

Pro Ser Phe Glu Gly Lys Trp Val Phe Ser Ile Asp Lys Gly Ser Val
305 310 315 320

Gln Val Arg Glu Asp Ile Asp Phe Ser Leu His Val Gly Ala Asp Ala
325 330 335

Asp Met Asn Asn Lys Ile Ala Val Lys Ile Gly Ala Leu Asp Thr Lys
340 345 350

P-2017-14468 LISTADO DE SECUENCIAS.txt

Gly Leu Gly Ile Gln Gly Leu Asn Val Lys Asp Thr Thr Gly Ala Ala
355 360 365

Ala Thr Tyr Ala Ile Asp Ser Ile Ala Asp Ala Val Ala Arg Ile Ser
370 375 380

Ala Gln Arg Ser Leu Leu Gly Ala Val Gln Asn Arg Leu Glu His Thr
385 390 395 400

Ile Asn Asn Leu Asp Asn Val Val Glu Asn Thr Thr Ala Ala Glu Ser
405 410 415

Gln Ile Arg Asp Thr Asp Met Ala Thr Glu Met Val Lys Tyr Ser Asn
420 425 430

Asn Asn Val Leu Ala Gln Ala Gly Gln Ser Met Leu Ala Gln Ser Asn
435 440 445

Gln Ala Asn Gln Gly Val Leu Gln Leu Leu Gln
450 455

<210> 20
<211> 460
<212> PRT
<213> Homo sapiens

<400> 20
Met Val Val Gln His Asn Leu Arg Ala Met Asn Ser Asn Arg Met Leu
1 5 10 15

Gly Ile Thr Gln Gly Ser Leu Asn Lys Ser Thr Glu Lys Leu Ser Ser
20 25 30

Gly Tyr Lys Val Asn Arg Ala Ala Asp Asp Ala Ala Gly Leu Ser Ile
35 40 45

Ser Glu Lys Met Arg Lys Gln Ile Arg Gly Leu Ser Gln Ala Ser Leu
50 55 60

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

Thr Glu Val His Asp Met Leu Gln Arg Met Asn Glu Leu Ala Val Lys
85 90 95

Ala Ala Asn Gly Thr Asn Ser Thr Ser Asp Arg Gln Thr Ile Gln Asp
100 105 110

Glu Val Asp Gln Leu Leu Thr Glu Ile Asp Arg Val Ala Glu Thr Thr
115 120 125

P-2017-14468 LISTADO DE SECUENCIAS.txt

Lys Phe Asn Glu Leu Tyr Thr Leu Lys Gly Asp Glu Asp Lys Val Thr
130 135 140

Arg Tyr Leu Ser Ala His Asp Ala Gly Ile Glu Gly Thr Leu Thr Gln
145 150 155 160

Gly Ala Thr Asn Ala Thr Phe Ser Met Asp Gln Leu Lys Phe Gly Asp
165 170 175

Thr Ile Met Ile Ala Gly Arg Glu Tyr His Ile Ser Gly Thr Gln Lys
180 185 190

Gln Gln Gly Glu Ile Ile Thr Ser Ser Val Lys Ile Gly Gln Gln Val
195 200 205

Thr Ile Asp Gly Ile Met Tyr Thr Cys Thr Ala Thr Val Ser Asn Ala
210 215 220

Asp Lys Phe Glu Leu Thr Lys Asp Asp Leu Ile Ala Lys Leu Asp Thr
225 230 235 240

Ser Ser Leu Ser Ile Met Ser Val Asn Gly Lys Thr Tyr Tyr Gly Ala
245 250 255

Gly Ile Thr Asp Asp Arg Thr Val Val Ser Ser Ile Gly Ala Tyr Lys
260 265 270

Leu Ile Gln Lys Glu Leu Gly Leu Ala Ser Ser Ile Gly Ala Asp Gly
275 280 285

Ser Thr Gln Ala Ser Val Asn Ala Gly Val Asp Gly Lys Thr Leu Lys
290 295 300

Lys Pro Ser Phe Glu Gly Lys Trp Val Phe Ser Ile Asp Lys Gly Ser
305 310 315 320

Val Gln Val Arg Glu Asp Ile Asp Phe Ser Leu His Val Gly Ala Asp
325 330 335

Ala Asp Met Asn Asn Lys Ile Ala Val Lys Ile Gly Ala Leu Asp Thr
340 345 350

Lys Gly Leu Gly Ile Gln Gly Leu Asn Val Lys Asp Thr Thr Gly Ala
355 360 365

Ala Ala Thr Tyr Ala Ile Asp Ser Ile Ala Asp Ala Val Ala Arg Ile
370 375 380

Ser Ala Gln Arg Ser Leu Leu Gly Ala Val Gln Asn Arg Leu Glu His
385 390 395 400

P-2017-14468 LISTADO DE SECUENCIAS.txt

Thr Ile Asn Asn Leu Asp Asn Val Val Glu Asn Thr Thr Ala Ala Glu
405 410 415

Ser Gln Ile Arg Asp Thr Asp Met Ala Thr Glu Met Val Lys Tyr Ser
420 425 430

Asn Asn Asn Val Leu Ala Gln Ala Gly Gln Ser Met Leu Ala Gln Ser
435 440 445

Asn Gln Ala Asn Gln Gly Val Leu Ser Leu Leu Gly
450 455 460

<210> 21

<211> 218

<212> PRT

<213> Homo sapiens

<400> 21

Met Lys Leu Asn Phe Lys Gly Phe Phe Lys Ala Ala Gly Leu Phe Pro
1 5 10 15

Leu Ala Leu Met Leu Ser Gly Cys Ile Ser Tyr Ala Leu Val Ser His
20 25 30

Thr Ala Lys Gly Ser Ser Gly Lys Tyr Gln Ser Gln Ser Asp Thr Ile
35 40 45

Thr Gly Leu Ser Gln Ala Lys Asp Ser Asn Gly Thr Lys Gly Tyr Val
50 55 60

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

Ile Val Lys Met Leu Asn Asp Pro Ala Leu Asn Arg His Asn Ile Gln
85 90 95

Val Ala Asp Asp Ala Arg Phe Val Leu Asn Ala Gly Lys Lys Lys Phe
100 105 110

Thr Gly Thr Ile Ser Leu Tyr Tyr Tyr Trp Asn Asn Glu Glu Glu Lys
115 120 125

Ala Leu Ala Thr His Tyr Gly Phe Ala Cys Gly Val Gln His Cys Thr
130 135 140

Arg Ser Leu Glu Asn Leu Lys Gly Thr Ile His Glu Lys Asn Lys Asn
145 150 155 160

Met Asp Tyr Ser Lys Val Met Ala Phe Tyr His Pro Phe Lys Val Arg
165 170 175

Phe Tyr Glu Tyr Tyr Ser Pro Arg Gly Ile Pro Asp Gly Val Ser Ala
180 185 190

P-2017-14468 LISTADO DE SECUENCIAS.txt

Ala Leu Leu Pro Val Thr Val Thr Leu Asp Ile Ile Thr Ala Pro Leu
195 200 205

Gln Phe Leu Val Val Tyr Ala Val Asn Gln
210 215

<210> 22

<211> 412

<212> PRT

<213> Homo sapiens

<400> 22

Met Gly Gln Asp Gln Thr Lys Gln Gln Ile Glu Lys Gly Leu Gln Leu
1 5 10 15

Tyr Gln Ser Asn Gln Thr Glu Lys Ala Leu Gln Val Trp Thr Lys Val
20 25 30

Leu Glu Lys Ser Ser Asp Leu Met Gly Arg Phe Arg Val Leu Gly Cys
35 40 45

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

Phe Ala Val Val Gln Ile Asp Thr Ala Arg Glu Leu Glu Asp Ala Asp
65 70 75 80

Phe Leu Leu Glu Ser Tyr Leu Asn Leu Ala Arg Ser Asn Glu Lys Leu
85 90 95

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

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

Met Gly Asn Ala Phe Leu Gly Leu Ser Val Phe Gln Lys Ala Leu Glu
130 135 140

Ser Phe Glu Lys Ala Leu Arg Tyr Ala His Asn Asn Asp Asp Ala Met
145 150 155 160

Leu Glu Cys Arg Val Cys Cys Ser Leu Gly Ser Phe Tyr Ala Gln Val
165 170 175

Lys Asp Tyr Glu Lys Ala Leu Phe Phe Pro Cys Lys Ala Ala Glu Leu
180 185 190

Val Asn Asn Tyr Gly Lys Gly Trp Ser Leu Lys Tyr Arg Ala Met Ser
195 200 205

P-2017-14468 LISTADO DE SECUENCIAS.txt

Gln Tyr His Met Ala Val Ala Tyr Arg Leu Leu Gly Arg Leu Gly Ser
210 215 220

Ala Met Glu Cys Cys Glu Glu Ser Met Lys Ile Ala Leu Gln His Gly
225 230 235 240

Asp Arg Pro Leu Gln Ala Leu Cys Leu Leu Cys Phe Ala Asp Ile His
245 250 255

Arg Ser Arg Gly Asp Leu Glu Thr Ala Phe Pro Arg Tyr Asp Ser Ala
260 265 270

Met Ser Ile Met Thr Glu Ile Gly Asn Arg Leu Gly Gln Val Gln Ala
275 280 285

Leu Leu Gly Val Ala Lys Cys Trp Val Ala Arg Lys Ala Leu Asp Lys
290 295 300

Ala Leu Asp Ala Ile Glu Arg Ala Gln Asp Leu Ala Glu Glu Val Gly
305 310 315 320

Asn Lys Leu Ser Gln Leu Lys Leu His Cys Leu Ser Glu Ser Ile Tyr
325 330 335

Arg Ser Lys Gly Leu Gln Arg Glu Leu Arg Ala His Val Val Arg Phe
340 345 350

His Glu Cys Val Glu Glu Thr Glu Leu Tyr Cys Gly Leu Cys Gly Glu
355 360 365

Ser Ile Gly Glu Lys Asn Ser Arg Leu Gln Ala Leu Pro Cys Ser His
370 375 380

Ile Phe His Leu Arg Cys Leu Gln Asn Asn Gly Thr Arg Ser Cys Pro
385 390 395 400

Asn Cys Arg Arg Ser Ser Met Lys Pro Gly Phe Val
405 410

<210> 23
<211> 493
<212> PRT
<213> Homo sapiens

<400> 23
Met Ala Arg Ala Pro Leu Gly Val Leu Leu Leu Gly Leu Leu Gly
1 5 10 15

Arg Gly Val Gly Lys Asn Glu Glu Leu Arg Leu Tyr His His Leu Phe
20 25 30

Asn Asn Tyr Asp Pro Gly Ser Arg Pro Val Arg Glu Pro Glu Asp Thr
35 40 45

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

P-2017-14468 LISTADO DE SECUENCIAS.txt

Asn Cys Val Ile Val Leu Asn Val Ser Gln Arg Thr Pro Thr Thr His
325 330 335

Ala Met Ser Pro Arg Leu Arg His Val Leu Leu Glu Leu Leu Pro Arg
340 345 350

Leu Leu Gly Ser Pro Pro Pro Pro Glu Ala Pro Arg Ala Ala Ser Pro
355 360 365

Pro Arg Arg Ala Ser Ser Val Gly Leu Leu Leu Arg Ala Glu Glu Leu
370 375 380

Ile Leu Lys Lys Pro Arg Ser Glu Leu Val Phe Glu Gly Gln Arg His
385 390 395 400

Arg Gln Gly Thr Trp Thr Ala Ala Phe Cys Gln Ser Leu Gly Ala Ala
405 410 415

Ala Pro Glu Val Arg Cys Cys Val Asp Ala Val Asn Phe Val Ala Glu
420 425 430

Ser Thr Arg Asp Gln Glu Ala Thr Gly Glu Glu Val Ser Asp Trp Val
435 440 445

Arg Met Gly Asn Ala Leu Asp Asn Ile Cys Phe Trp Ala Ala Leu Val
450 455 460

Leu Phe Ser Val Gly Ser Ser Leu Ile Phe Leu Gly Ala Tyr Phe Asn
465 470 475 480

Arg Val Pro Asp Leu Pro Tyr Ala Pro Cys Ile Gln Pro
485 490

<210> 24
<211> 482
<212> PRT
<213> Homo sapiens

<400> 24
Met Glu Pro Trp Pro Leu Leu Leu Leu Phe Ser Leu Cys Ser Ala Gly
1 5 10 15

Leu Val Leu Gly Ser Glu His Glu Thr Arg Leu Val Ala Lys Leu Phe
20 25 30

Lys Asp Tyr Ser Ser Val Val Arg Pro Val Glu Asp His Arg Gln Val
35 40 45

Val Glu Val Thr Val Gly Leu Gln Leu Ile Gln Leu Ile Asn Val Asp
50 55 60

P-2017-14468 LISTADO DE SECUENCIAS.txt

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

P-2017-14468 LISTADO DE SECUENCIAS.txt

Thr Val Ile Val Ile Asn Thr His His Arg Ser Pro Ser Thr His Val
340 345 350

Met Pro Asn Trp Val Arg Lys Val Phe Ile Asp Thr Ile Pro Asn Ile
355 360 365

Met Phe Phe Ser Thr Met Lys Arg Pro Ser Arg Glu Lys Gln Asp Lys
370 375 380

Lys Ile Phe Thr Glu Asp Ile Asp Ile Ser Asp Ile Ser Gly Lys Pro
385 390 395 400

Gly Pro Pro Pro Met Gly Phe His Ser Pro Leu Ile Lys His Pro Glu
405 410 415

Val Lys Ser Ala Ile Glu Gly Ile Lys Tyr Ile Ala Glu Thr Met Lys
420 425 430

Ser Asp Gln Glu Ser Asn Asn Ala Ala Ala Glu Trp Lys Tyr Val Ala
435 440 445

Met Val Met Asp His Ile Leu Leu Gly Val Phe Met Leu Val Cys Ile
450 455 460

Ile Gly Thr Leu Ala Val Phe Ala Gly Arg Leu Ile Glu Leu Asn Gln
465 470 475 480

Gln Gly

<210> 25

<211> 517

<212> PRT

<213> Homo sapiens

<400> 25

Met His Gly Gly Gln Gly Pro Leu Leu Leu Leu Leu Leu Ala Val
1 5 10 15

Cys Leu Gly Ala Gln Gly Arg Asn Gln Glu Glu Arg Leu Leu Ala Asp
20 25 30

Leu Met Gln Asn Tyr Asp Pro Asn Leu Arg Pro Ala Glu Arg Asp Ser
35 40 45

Asp Val Val Asn Val Ser Leu Lys Leu Thr Leu Thr Asn Leu Ile Ser
50 55 60

Leu Asn Glu Arg Glu Glu Ala Leu Thr Thr Asn Val Trp Ile Glu Met
65 70 75 80

Gln Trp Cys Asp Tyr Arg Leu Arg Trp Asp Pro Arg Asp Tyr Glu Gly
85 90 95

P-2017-14468 LISTADO DE SECUENCIAS.txt

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

P-2017-14468 LISTADO DE SECUENCIAS.txt

Asp Thr Gln Ser Arg Leu Gln Asn Gly Ser Ser Gly Trp Ser Ile Thr
370 375 380

Thr Gly Glu Glu Val Ala Leu Cys Leu Pro Arg Ser Glu Leu Leu Phe
385 390 395 400

Gln Gln Trp Gln Arg Gln Gly Leu Val Ala Ala Ala Leu Glu Lys Leu
405 410 415

Glu Lys Gly Pro Glu Leu Gly Leu Ser Gln Phe Cys Gly Ser Leu Lys
420 425 430

Gln Ala Ala Pro Ala Ile Gln Ala Cys Val Glu Ala Cys Asn Leu Ile
435 440 445

Ala Cys Ala Arg His Gln Gln Ser His Phe Asp Asn Gly Asn Glu Glu
450 455 460

Trp Phe Leu Val Gly Arg Val Leu Asp Arg Val Cys Phe Leu Ala Met
465 470 475 480

Leu Ser Leu Phe Ile Cys Gly Thr Ala Gly Ile Phe Leu Met Ala His
485 490 495

Tyr Asn Arg Val Pro Ala Leu Pro Phe Pro Gly Asp Pro Arg Pro Tyr
500 505 510

Leu Pro Ser Pro Asp
515

<210> 26
<211> 501
<212> PRT
<213> Homo sapiens

<400> 26
Met Thr Pro Gly Ala Leu Leu Met Leu Leu Gly Ala Leu Gly Ala Pro
1 5 10 15

Leu Ala Pro Gly Val Arg Gly Ser Glu Ala Glu Gly Arg Leu Arg Glu
20 25 30

Lys Leu Phe Ser Gly Tyr Asp Ser Ser Val Arg Pro Ala Arg Glu Val
35 40 45

Gly Asp Arg Val Arg Val Ser Val Gly Leu Ile Leu Ala Gln Leu Ile
50 55 60

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

P-2017-14468 LISTADO DE SECUENCIAS.txt

Leu Glu Trp Thr Asp Tyr Arg Leu Ser Trp Asp Pro Ala Glu His Asp
85 90 95

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

Val Val Leu Leu Asn Asn Asn Asp Gly Asn Phe Asp Val Ala Leu Asp
115 120 125

Ile Ser Val Val Val Ser Ser Asp Gly Ser Val Arg Trp Gln Pro Pro
130 135 140

Gly Ile Tyr Arg Ser Ser Cys Ser Ile Gln Val Thr Tyr Phe Pro Phe
145 150 155 160

Asp Trp Gln Asn Cys Thr Met Val Phe Ser Ser Tyr Ser Tyr Asp Ser
165 170 175

Ser Glu Val Ser Leu Gln Thr Gly Leu Gly Pro Asp Gly Gln Gly His
180 185 190

Gln Glu Ile His Ile His Glu Gly Thr Phe Ile Glu Asn Gly Gln Trp
195 200 205

Glu Ile Ile His Lys Pro Ser Arg Leu Ile Gln Pro Pro Gly Asp Pro
210 215 220

Arg Gly Gly Arg Glu Gly Gln Arg Gln Glu Val Ile Phe Tyr Leu Ile
225 230 235 240

Ile Arg Arg Lys Pro Leu Phe Tyr Leu Val Asn Val Ile Ala Pro Cys
245 250 255

Ile Leu Ile Thr Leu Leu Ala Ile Phe Val Phe Tyr Leu Pro Pro Asp
260 265 270

Ala Gly Glu Lys Met Gly Leu Ser Ile Phe Ala Leu Leu Thr Leu Thr
275 280 285

Val Phe Leu Leu Leu Leu Ala Asp Lys Val Pro Glu Thr Ser Leu Ser
290 295 300

Val Pro Ile Ile Ile Lys Tyr Leu Met Phe Thr Met Val Leu Val Thr
305 310 315 320

Phe Ser Val Ile Leu Ser Val Val Val Leu Asn Leu His His Arg Ser
325 330 335

Pro His Thr His Gln Met Pro Leu Trp Val Arg Gln Ile Phe Ile His
340 345 350

P-2017-14468 LISTADO DE SECUENCIAS.txt

Lys Leu Pro Leu Tyr Leu Arg Leu Lys Arg Pro Lys Pro Glu Arg Asp
355 360 365

Leu Met Pro Glu Pro Pro His Cys Ser Ser Pro Gly Ser Gly Trp Gly
370 375 380

Arg Gly Thr Asp Glu Tyr Phe Ile Arg Lys Pro Pro Ser Asp Phe Leu
385 390 395 400

Phe Pro Lys Pro Asn Arg Phe Gln Pro Glu Leu Ser Ala Pro Asp Leu
405 410 415

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

Leu Arg Glu Val Val Ser Ser Ile Ser Tyr Ile Ala Arg Gln Leu Gln
435 440 445

Glu Gln Glu Asp His Asp Ala Leu Lys Glu Asp Trp Gln Phe Val Ala
450 455 460

Met Val Val Asp Arg Leu Phe Leu Trp Thr Phe Ile Ile Phe Thr Ser
465 470 475 480

Val Gly Thr Leu Val Ile Phe Leu Asp Ala Thr Tyr His Leu Pro Pro
485 490 495

Pro Asp Pro Phe Pro
500

<210> 27
<211> 517
<212> PRT
<213> Homo sapiens

<400> 27
Met Glu Gly Pro Val Leu Thr Leu Gly Leu Leu Ala Ala Leu Ala Val
1 5 10 15

Cys Gly Ser Trp Gly Leu Asn Glu Glu Glu Arg Leu Ile Arg His Leu
20 25 30

Phe Gln Glu Lys Gly Tyr Asn Lys Glu Leu Arg Pro Val Ala His Lys
35 40 45

Glu Glu Ser Val Asp Val Ala Leu Ala Leu Thr Leu Ser Asn Leu Ile
50 55 60

Ser Leu Lys Glu Val Glu Glu Thr Leu Thr Thr Asn Val Trp Ile Glu
65 70 75 80

His Gly Trp Thr Asp Asn Arg Leu Lys Trp Asn Ala Glu Glu Phe Gly
85 90 95

P-2017-14468 LISTADO DE SECUENCIAS.txt

Asn Ile Ser Val₁₀₀ Leu Arg Leu Pro₁₀₅ Pro Asp Met Val Trp₁₁₀ Leu Pro Glu
Ile Val₁₁₅ Leu Glu Asn Asn Asn₁₂₀ Asp Gly Ser Phe Gln₁₂₅ Ile Ser Tyr Ser
Cys Asn₁₃₀ Val Leu Val Tyr His₁₃₅ Tyr Gly Phe Val₁₄₀ Tyr Trp Leu Pro Pro
Ala₁₄₅ Ile Phe Arg Ser₁₅₀ Ser Cys Pro Ile Ser Val₁₅₅ Thr Tyr Phe Pro Phe₁₆₀
Asp Trp Gln Asn₁₆₅ Cys Ser Leu Lys Phe₁₇₀ Ser Ser Leu Lys Tyr Thr₁₇₅ Ala
Lys Glu Ile Thr₁₈₀ Leu Ser Leu Lys Gln₁₈₅ Asp Ala Lys Glu Asn₁₉₀ Arg Thr
Tyr Pro₁₉₅ Val Glu Trp Ile Ile₂₀₀ Ile Asp Pro Glu Gly Phe₂₀₅ Thr Glu Asn
Gly Glu₂₁₀ Trp Glu Ile Val His₂₁₅ Arg Pro Ala Arg Val₂₂₀ Asn Val Asp Pro
Arg₂₂₅ Ala Pro Leu Asp Ser₂₃₀ Pro Ser Arg Gln Asp₂₃₅ Ile Thr Phe Tyr Leu₂₄₀
Ile Ile Arg Arg₂₄₅ Lys Pro Leu Phe Tyr₂₅₀ Ile Ile Asn Ile Leu Val₂₅₅ Pro
Cys Val Leu₂₆₀ Ile Ser Phe Met Val₂₆₅ Asn Leu Val Phe Tyr Leu₂₇₀ Pro Ala
Asp Ser Gly₂₇₅ Glu Lys Thr Ser Val₂₈₀ Ala Ile Ser Val₂₈₅ Leu Leu Ala Gln
Ser Val₂₉₀ Phe Leu Leu Leu Ile₂₉₅ Ser Lys Arg Leu Pro Ala Thr Ser Met
Ala₃₀₅ Ile Pro Leu Ile Gly₃₁₀ Lys Phe Leu Leu Phe₃₁₅ Gly Met Val Leu Val₃₂₀
Thr Met Val Val₃₂₅ Ile Cys Val Ile Val₃₃₀ Leu Asn Ile His Phe₃₃₅ Arg
Thr Pro Ser Thr₃₄₀ His Val Leu Ser Glu₃₄₅ Gly Val Lys Lys Leu Phe Leu
Glu Thr₃₅₅ Leu Pro Glu Leu Leu His₃₆₀ Met Ser Arg Pro Ala₃₆₅ Glu Asp Gly

P-2017-14468 LISTADO DE SECUENCIAS.txt

Pro Ser Pro Gly Ala Leu Val Arg Arg Ser Ser Ser Leu Gly Tyr Ile
370 375 380

Ser Lys Ala Glu Glu Tyr Phe Leu Leu Lys Ser Arg Ser Asp Leu Met
385 390 395 400

Phe Glu Lys Gln Ser Glu Arg His Gly Leu Ala Arg Arg Leu Thr Thr
405 410 415

Ala Arg Arg Pro Pro Ala Ser Ser Glu Gln Ala Gln Gln Glu Leu Phe
420 425 430

Asn Glu Leu Lys Pro Ala Val Asp Gly Ala Asn Phe Ile Val Asn His
435 440 445

Met Arg Asp Gln Asn Asn Tyr Asn Glu Glu Lys Asp Ser Trp Asn Arg
450 455 460

Val Ala Arg Thr Val Asp Arg Leu Cys Leu Phe Val Val Thr Pro Val
465 470 475 480

Met Val Val Gly Thr Ala Trp Ile Phe Leu Gln Gly Val Tyr Asn Gln
485 490 495

Pro Pro Pro Gln Pro Phe Pro Gly Asp Pro Tyr Ser Tyr Asn Val Gln
500 505 510

Asp Lys Arg Phe Ile
515

<210> 28
<211> 933
<212> PRT
<213> Homo sapiens

<400> 28
Met Arg Ala Leu Ala Val Leu Ser Val Thr Leu Val Met Ala Cys Thr
1 5 10 15

Glu Ala Phe Phe Pro Phe Ile Ser Arg Gly Lys Glu Leu Leu Trp Gly
20 25 30

Lys Pro Glu Glu Ser Arg Val Ser Ser Val Leu Glu Glu Ser Lys Arg
35 40 45

Leu Val Asp Thr Ala Met Tyr Ala Thr Met Gln Arg Asn Leu Lys Lys
50 55 60

Arg Gly Ile Leu Ser Pro Ala Gln Leu Leu Ser Phe Ser Lys Leu Pro
65 70 75 80

P-2017-14468 LISTADO DE SECUENCIAS.txt

Glu Pro Thr Ser Gly Val Ile Ala Arg Ala Ala Glu Ile Met Glu Thr
85 90 95

Ser Ile Gln Ala Met Lys Arg Lys Val Asn Leu Lys Thr Gln Gln Ser
100 105 110

Gln His Pro Thr Asp Ala Leu Ser Glu Asp Leu Leu Ser Ile Ile Ala
115 120 125

Asn Met Ser Gly Cys Leu Pro Tyr Met Leu Pro Pro Lys Cys Pro Asn
130 135 140

Thr Cys Leu Ala Asn Lys Tyr Arg Pro Ile Thr Gly Ala Cys Asn Asn
145 150 155 160

Arg Asp His Pro Arg Trp Gly Ala Ser Asn Thr Ala Leu Ala Arg Trp
165 170 175

Leu Pro Pro Val Tyr Glu Asp Gly Phe Ser Gln Pro Arg Gly Trp Asn
180 185 190

Pro Gly Phe Leu Tyr Asn Gly Phe Pro Leu Pro Pro Val Arg Glu Val
195 200 205

Thr Arg His Val Ile Gln Val Ser Asn Glu Val Val Thr Asp Asp Asp
210 215 220

Arg Tyr Ser Asp Leu Leu Met Ala Trp Gly Gln Tyr Ile Asp His Asp
225 230 235 240

Ile Ala Phe Thr Pro Gln Ser Thr Ser Lys Ala Ala Phe Gly Gly Gly
245 250 255

Ala Asp Cys Gln Met Thr Cys Glu Asn Gln Asn Pro Cys Phe Pro Ile
260 265 270

Gln Leu Pro Glu Glu Ala Arg Pro Ala Ala Gly Thr Ala Cys Leu Pro
275 280 285

Phe Tyr Arg Ser Ser Ala Ala Cys Gly Thr Gly Asp Gln Gly Ala Leu
290 295 300

Phe Gly Asn Leu Ser Thr Ala Asn Pro Arg Gln Gln Met Asn Gly Leu
305 310 315 320

Thr Ser Phe Leu Asp Ala Ser Thr Val Tyr Gly Ser Ser Pro Ala Leu
325 330 335

Glu Arg Gln Leu Arg Asn Trp Thr Ser Ala Glu Gly Leu Leu Arg Val
340 345 350

P-2017-14468 LISTADO DE SECUENCIAS.txt

His Ala Arg Leu Arg Asp Ser Gly Arg Ala Tyr Leu Pro Phe Val Pro
355 360 365

Pro Arg Ala Pro Ala Ala Cys Ala Pro Glu Pro Gly Ile Pro Gly Glu
370 375 380

Thr Arg Gly Pro Cys Phe Leu Ala Gly Asp Gly Arg Ala Ser Glu Val
385 390 395 400

Pro Ser Leu Thr Ala Leu His Thr Leu Trp Leu Arg Glu His Asn Arg
405 410 415

Leu Ala Ala Ala Leu Lys Ala Leu Asn Ala His Trp Ser Ala Asp Ala
420 425 430

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

Thr Leu Arg Asp Tyr Ile Pro Arg Ile Leu Gly Pro Glu Ala Phe Gln
450 455 460

Gln Tyr Val Gly Pro Tyr Glu Gly Tyr Asp Ser Thr Ala Asn Pro Thr
465 470 475 480

Val Ser Asn Val Phe Ser Thr Ala Ala Phe Arg Phe Gly His Ala Thr
485 490 495

Ile His Pro Leu Val Arg Arg Leu Asp Ala Ser Phe Gln Glu His Pro
500 505 510

Asp Leu Pro Gly Leu Trp Leu His Gln Ala Phe Phe Ser Pro Trp Thr
515 520 525

Leu Leu Arg Gly Gly Gly Leu Asp Pro Leu Ile Arg Gly Leu Leu Ala
530 535 540

Arg Pro Ala Lys Leu Gln Val Gln Asp Gln Leu Met Asn Glu Glu Leu
545 550 555 560

Thr Glu Arg Leu Phe Val Leu Ser Asn Ser Ser Thr Leu Asp Leu Ala
565 570 575

Ser Ile Asn Leu Gln Arg Gly Arg Asp His Gly Leu Pro Gly Tyr Asn
580 585 590

Glu Trp Arg Glu Phe Cys Gly Leu Pro Arg Leu Glu Thr Pro Ala Asp
595 600 605

Leu Ser Thr Ala Ile Ala Ser Arg Ser Val Ala Asp Lys Ile Leu Asp
610 615 620

P-2017-14468 LISTADO DE SECUENCIAS.txt

Leu 625	Tyr	Lys	His	Pro	Asp 630	Asn	Ile	Asp	Val	Trp 635	Leu	Gly	Gly	Leu	Ala 640
Glu	Asn	Phe	Leu	Pro 645	Arg	Ala	Arg	Thr	Gly 650	Pro	Leu	Phe	Ala	Cys 655	Leu
Ile	Gly	Lys	Gln 660	Met	Lys	Ala	Leu	Arg 665	Asp	Gly	Asp	Trp	Phe 670	Trp	Trp
Glu	Asn	Ser 675	His	Val	Phe	Thr	Asp 680	Ala	Gln	Arg	Arg	Glu 685	Leu	Glu	Lys
His 690	Ser	Leu	Ser	Arg	Val	Ile 695	Cys	Asp	Asn	Thr	Gly 700	Leu	Thr	Arg	Val
Pro 705	Met	Asp	Ala	Phe	Gln 710	Val	Gly	Lys	Phe	Pro 715	Glu	Asp	Phe	Glu	Ser 720
Cys	Asp	Ser	Ile	Thr 725	Gly	Met	Asn	Leu	Glu 730	Ala	Trp	Arg	Glu	Thr 735	Phe
Pro	Gln	Asp	Asp 740	Lys	Cys	Gly	Phe	Pro 745	Glu	Ser	Val	Glu	Asn 750	Gly	Asp
Phe	Val	His 755	Cys	Glu	Glu	Ser	Gly 760	Arg	Arg	Val	Leu	Val 765	Tyr	Ser	Cys
Arg 770	His	Gly	Tyr	Glu	Leu	Gln 775	Gly	Arg	Glu	Gln	Leu 780	Thr	Cys	Thr	Gln
Glu 785	Gly	Trp	Asp	Phe	Gln 790	Pro	Pro	Leu	Cys	Lys 795	Asp	Val	Asn	Glu	Cys 800
Ala	Asp	Gly	Ala	His 805	Pro	Pro	Cys	His	Ala 810	Ser	Ala	Arg	Cys	Arg 815	Asn
Thr	Lys	Gly	Gly 820	Phe	Gln	Cys	Leu	Cys 825	Ala	Asp	Pro	Tyr	Glu 830	Leu	Gly
Asp	Asp	Gly 835	Arg	Thr	Cys	Val	Asp 840	Ser	Gly	Arg	Leu	Pro 845	Arg	Val	Thr
Trp 850	Ile	Ser	Met	Ser	Leu	Ala 855	Ala	Leu	Leu	Ile	Gly 860	Gly	Phe	Ala	Gly
Leu 865	Thr	Ser	Thr	Val	Ile 870	Cys	Arg	Trp	Thr	Arg 875	Thr	Gly	Thr	Lys	Ser 880
Thr	Leu	Pro	Ile	Ser 885	Glu	Thr	Gly	Gly	Gly 890	Thr	Pro	Glu	Leu	Arg 895	Cys

P-2017-14468 LISTADO DE SECUENCIAS.txt

Gly Lys His Gln Ala Val Gly Thr Ser Pro Gln Arg Ala Ala Ala Gln
900 905 910

Asp Ser Glu Gln Glu Ser Ala Gly Met Glu Gly Arg Asp Thr His Arg
915 920 925

Leu Pro Arg Ala Leu
930

<210> 29
<211> 764
<212> PRT
<213> Homo sapiens

<400> 29
Met Arg Pro Ala Asp Leu Leu Gln Leu Val Leu Leu Leu Asp Leu Pro
1 5 10 15

Arg Asp Leu Gly Gly Met Gly Cys Ser Ser Pro Pro Cys Glu Cys His
20 25 30

Gln Glu Glu Asp Phe Arg Val Thr Cys Lys Asp Ile Gln Arg Ile Pro
35 40 45

Ser Leu Pro Pro Ser Thr Gln Thr Leu Lys Leu Ile Glu Thr His Leu
50 55 60

Arg Thr Ile Pro Ser His Ala Phe Ser Asn Leu Pro Asn Ile Ser Arg
65 70 75 80

Ile Tyr Val Ser Ile Asp Val Thr Leu Gln Gln Leu Glu Ser His Ser
85 90 95

Phe Tyr Asn Leu Ser Lys Val Thr His Ile Glu Ile Arg Asn Thr Arg
100 105 110

Asn Leu Thr Tyr Ile Asp Pro Asp Ala Leu Lys Glu Leu Pro Leu Leu
115 120 125

Lys Phe Leu Gly Ile Phe Asn Thr Gly Leu Lys Met Phe Pro Asp Leu
130 135 140

Thr Lys Val Tyr Ser Thr Asp Ile Phe Phe Ile Leu Glu Ile Thr Asp
145 150 155 160

Asn Pro Tyr Met Thr Ser Ile Pro Val Asn Ala Phe Gln Gly Leu Cys
165 170 175

Asn Glu Thr Leu Thr Leu Lys Leu Tyr Asn Asn Gly Phe Thr Ser Val
180 185 190

Gln Gly Tyr Ala Phe Asn Gly Thr Lys Leu Asp Ala Val Tyr Leu Asn
195 200 205

P-2017-14468 LISTADO DE SECUENCIAS.txt

Lys Asn Lys Tyr Leu Thr Val Ile Asp Lys Asp Ala Phe Gly Gly Val
 210 215 220
 Tyr Ser Gly Pro Ser Leu Leu Asp Val Ser Gln Thr Ser Val Thr Ala
 225 230 235 240
 Leu Pro Ser Lys Gly Leu Glu His Leu Lys Glu Leu Ile Ala Arg Asn
 245 250 255
 Thr Trp Thr Leu Lys Lys Leu Pro Leu Ser Leu Ser Phe Leu His Leu
 260 265 270
 Thr Arg Ala Asp Leu Ser Tyr Pro Ser His Cys Cys Ala Phe Lys Asn
 275 280 285
 Gln Lys Lys Ile Arg Gly Ile Leu Glu Ser Leu Met Cys Asn Glu Ser
 290 295 300
 Ser Met Gln Ser Leu Arg Gln Arg Lys Ser Val Asn Ala Leu Asn Ser
 305 310 315 320
 Pro Leu His Gln Glu Tyr Glu Glu Asn Leu Gly Asp Ser Ile Val Gly
 325 330 335
 Tyr Lys Glu Lys Ser Lys Phe Gln Asp Thr His Asn Asn Ala His Tyr
 340 345 350
 Tyr Val Phe Phe Glu Glu Gln Glu Asp Glu Ile Ile Gly Phe Gly Gln
 355 360 365
 Glu Leu Lys Asn Pro Gln Glu Glu Thr Leu Gln Ala Phe Asp Ser His
 370 375 380
 Tyr Asp Tyr Thr Ile Cys Gly Asp Ser Glu Asp Met Val Cys Thr Pro
 385 390 395 400
 Lys Ser Asp Glu Phe Asn Pro Cys Glu Asp Ile Met Gly Tyr Lys Phe
 405 410 415
 Leu Arg Ile Val Val Trp Phe Val Ser Leu Leu Ala Leu Leu Gly Asn
 420 425 430
 Val Phe Val Leu Leu Ile Leu Leu Thr Ser His Tyr Lys Leu Asn Val
 435 440 445
 Pro Arg Phe Leu Met Cys Asn Leu Ala Phe Ala Asp Phe Cys Met Gly
 450 455 460
 Met Tyr Leu Leu Leu Ile Ala Ser Val Asp Leu Tyr Thr His Ser Glu
 465 470 475 480

P-2017-14468 LISTADO DE SECUENCIAS.txt

Tyr Tyr Asn His Ala Ile Asp Trp Gln Thr Gly Pro Gly Cys Asn Thr
 485 490 495
 Ala Gly Phe Phe Thr Val Phe Ala Ser Glu Leu Ser Val Tyr Thr Leu
 500 505 510
 Thr Val Ile Thr Leu Glu Arg Trp Tyr Ala Ile Thr Phe Ala Met Arg
 515 520 525
 Leu Asp Arg Lys Ile Arg Leu Arg His Ala Cys Ala Ile Met Val Gly
 530 535 540
 Gly Trp Val Cys Cys Phe Leu Leu Ala Leu Leu Pro Leu Val Gly Ile
 545 550 555 560
 Ser Ser Tyr Ala Lys Val Ser Ile Cys Leu Pro Met Asp Thr Glu Thr
 565 570 575
 Pro Leu Ala Leu Ala Tyr Ile Val Phe Val Leu Thr Leu Asn Ile Val
 580 585 590
 Ala Phe Val Ile Val Cys Cys Cys Tyr Val Lys Ile Tyr Ile Thr Val
 595 600 605
 Arg Asn Pro Gln Tyr Asn Pro Gly Asp Lys Asp Thr Lys Ile Ala Lys
 610 615 620
 Arg Met Ala Val Leu Ile Phe Thr Asp Phe Ile Cys Met Ala Pro Ile
 625 630 635 640
 Ser Phe Tyr Ala Leu Ser Ala Ile Leu Asn Lys Pro Leu Ile Thr Val
 645 650 655
 Ser Asn Ser Lys Ile Leu Leu Val Leu Phe Tyr Pro Leu Asn Ser Cys
 660 665 670
 Ala Asn Pro Phe Leu Tyr Ala Ile Phe Thr Lys Ala Phe Gln Arg Asp
 675 680 685
 Val Phe Ile Leu Leu Ser Lys Phe Gly Ile Cys Lys Arg Gln Ala Gln
 690 695 700
 Ala Tyr Arg Gly Gln Arg Val Pro Pro Lys Asn Ser Thr Asp Ile Gln
 705 710 715 720
 Val Gln Lys Val Thr His Asp Met Arg Gln Gly Leu His Asn Met Glu
 725 730 735
 Asp Val Tyr Glu Leu Ile Glu Asn Ser His Leu Thr Pro Lys Lys Gln
 740 745 750

P-2017-14468 LISTADO DE SECUENCIAS.txt

Gly Gln Ile Ser Glu Glu Tyr Met Gln Thr Val Leu
755 760

<210> 30
<211> 770
<212> PRT
<213> Homo sapiens

<400> 30
Pro Arg Val Pro Trp Lys Met Arg Pro Ala Asp Leu Leu Gln Leu Val
1 5 10 15

Leu Leu Leu Asp Leu Pro Arg Asp Leu Gly Gly Met Gly Cys Ser Ser
20 25 30

Pro Pro Cys Glu Cys His Gln Glu Glu Asp Phe Arg Val Thr Cys Lys
35 40 45

Asp Ile Gln Arg Ile Pro Ser Leu Pro Pro Ser Thr Gln Thr Leu Lys
50 55 60

Leu Ile Glu Thr His Leu Arg Thr Ile Pro Ser His Ala Phe Ser Asn
65 70 75 80

Leu Pro Asn Ile Ser Arg Ile Tyr Val Ser Ile Asp Val Thr Leu Gln
85 90 95

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

Glu Ile Arg Asn Thr Arg Asn Leu Thr Tyr Ile Asp Pro Asp Ala Leu
115 120 125

Lys Glu Leu Pro Leu Leu Lys Phe Leu Gly Ile Phe Asn Thr Gly Leu
130 135 140

Lys Met Phe Pro Asp Leu Thr Lys Val Tyr Ser Thr Asp Ile Phe Phe
145 150 155 160

Ile Leu Glu Ile Thr Asp Asn Pro Tyr Met Thr Ser Ile Pro Val Asn
165 170 175

Ala Phe Gln Gly Leu Cys Asn Glu Thr Leu Thr Leu Lys Leu Tyr Asn
180 185 190

Asn Gly Phe Thr Ser Val Gln Gly Tyr Ala Phe Asn Gly Thr Lys Leu
195 200 205

Asp Ala Val Tyr Leu Asn Lys Asn Lys Tyr Leu Thr Val Ile Asp Lys
210 215 220

P-2017-14468 LISTADO DE SECUENCIAS.txt

Asp Ala Phe Gly Gly Val Tyr Ser Gly Pro Ser Leu Leu Asp Val Ser
 225 230 235 240
 Gln Thr Ser Val Thr Ala Leu Pro Ser Lys Gly Leu Glu His Leu Lys
 245 250 255
 Glu Leu Ile Ala Arg Asn Thr Trp Thr Leu Lys Lys Leu Pro Leu Ser
 260 265 270
 Leu Ser Phe Leu His Leu Thr Arg Ala Asp Leu Ser Tyr Pro Ser His
 275 280 285
 Cys Cys Ala Phe Lys Asn Gln Lys Lys Ile Arg Gly Ile Leu Glu Ser
 290 295 300
 Leu Met Cys Asn Glu Ser Ser Met Gln Ser Leu Arg Gln Arg Lys Ser
 305 310 315 320
 Val Asn Ala Leu Asn Ser Pro Leu His Gln Glu Tyr Glu Glu Asn Leu
 325 330 335
 Gly Asp Ser Ile Val Gly Tyr Lys Glu Lys Ser Lys Phe Gln Asp Thr
 340 345 350
 His Asn Asn Ala His Tyr Tyr Val Phe Phe Glu Glu Gln Glu Asp Glu
 355 360 365
 Ile Ile Gly Phe Gly Gln Glu Leu Lys Asn Pro Gln Glu Glu Thr Leu
 370 375 380
 Gln Ala Phe Asp Ser His Tyr Asp Tyr Thr Ile Cys Gly Asp Ser Glu
 385 390 395 400
 Asp Met Val Cys Thr Pro Lys Ser Asp Glu Phe Asn Pro Cys Glu Asp
 405 410 415
 Ile Met Gly Tyr Lys Phe Leu Arg Ile Val Val Trp Phe Val Ser Leu
 420 425 430
 Leu Ala Leu Leu Gly Asn Val Phe Val Leu Leu Ile Leu Leu Thr Ser
 435 440 445
 His Tyr Lys Leu Asn Val Pro Arg Phe Leu Met Cys Asn Leu Ala Phe
 450 455 460
 Ala Asp Phe Cys Met Gly Met Tyr Leu Leu Leu Ile Ala Ser Val Asp
 465 470 475 480
 Leu Tyr Thr His Ser Glu Tyr Tyr Asn His Ala Ile Asp Trp Gln Thr
 485 490 495

P-2017-14468 LISTADO DE SECUENCIAS.txt

Gly Pro Gly Cys Asn Thr Ala Gly Phe Phe Thr Val Phe Ala Ser Glu
500 505 510

Leu Ser Val Tyr Thr Leu Thr Val Ile Thr Leu Glu Arg Trp Tyr Ala
515 520 525

Ile Thr Phe Ala Met Arg Leu Asp Arg Lys Ile Arg Leu Arg His Ala
530 535 540

Cys Ala Ile Met Val Gly Gly Trp Val Cys Cys Phe Leu Leu Ala Leu
545 550 555 560

Leu Pro Leu Val Gly Ile Ser Ser Tyr Ala Lys Val Ser Ile Cys Leu
565 570 575

Pro Met Asp Thr Glu Thr Pro Leu Ala Leu Ala Tyr Ile Val Phe Val
580 585 590

Leu Thr Leu Asn Ile Val Ala Phe Val Ile Val Cys Cys Cys Tyr Val
595 600 605

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

Asp Thr Lys Ile Ala Lys Arg Met Ala Val Leu Ile Phe Thr Asp Phe
625 630 635 640

Ile Cys Met Ala Pro Ile Ser Phe Tyr Ala Leu Ser Ala Ile Leu Asn
645 650 655

Lys Pro Leu Ile Thr Val Ser Asn Ser Lys Ile Leu Leu Val Leu Phe
660 665 670

Tyr Pro Leu Asn Ser Cys Ala Asn Pro Phe Leu Tyr Ala Ile Phe Thr
675 680 685

Lys Ala Phe Gln Arg Asp Val Phe Ile Leu Leu Ser Lys Phe Gly Ile
690 695 700

Cys Lys Arg Gln Ala Gln Ala Tyr Arg Gly Gln Arg Val Pro Pro Lys
705 710 715 720

Asn Ser Thr Asp Ile Gln Val Gln Lys Val Thr His Asp Met Arg Gln
725 730 735

Gly Leu His Asn Met Glu Asp Val Tyr Glu Leu Ile Glu Asn Ser His
740 745 750

Leu Thr Pro Lys Lys Gln Gly Gln Ile Ser Glu Glu Tyr Met Gln Thr
755 760 765

P-2017-14468 LISTADO DE SECUENCIAS.txt

Val Leu
770

<210> 31
<211> 411
<212> PRT
<213> Homo sapiens

<400> 31
Met Arg Pro Ala Asp Leu Leu Gln Leu Val Leu Leu Leu Asp Leu Pro
1 5 10 15

Arg Asp Leu Gly Gly Met Gly Cys Ser Ser Pro Pro Cys Glu Cys His
20 25 30

Gln Glu Glu Asp Phe Arg Val Thr Cys Lys Asp Ile Gln Arg Ile Pro
35 40 45

Ser Leu Pro Pro Ser Thr Gln Thr Leu Lys Leu Ile Glu Thr His Leu
50 55 60

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

Phe Val Leu Leu Ile Leu Leu Thr Ser His Tyr Lys Leu Asn Val Pro
85 90 95

Arg Phe Leu Met Cys Asn Leu Ala Phe Ala Asp Phe Cys Met Gly Met
100 105 110

Tyr Leu Leu Leu Ile Ala Ser Val Asp Leu Tyr Thr His Ser Glu Tyr
115 120 125

Tyr Asn His Ala Ile Asp Trp Gln Thr Gly Pro Gly Cys Asn Thr Ala
130 135 140

Gly Phe Phe Thr Val Phe Ala Ser Glu Leu Ser Val Tyr Thr Leu Thr
145 150 155 160

Val Ile Thr Leu Glu Arg Trp Tyr Ala Ile Thr Phe Ala Met Arg Leu
165 170 175

Asp Arg Lys Ile Arg Leu Arg His Ala Cys Ala Ile Met Val Gly Gly
180 185 190

Trp Val Cys Cys Phe Leu Leu Ala Leu Leu Pro Leu Val Gly Ile Ser
195 200 205

Ser Tyr Ala Lys Val Ser Ile Cys Leu Pro Met Asp Thr Glu Thr Pro
210 215 220

Leu Ala Leu Ala Tyr Ile Val Phe Val Leu Thr Leu Asn Ile Val Ala
225 230 235 240

P-2017-14468 LISTADO DE SECUENCIAS.txt

Phe Val Ile Val Cys Cys Cys Tyr Val Lys Ile Tyr Ile Thr Val Arg
245 250 255

Asn Pro Gln Tyr Asn Pro Gly Asp Lys Asp Thr Lys Ile Ala Lys Arg
260 265 270

Met Ala Val Leu Ile Phe Thr Asp Phe Ile Cys Met Ala Pro Ile Ser
275 280 285

Phe Tyr Ala Leu Ser Ala Ile Leu Asn Lys Pro Leu Ile Thr Val Ser
290 295 300

Asn Ser Lys Ile Leu Leu Val Leu Phe Tyr Pro Leu Asn Ser Cys Ala
305 310 315 320

Asn Pro Phe Leu Tyr Ala Ile Phe Thr Lys Ala Phe Gln Arg Asp Val
325 330 335

Phe Ile Leu Leu Ser Lys Phe Gly Ile Cys Lys Arg Gln Ala Gln Ala
340 345 350

Tyr Arg Gly Gln Arg Val Pro Pro Lys Asn Ser Thr Asp Ile Gln Val
355 360 365

Gln Lys Val Thr His Glu Met Arg Gln Gly Leu His Asn Met Glu Asp
370 375 380

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

Gln Ile Ser Glu Glu Tyr Met Gln Thr Val Leu
405 410

<210> 32
<211> 345
<212> PRT
<213> Homo sapiens

<400> 32
Met Ile Ser Pro Val Leu Ile Leu Phe Ser Ser Phe Leu Cys His Val
1 5 10 15

Ala Ile Ala Gly Arg Thr Cys Pro Lys Pro Asp Asp Leu Pro Phe Ser
20 25 30

Thr Val Val Pro Leu Lys Thr Phe Tyr Glu Pro Gly Glu Glu Ile Thr
35 40 45

Tyr Ser Cys Lys Pro Gly Tyr Val Ser Arg Gly Gly Met Arg Lys Phe
50 55 60

P-2017-14468 LISTADO DE SECUENCIAS.txt

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

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Thr Asp Ala Ser Asp Val Lys Pro Cys
340 345

<210> 33
<211> 102
<212> PRT
<213> Homo sapiens

<400> 33
Ser Gly Arg Gly Lys Gly Gly Lys Gly Leu Gly Lys Gly Gly Ala Lys
1 5 10 15

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

Ala Ile Arg Arg Leu Ala Arg Arg Gly Gly Val Lys Arg Ile Ser Gly
35 40 45

Leu Ile Tyr Glu Glu Thr Arg Gly Val Leu Lys Val Phe Leu Glu Asn
50 55 60

Val Ile Arg Asp Ala Val Thr Tyr Thr Glu His Ala Lys Arg Lys Thr
65 70 75 80

Val Thr Ala Met Asp Val Val Tyr Ala Leu Lys Arg Gln Gly Arg Thr
85 90 95

Leu Tyr Gly Phe Gly Gly
100

<210> 34
<211> 125
<212> PRT
<213> Homo sapiens

<400> 34
Pro Glu Pro Ala Lys Ser Ala Pro Ala Pro Lys Lys Gly Ser Lys Lys
1 5 10 15

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

Arg Lys Glu Ser Tyr Ser Val Tyr Val Tyr Lys Val Leu Lys Gln Val
35 40 45

His Pro Asp Thr Gly Ile Ser Ser Lys Ala Met Gly Ile Met Asn Ser
50 55 60

Phe Val Asn Asp Ile Phe Glu Arg Ile Ala Ser Glu Ala Ser Arg Leu
65 70 75 80

Ala His Tyr Asn Lys Arg Ser Thr Ile Thr Ser Arg Glu Ile Gln Thr
85 90 95

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Ala Val Arg Leu Leu Leu Pro Gly Glu Leu Ala Lys His Ala Val Ser
100 105 110

Glu Gly Thr Lys Ala Val Thr Lys Tyr Thr Ser Ser Lys
115 120 125

<210> 35
<211> 194
<212> PRT
<213> Homo sapiens

<400> 35
Met Thr Glu Asn Ser Thr Ser Ala Pro Ala Ala Lys Pro Lys Arg Ala
1 5 10 15

Lys Ala Ser Lys Lys Ser Thr Asp His Pro Lys Tyr Ser Asp Met Ile
20 25 30

Val Ala Ala Ile Gln Ala Glu Lys Asn Arg Ala Gly Ser Ser Arg Gln
35 40 45

Ser Ile Gln Lys Tyr Ile Lys Ser His Tyr Lys Val Gly Glu Asn Ala
50 55 60

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

Leu Lys Gln Thr Lys Gly Val Gly Ala Ser Gly Ser Phe Arg Leu Ala
85 90 95

Lys Gly Asp Glu Pro Lys Arg Ser Val Ala Phe Lys Lys Thr Lys Lys
100 105 110

Glu Val Lys Lys Val Ala Thr Pro Lys Lys Ala Ala Lys Pro Lys Lys
115 120 125

Ala Ala Ser Lys Ala Pro Ser Lys Lys Pro Lys Ala Thr Pro Val Lys
130 135 140

Lys Ala Lys Lys Lys Pro Ala Ala Thr Pro Lys Lys Ala Lys Lys Pro
145 150 155 160

Lys Val Val Lys Val Lys Pro Val Lys Ala Ser Lys Pro Lys Lys Ala
165 170 175

Lys Thr Val Lys Pro Lys Ala Lys Ser Ser Ala Lys Arg Ala Ser Lys
180 185 190

Lys Lys

<210> 36
<211> 4505

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<212> PRT

<213> Homo sapiens

<400> 36

Met Gly Pro Arg Lys Pro Ala Leu Arg Thr Pro Leu Leu Leu Leu Phe
1 5 10 15

Leu Leu Leu Phe Leu Asp Thr Ser Val Trp Ala Gln Asp Glu Val Leu
20 25 30

Glu Asn Leu Ser Phe Ser Cys Pro Lys Asp Ala Thr Arg Phe Lys His
35 40 45

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

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

Glu Leu Glu Val Pro Gln Ile Cys Gly Phe Ile Met Arg Thr Asn Gln
85 90 95

Cys Thr Leu Lys Glu Val Tyr Gly Phe Asn Pro Glu Gly Lys Ala Leu
100 105 110

Met Lys Lys Thr Lys Asn Ser Glu Glu Phe Ala Ala Ala Met Ser Arg
115 120 125

Tyr Glu Leu Lys Leu Ala Ile Pro Glu Gly Lys Gln Ile Val Leu Tyr
130 135 140

Pro Asp Lys Asp Glu Pro Lys Tyr Ile Leu Asn Ile Lys Arg Gly Ile
145 150 155 160

Ile Ser Ala Leu Leu Val Pro Pro Glu Thr Glu Glu Asp Gln Gln Glu
165 170 175

Leu Phe Leu Asp Thr Val Tyr Gly Asn Cys Ser Thr Gln Val Thr Val
180 185 190

Asn Ser Arg Lys Gly Thr Val Pro Thr Glu Met Ser Thr Glu Arg Asn
195 200 205

Leu Gln Gln Cys Asp Gly Phe Gln Pro Ile Ser Thr Ser Val Ser Pro
210 215 220

Leu Ala Leu Ile Lys Gly Leu Val His Pro Leu Ser Thr Leu Ile Ser
225 230 235 240

Ser Ser Gln Thr Cys Gln Tyr Thr Leu Asp Pro Lys Arg Lys His Val
245 250 255

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Ser Glu Ala Val Cys Asp Glu Gln His Leu Phe Leu Pro Phe Ser Tyr
260 265 270

Lys Asn Lys Tyr Gly Ile Met Thr Arg Val Thr Gln Lys Leu Ser Leu
275 280 285

Glu Asp Thr Pro Lys Ile Asn Ser Arg Phe Phe Ser Glu Gly Thr Asn
290 295 300

Arg Met Gly Leu Ala Phe Glu Ser Thr Lys Ser Thr Ser Ser Pro Lys
305 310 315 320

Gln Ala Asp Ala Val Leu Lys Thr Leu Gln Glu Leu Lys Lys Leu Ser
325 330 335

Ile Ser Glu Gln Asn Ala Gln Arg Ala Asn Leu Phe Asn Lys Leu Val
340 345 350

Thr Glu Leu Arg Gly Leu Thr Gly Glu Ala Ile Thr Ser Leu Leu Pro
355 360 365

Gln Leu Ile Glu Val Ser Ser Pro Ile Thr Leu Gln Ala Leu Val Gln
370 375 380

Cys Gly Gln Pro Gln Cys Tyr Thr His Ile Leu Gln Trp Leu Lys Thr
385 390 395 400

Glu Lys Ala His Pro Leu Leu Val Asp Ile Val Thr Tyr Leu Met Ala
405 410 415

Leu Ile Pro Asn Pro Ser Thr Gln Arg Leu Gln Glu Ile Phe Asn Thr
420 425 430

Ala Lys Glu Gln Gln Ser Arg Ala Thr Leu Tyr Ala Leu Ser His Ala
435 440 445

Val Asn Ser Tyr Phe Asp Val Asp His Ser Arg Ser Pro Val Leu Gln
450 455 460

Asp Ile Ala Gly Tyr Leu Leu Lys Gln Ile Asp Asn Glu Cys Thr Gly
465 470 475 480

Asn Glu Asp His Thr Phe Leu Ile Leu Arg Val Ile Gly Asn Met Gly
485 490 495

Arg Thr Met Glu Gln Val Met Pro Ala Leu Lys Ser Ser Val Leu Ser
500 505 510

Cys Val Arg Ser Thr Lys Pro Ser Leu Leu Ile Gln Lys Ala Ala Leu
515 520 525

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Gln Ala Leu Arg Lys Met Glu Leu Glu Asp Glu Val Arg Thr Ile Leu
530 535 540

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

Ala Tyr Leu Leu Leu Met Lys Asn Pro Ser Ser Ser Asp Ile Asn Lys
565 570 575

Ile Ala Gln Leu Leu Gln Trp Glu Gln Ser Glu Gln Val Lys Asn Phe
580 585 590

Val Ala Ser His Ile Ala Asn Ile Leu Asn Ser Glu Glu Leu Tyr Val
595 600 605

Gln Asp Leu Lys Val Leu Ile Lys Asn Ala Leu Glu Asn Ser Gln Phe
610 615 620

Pro Thr Ile Met Asp Phe Arg Lys Phe Ser Arg Asn Tyr Gln Ile Ser
625 630 635 640

Lys Ser Ala Ser Leu Pro Met Phe Asp Pro Val Ser Val Lys Ile Glu
645 650 655

Gly Asn Leu Ile Phe Asp Pro Ser Ser Tyr Leu Pro Arg Glu Ser Leu
660 665 670

Leu Lys Thr Thr Leu Thr Val Phe Gly Leu Ala Ser Leu Asp Leu Phe
675 680 685

Glu Ile Gly Leu Glu Gly Lys Gly Phe Glu Pro Thr Leu Glu Ala Leu
690 695 700

Phe Gly Lys Gln Gly Phe Phe Pro Asp Ser Val Asn Lys Ala Leu Tyr
705 710 715 720

Trp Val Asn Gly Arg Val Pro Asp Gly Val Ser Lys Val Leu Val Asp
725 730 735

His Phe Gly Tyr Thr Thr Asp Gly Lys His Glu Gln Asp Met Val Asn
740 745 750

Gly Ile Met Pro Ile Val Asp Lys Leu Ile Lys Asp Leu Lys Ser Lys
755 760 765

Glu Ile Pro Glu Ala Arg Ala Tyr Leu Arg Ile Leu Gly Lys Glu Leu
770 775 780

Ser Phe Val Arg Leu Gln Asp Leu Gln Val Leu Gly Lys Leu Leu Leu
785 790 795 800

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Ser Gly Ala Gln Thr Leu Gln Gly Ile Pro Gln Met Val Val Gln Ala
805 810 815

Ile Arg Glu Gly Ser Lys Asn Asp Leu Phe Leu His Tyr Ile Phe Met
820 825 830

Asp Asn Ala Phe Glu Leu Pro Thr Gly Ala Gly Leu Gln Leu Gln Val
835 840 845

Ser Ser Ser Gly Val Phe Thr Pro Gly Ile Lys Ala Gly Val Arg Leu
850 855 860

Glu Leu Ala Asn Ile Gln Ala Glu Leu Val Ala Lys Pro Ser Val Ser
865 870 875 880

Leu Glu Phe Val Thr Asn Met Gly Ile Ile Ile Pro Asp Phe Ala Lys
885 890 895

Ser Ser Val Gln Met Asn Thr Asn Phe Phe His Glu Ser Gly Leu Glu
900 905 910

Ala Arg Val Ala Leu Lys Ala Gly Gln Leu Lys Val Ile Ile Pro Ser
915 920 925

Pro Lys Arg Pro Val Lys Leu Phe Ser Gly Ser Asn Thr Leu His Leu
930 935 940

Val Ser Thr Thr Lys Thr Glu Val Ile Pro Pro Leu Val Glu Asn Arg
945 950 955 960

Gln Ser Trp Ser Thr Cys Lys Pro Leu Phe Thr Gly Met Asn Tyr Cys
965 970 975

Thr Thr Gly Ala Tyr Ser Asn Ala Ser Ser Thr Glu Ser Ala Ser Tyr
980 985 990

Tyr Pro Leu Thr Gly Asp Thr Arg Tyr Glu Leu Glu Leu Arg Pro Thr
995 1000 1005

Gly Glu Val Glu Gln Tyr Ser Ala Thr Ala Thr Tyr Glu Leu Leu
1010 1015 1020

Lys Glu Asp Lys Ser Leu Val Asp Thr Leu Lys Phe Leu Val Gln
1025 1030 1035

Ala Glu Gly Val Gln Gln Ser Glu Ala Thr Val Leu Phe Lys Tyr
1040 1045 1050

Asn Arg Arg Ser Arg Thr Leu Ser Ser Glu Val Leu Ile Pro Gly
1055 1060 1065

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

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Lys	Ser	Val	Gly	Phe	His	Leu	Pro	Ser	Arg	Glu	Val	Gln	Val	Pro
1325						1330					1335			
Thr	Phe	Thr	Ile	Pro	Lys	Thr	His	Gln	Leu	Gln	Val	Pro	Leu	Leu
1340						1345					1350			
Gly	Val	Leu	Asp	Leu	Ser	Thr	Asn	Val	Tyr	Ser	Asn	Leu	Tyr	Asn
1355						1360					1365			
Trp	Ser	Ala	Ser	Tyr	Thr	Gly	Gly	Asn	Thr	Ser	Arg	Asp	His	Phe
1370						1375					1380			
Ser	Leu	Gln	Ala	Gln	Tyr	Arg	Met	Lys	Thr	Asp	Ser	Val	Val	Asp
1385						1390					1395			
Leu	Phe	Ser	Tyr	Ser	Val	Gln	Gly	Ser	Gly	Glu	Thr	Thr	Tyr	Asp
1400						1405					1410			
Ser	Lys	Asn	Thr	Phe	Thr	Leu	Ser	Cys	Asp	Gly	Ser	Leu	His	His
1415						1420					1425			
Lys	Phe	Leu	Asp	Ser	Lys	Phe	Lys	Val	Ser	His	Val	Glu	Lys	Phe
1430						1435					1440			
Gly	Asn	Ser	Pro	Val	Ser	Lys	Gly	Leu	Leu	Thr	Phe	Glu	Thr	Ser
1445						1450					1455			
Ser	Ala	Leu	Gly	Pro	Gln	Met	Ser	Ala	Thr	Val	His	Leu	Asp	Ser
1460						1465					1470			
Lys	Lys	Lys	Gln	His	Leu	Tyr	Val	Lys	Asp	Ile	Lys	Val	Asp	Gly
1475						1480					1485			
Gln	Phe	Arg	Ala	Ser	Ser	Phe	Tyr	Ala	Gln	Gly	Lys	Tyr	Gly	Leu
1490						1495					1500			
Ser	Cys	Glu	Arg	Asp	Val	Thr	Thr	Gly	Gln	Leu	Ser	Gly	Glu	Ser
1505						1510					1515			
Asn	Met	Arg	Phe	Asn	Ser	Thr	Tyr	Phe	Gln	Gly	Thr	Asn	Gln	Ile
1520						1525					1530			
Val	Gly	Met	Tyr	Gln	Asp	Gly	Ala	Leu	Ser	Ile	Thr	Ser	Thr	Ser
1535						1540					1545			
Asp	Leu	Gln	Asp	Gly	Ile	Phe	Lys	Asn	Thr	Ala	Ser	Leu	Lys	Tyr
1550						1555					1560			
Glu	Asn	Tyr	Glu	Leu	Thr	Leu	Lys	Ser	Asp	Ser	Ser	Gly	Gln	Tyr
1565						1570					1575			

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Glu	Asn	Phe	Ala	Ala	Ser	Asn	Lys	Leu	Asp	Val	Thr	Phe	Ser	Thr
1580						1585					1590			
Gln	Ser	Ala	Leu	Leu	Arg	Ser	Glu	His	Gln	Ala	Asn	Tyr	Lys	Ser
1595						1600					1605			
Leu	Arg	Leu	Val	Thr	Leu	Leu	Ser	Gly	Ser	Leu	Thr	Ser	Gln	Gly
1610						1615					1620			
Val	Glu	Leu	Asn	Ala	Asp	Ile	Leu	Gly	Thr	Asp	Lys	Ile	Asn	Thr
1625						1630					1635			
Gly	Ala	His	Lys	Ala	Thr	Leu	Lys	Ile	Ala	Arg	Asp	Gly	Leu	Ser
1640						1645					1650			
Thr	Ser	Ala	Thr	Thr	Asn	Leu	Lys	Tyr	Ser	Pro	Leu	Leu	Leu	Glu
1655						1660					1665			
Asn	Glu	Leu	Asn	Ala	Glu	Leu	Gly	Leu	Ser	Gly	Ala	Ser	Met	Lys
1670						1675					1680			
Leu	Ser	Thr	Asn	Gly	Arg	Phe	Lys	Glu	His	His	Ala	Lys	Phe	Ser
1685						1690					1695			
Leu	Asp	Gly	Arg	Ala	Ala	Leu	Thr	Glu	Val	Ser	Leu	Gly	Ser	Ile
1700						1705					1710			
Tyr	Gln	Ala	Met	Ile	Leu	Gly	Ala	Asp	Ser	Lys	Asn	Ile	Phe	Asn
1715						1720					1725			
Phe	Lys	Leu	Ser	Arg	Glu	Gly	Leu	Arg	Leu	Ser	Asn	Asp	Leu	Met
1730						1735					1740			
Gly	Ser	Tyr	Ala	Glu	Met	Lys	Leu	Asp	His	Thr	His	Ser	Leu	Asn
1745						1750					1755			
Ile	Ala	Gly	Leu	Ser	Leu	Asp	Phe	Phe	Ser	Lys	Met	Asp	Asn	Ile
1760						1765					1770			
Tyr	Ser	Gly	Asp	Lys	Phe	Tyr	Lys	Gln	Asn	Phe	Asn	Leu	Gln	Leu
1775						1780					1785			
Gln	Pro	Tyr	Ser	Phe	Ile	Thr	Thr	Leu	Ser	Asn	Asp	Leu	Arg	Tyr
1790						1795					1800			
Gly	Ala	Leu	Asp	Leu	Thr	Asn	Asn	Gly	Arg	Phe	Arg	Leu	Glu	Pro
1805						1810					1815			
Leu	Lys	Leu	Asn	Val	Gly	Gly	Asn	Phe	Lys	Gly	Thr	Tyr	Gln	Asn
1820						1825					1830			

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Asn	Glu	Leu	Lys	His	Ile	Tyr	Thr	Ile	Ser	Tyr	Thr	Asp	Leu	Val
1835						1840					1845			
Val	Ala	Ser	Tyr	Arg	Ala	Asp	Thr	Val	Ala	Lys	Val	Gln	Gly	Val
1850						1855					1860			
Glu	Phe	Ser	His	Arg	Leu	Asn	Ala	Asp	Ile	Glu	Gly	Leu	Thr	Ser
1865						1870					1875			
Ser	Val	Asp	Val	Thr	Thr	Ser	Tyr	Asn	Ser	Asp	Pro	Leu	His	Phe
1880						1885					1890			
Asn	Asn	Val	Phe	His	Phe	Ser	Leu	Ala	Pro	Phe	Thr	Leu	Gly	Ile
1895						1900					1905			
Asp	Thr	His	Thr	Ser	Gly	Asp	Gly	Lys	Leu	Ser	Phe	Trp	Gly	Glu
1910						1915					1920			
His	Thr	Gly	Gln	Leu	Tyr	Ser	Lys	Phe	Leu	Leu	Lys	Ala	Glu	Pro
1925						1930					1935			
Leu	Ala	Leu	Ile	Val	Ser	His	Asp	Tyr	Lys	Gly	Ser	Thr	Ser	His
1940						1945					1950			
Ser	Leu	Pro	Tyr	Glu	Ser	Ser	Ile	Ser	Thr	Ala	Leu	Glu	His	Thr
1955						1960					1965			
Val	Ser	Ala	Leu	Leu	Thr	Pro	Ala	Glu	Gln	Thr	Ser	Thr	Trp	Lys
1970						1975					1980			
Phe	Lys	Thr	Lys	Leu	Asn	Asp	Lys	Val	Tyr	Ser	Gln	Asp	Phe	Glu
1985						1990					1995			
Ala	Tyr	Asn	Thr	Lys	Asp	Lys	Ile	Gly	Val	Glu	Leu	Ser	Gly	Arg
2000						2005					2010			
Ala	Asp	Leu	Ser	Gly	Leu	Tyr	Ser	Pro	Ile	Lys	Leu	Pro	Phe	Phe
2015						2020					2025			
Tyr	Ser	Glu	Pro	Val	Asn	Val	Leu	Asn	Gly	Leu	Glu	Val	Asn	Asp
2030						2035					2040			
Ala	Val	Asp	Lys	Pro	Gln	Glu	Phe	Thr	Ile	Ile	Ala	Val	Val	Lys
2045						2050					2055			
Tyr	Asp	Lys	Asn	Gln	Asp	Val	His	Thr	Ile	Asn	Leu	Pro	Phe	Phe
2060						2065					2070			
Lys	Ser	Leu	Pro	Asp	Tyr	Leu	Glu	Arg	Asn	Arg	Arg	Gly	Met	Ile
2075						2080					2085			

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Ser	Leu	Leu	Glu	Ala	Met	Arg	Gly	Glu	Leu	Gln	Arg	Leu	Ser	Val
	2090					2095					2100			
Asp	Gln	Phe	Val	Arg	Lys	Tyr	Arg	Ala	Ala	Leu	Ser	Arg	Leu	Pro
	2105					2110					2115			
Gln	Gln	Ile	His	His	Tyr	Leu	Asn	Ala	Ser	Asp	Trp	Glu	Arg	Gln
	2120					2125					2130			
Val	Ala	Gly	Ala	Lys	Glu	Lys	Ile	Thr	Ser	Phe	Met	Glu	Asn	Tyr
	2135					2140					2145			
Arg	Ile	Thr	Asp	Asn	Asp	Val	Leu	Ile	Ala	Ile	Asp	Ser	Ala	Lys
	2150					2155					2160			
Ile	Asn	Phe	Asn	Glu	Lys	Leu	Ser	Gln	Leu	Glu	Thr	Tyr	Ala	Ile
	2165					2170					2175			
Gln	Phe	Asp	Gln	Tyr	Ile	Lys	Asp	Asn	Tyr	Asp	Pro	His	Asp	Leu
	2180					2185					2190			
Lys	Arg	Thr	Ile	Ala	Glu	Ile	Ile	Asp	Arg	Ile	Ile	Glu	Lys	Leu
	2195					2200					2205			
Lys	Ile	Leu	Asp	Glu	Gln	Tyr	His	Ile	Arg	Val	Asn	Leu	Ala	Lys
	2210					2215					2220			
Ser	Ile	His	Asn	Leu	Tyr	Leu	Phe	Val	Glu	Asn	Val	Asp	Leu	Asn
	2225					2230					2235			
Gln	Val	Ser	Ser	Ser	Asn	Thr	Ser	Trp	Ile	Gln	Asn	Val	Asp	Ser
	2240					2245					2250			
Asn	Tyr	Gln	Val	Arg	Ile	Gln	Ile	Gln	Glu	Lys	Leu	Gln	Gln	Leu
	2255					2260					2265			
Arg	Thr	Gln	Ile	Gln	Asn	Ile	Asp	Ile	Gln	Gln	Leu	Ala	Ala	Glu
	2270					2275					2280			
Val	Lys	Arg	Gln	Met	Asp	Ala	Ile	Asp	Val	Thr	Met	His	Leu	Asp
	2285					2290					2295			
Gln	Leu	Arg	Thr	Ala	Ile	Leu	Phe	Gln	Arg	Ile	Ser	Asp	Ile	Ile
	2300					2305					2310			
Asp	Arg	Val	Lys	Tyr	Phe	Val	Met	Asn	Leu	Ile	Glu	Asp	Phe	Lys
	2315					2320					2325			
Val	Thr	Glu	Lys	Ile	Asn	Thr	Phe	Arg	Val	Ile	Val	Arg	Glu	Leu
	2330					2335					2340			

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Ile	Glu	Lys	Tyr	Glu	Val	Asp	Gln	His	Ile	Gln	Val	Leu	Met	Asp
	2345					2350					2355			
Lys	Ser	Val	Glu	Leu	Ala	His	Arg	Tyr	Ser	Leu	Ser	Glu	Pro	Leu
	2360					2365					2370			
Gln	Lys	Leu	Ser	Asn	Val	Leu	Gln	Arg	Ile	Glu	Ile	Lys	Asp	Tyr
	2375					2380					2385			
Tyr	Glu	Lys	Leu	Val	Gly	Phe	Ile	Asp	Asp	Thr	Val	Glu	Trp	Leu
	2390					2395					2400			
Lys	Ala	Leu	Ser	Phe	Lys	Asn	Thr	Ile	Glu	Glu	Leu	Asn	Arg	Leu
	2405					2410					2415			
Thr	Asp	Met	Leu	Val	Lys	Lys	Leu	Lys	Ala	Phe	Asp	Tyr	His	Gln
	2420					2425					2430			
Phe	Val	Asp	Lys	Thr	Asn	Ser	Lys	Ile	Arg	Glu	Met	Thr	Gln	Arg
	2435					2440					2445			
Ile	Asn	Ala	Glu	Ile	Gln	Ala	Leu	Lys	Leu	Pro	Gln	Lys	Met	Glu
	2450					2455					2460			
Ala	Leu	Lys	Leu	Leu	Val	Glu	Asp	Phe	Lys	Thr	Thr	Val	Ser	Asn
	2465					2470					2475			
Ser	Leu	Glu	Arg	Leu	Lys	Asp	Thr	Lys	Val	Thr	Val	Val	Ile	Asp
	2480					2485					2490			
Trp	Leu	Gln	Asp	Ile	Leu	Thr	Gln	Met	Lys	Asp	His	Phe	Gln	Asp
	2495					2500					2505			
Thr	Leu	Glu	Asp	Val	Arg	Asp	Arg	Ile	Tyr	Gln	Met	Asp	Ile	Gln
	2510					2515					2520			
Arg	Glu	Leu	Glu	His	Phe	Leu	Ser	Leu	Val	Asn	Gln	Val	Tyr	Ser
	2525					2530					2535			
Thr	Leu	Val	Thr	Tyr	Met	Ser	Asp	Trp	Trp	Thr	Leu	Thr	Ala	Lys
	2540					2545					2550			
Asn	Ile	Thr	Asp	Phe	Ala	Glu	Gln	Tyr	Ser	Ile	Gln	Asn	Trp	Ala
	2555					2560					2565			
Glu	Ser	Ile	Lys	Val	Leu	Val	Glu	Gln	Gly	Phe	Ile	Val	Pro	Glu
	2570					2575					2580			
Met	Gln	Thr	Phe	Leu	Trp	Thr	Met	Pro	Ala	Phe	Glu	Val	Ser	Leu
	2585					2590					2595			

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Arg	Ala	Leu	Gln	Glu	Gly	Asn	Phe	Gln	Thr	Pro	Val	Phe	Ile	Val
2600						2605					2610			
Pro	Leu	Thr	Asp	Leu	Arg	Ile	Pro	Ser	Ile	Arg	Ile	Asn	Phe	Lys
2615						2620					2625			
Met	Leu	Lys	Asn	Ile	Lys	Ile	Pro	Leu	Arg	Phe	Ser	Thr	Pro	Glu
2630						2635					2640			
Phe	Thr	Leu	Leu	Asn	Thr	Phe	His	Val	His	Ser	Phe	Thr	Ile	Asp
2645						2650					2655			
Leu	Leu	Glu	Ile	Lys	Ala	Lys	Ile	Ile	Arg	Thr	Ile	Asp	Gln	Ile
2660						2665					2670			
Leu	Ser	Ser	Glu	Leu	Gln	Trp	Pro	Leu	Pro	Glu	Met	Tyr	Leu	Arg
2675						2680					2685			
Asp	Leu	Asp	Val	Val	Asn	Ile	Pro	Leu	Ala	Arg	Leu	Thr	Leu	Pro
2690						2695					2700			
Asp	Phe	His	Val	Pro	Glu	Ile	Thr	Ile	Pro	Glu	Phe	Thr	Ile	Pro
2705						2710					2715			
Asn	Val	Asn	Leu	Lys	Asp	Leu	His	Val	Pro	Asp	Leu	His	Ile	Pro
2720						2725					2730			
Glu	Phe	Gln	Leu	Pro	His	Leu	Ser	His	Thr	Ile	Glu	Ile	Pro	Ala
2735						2740					2745			
Phe	Gly	Lys	Leu	His	Ser	Ile	Leu	Lys	Ile	Gln	Ser	Pro	Leu	Phe
2750						2755					2760			
Ile	Leu	Asp	Ala	Asn	Ala	Asn	Ile	Gln	Asn	Val	Thr	Thr	Ser	Gly
2765						2770					2775			
Asn	Lys	Ala	Glu	Ile	Val	Ala	Ser	Val	Thr	Ala	Lys	Gly	Glu	Ser
2780						2785					2790			
Gln	Phe	Glu	Ala	Leu	Asn	Phe	Asp	Phe	Gln	Ala	Gln	Ala	Gln	Phe
2795						2800					2805			
Leu	Glu	Leu	Asn	Pro	His	Pro	Pro	Val	Leu	Lys	Glu	Ser	Met	Asn
2810						2815					2820			
Phe	Ser	Ser	Lys	His	Val	Arg	Met	Glu	His	Glu	Gly	Glu	Ile	Val
2825						2830					2835			
Phe	Asp	Gly	Lys	Ala	Ile	Glu	Gly	Lys	Ser	Asp	Thr	Val	Ala	Ser
2840						2845					2850			

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Leu	His 2855	Thr	Glu	Lys	Asn	Glu 2860	Val	Glu	Phe	Asn	Asn 2865	Gly	Met	Thr
Val	Lys 2870	Val	Asn	Asn	Gln	Leu 2875	Thr	Leu	Asp	Ser	His 2880	Thr	Lys	Tyr
Phe	His 2885	Lys	Leu	Ser	Val	Pro 2890	Arg	Leu	Asp	Phe	Ser 2895	Ser	Lys	Ala
Ser	Leu 2900	Asn	Asn	Glu	Ile	Lys 2905	Thr	Leu	Leu	Glu	Ala 2910	Gly	His	Val
Ala	Leu 2915	Thr	Ser	Ser	Gly	Thr 2920	Gly	Ser	Trp	Asn	Trp 2925	Ala	Cys	Pro
Asn	Phe 2930	Ser	Asp	Glu	Gly	Ile 2935	His	Ser	Ser	Gln	Ile 2940	Ser	Phe	Thr
Val	Asp 2945	Gly	Pro	Ile	Ala	Phe 2950	Val	Gly	Leu	Ser	Asn 2955	Asn	Ile	Asn
Gly	Lys 2960	His	Leu	Arg	Val	Ile 2965	Gln	Lys	Leu	Thr	Tyr 2970	Glu	Ser	Gly
Phe	Leu 2975	Asn	Tyr	Ser	Lys	Phe 2980	Glu	Val	Glu	Ser	Lys 2985	Val	Glu	Ser
Gln	His 2990	Val	Gly	Ser	Ser	Ile 2995	Leu	Thr	Ala	Asn	Gly 3000	Arg	Ala	Leu
Leu	Lys 3005	Asp	Ala	Lys	Ala	Glu 3010	Met	Thr	Gly	Glu	His 3015	Asn	Ala	Asn
Leu	Asn 3020	Gly	Lys	Val	Ile	Gly 3025	Thr	Leu	Lys	Asn	Ser 3030	Leu	Phe	Phe
Ser	Ala 3035	Gln	Pro	Phe	Glu	Ile 3040	Thr	Ala	Ser	Thr	Asn 3045	Asn	Glu	Gly
Asn	Leu 3050	Lys	Val	Gly	Phe	Pro 3055	Leu	Lys	Leu	Thr	Gly 3060	Lys	Ile	Asp
Phe	Leu 3065	Asn	Asn	Tyr	Ala	Leu 3070	Phe	Leu	Ser	Pro	Arg 3075	Ala	Gln	Gln
Ala	Ser 3080	Trp	Gln	Ala	Ser	Thr 3085	Arg	Phe	Asn	Gln	Tyr 3090	Lys	Tyr	Asn
Gln	Asn 3095	Phe	Ser	Ala	Ile	Asn 3100	Asn	Glu	His	Asn	Ile 3105	Glu	Ala	Ser

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Ile	Gly	Met	Asn	Gly	Asp	Ala	Asn	Leu	Asp	Phe	Leu	Asn	Ile	Pro
	3110					3115					3120			
Leu	Thr	Ile	Pro	Glu	Ile	Asn	Leu	Pro	Tyr	Thr	Glu	Phe	Lys	Thr
	3125					3130					3135			
Pro	Leu	Leu	Lys	Asp	Phe	Ser	Ile	Trp	Glu	Glu	Thr	Gly	Leu	Lys
	3140					3145					3150			
Glu	Phe	Leu	Lys	Thr	Thr	Lys	Gln	Ser	Phe	Asp	Leu	Ser	Val	Lys
	3155					3160					3165			
Ala	Gln	Tyr	Lys	Lys	Asn	Ser	Asp	Lys	His	Ser	Ile	Val	Val	Pro
	3170					3175					3180			
Leu	Gly	Met	Phe	Tyr	Glu	Phe	Ile	Leu	Asn	Asn	Val	Asn	Ser	Trp
	3185					3190					3195			
Asp	Arg	Lys	Phe	Glu	Lys	Val	Arg	Asn	Asn	Ala	Leu	His	Phe	Leu
	3200					3205					3210			
Thr	Thr	Ser	Tyr	Asn	Glu	Ala	Lys	Ile	Lys	Val	Asp	Lys	Tyr	Lys
	3215					3220					3225			
Thr	Glu	Asn	Ser	Leu	Asn	Gln	Pro	Ser	Gly	Thr	Phe	Gln	Asn	His
	3230					3235					3240			
Gly	Tyr	Thr	Ile	Pro	Val	Val	Asn	Ile	Glu	Val	Ser	Pro	Phe	Ala
	3245					3250					3255			
Val	Glu	Thr	Leu	Ala	Ser	Ser	His	Val	Ile	Pro	Thr	Ala	Ile	Ser
	3260					3265					3270			
Thr	Pro	Ser	Val	Thr	Ile	Pro	Gly	Pro	Asn	Ile	Met	Val	Pro	Ser
	3275					3280					3285			
Tyr	Lys	Leu	Val	Leu	Pro	Pro	Leu	Glu	Leu	Pro	Val	Phe	His	Gly
	3290					3295					3300			
Pro	Gly	Asn	Leu	Phe	Lys	Phe	Phe	Leu	Pro	Asp	Phe	Lys	Gly	Phe
	3305					3310					3315			
Asn	Thr	Ile	Asp	Asn	Ile	Tyr	Ile	Pro	Ala	Met	Gly	Asn	Phe	Thr
	3320					3325					3330			
Tyr	Asp	Phe	Ser	Phe	Lys	Ser	Ser	Val	Ile	Thr	Leu	Asn	Thr	Asn
	3335					3340					3345			
Ala	Gly	Leu	Tyr	Asn	Gln	Ser	Asp	Ile	Val	Ala	His	Phe	Leu	Ser
	3350					3355					3360			

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Ser	Ser	Ser	Phe	Val	Thr	Asp	Ala	Leu	Gln	Tyr	Lys	Leu	Glu	Gly
	3365					3370					3375			
Thr	Ser	Arg	Leu	Met	Arg	Lys	Arg	Gly	Leu	Lys	Leu	Ala	Thr	Ala
	3380					3385					3390			
Val	Ser	Leu	Thr	Asn	Lys	Phe	Val	Lys	Gly	Ser	His	Asp	Ser	Thr
	3395					3400					3405			
Ile	Ser	Leu	Thr	Lys	Lys	Asn	Met	Glu	Ala	Ser	Val	Arg	Thr	Thr
	3410					3415					3420			
Ala	Asn	Leu	His	Ala	Pro	Ile	Phe	Ser	Met	Asn	Phe	Lys	Gln	Glu
	3425					3430					3435			
Leu	Asn	Gly	Asn	Thr	Lys	Ser	Lys	Pro	Thr	Val	Ser	Ser	Ser	Ile
	3440					3445					3450			
Glu	Leu	Asn	Tyr	Asp	Phe	Asn	Ser	Ser	Lys	Leu	His	Ser	Thr	Ala
	3455					3460					3465			
Thr	Gly	Gly	Ile	Asp	His	Lys	Phe	Ser	Leu	Glu	Ser	Leu	Thr	Ser
	3470					3475					3480			
Tyr	Phe	Ser	Ile	Glu	Ser	Phe	Thr	Lys	Gly	Asn	Ile	Lys	Ser	Ser
	3485					3490					3495			
Phe	Leu	Ser	Gln	Glu	Tyr	Ser	Gly	Ser	Val	Ala	Asn	Glu	Ala	Asn
	3500					3505					3510			
Val	Tyr	Leu	Asn	Ser	Lys	Gly	Thr	Arg	Ser	Ser	Val	Arg	Leu	Gln
	3515					3520					3525			
Gly	Ala	Ser	Lys	Val	Asp	Gly	Ile	Trp	Asn	Val	Glu	Val	Gly	Glu
	3530					3535					3540			
Asn	Phe	Ala	Gly	Glu	Ala	Thr	Leu	Gln	Arg	Ile	Tyr	Thr	Thr	Trp
	3545					3550					3555			
Glu	His	Asn	Met	Lys	Asn	His	Leu	Gln	Val	Tyr	Ser	Tyr	Phe	Phe
	3560					3565					3570			
Thr	Lys	Gly	Lys	Gln	Thr	Cys	Arg	Ala	Thr	Leu	Glu	Leu	Ser	Pro
	3575					3580					3585			
Trp	Thr	Met	Ser	Thr	Leu	Leu	Gln	Val	His	Val	Ser	Gln	Leu	Ser
	3590					3595					3600			
Ser	Leu	Leu	Asp	Leu	His	His	Phe	Asp	Gln	Glu	Val	Ile	Leu	Lys
	3605					3610					3615			

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Ala	Asn	Thr	Lys	Asn	Gln	Lys	Ile	Ser	Trp	Lys	Gly	Gly	Val	Gln
	3620					3625					3630			
Val	Glu	Ser	Arg	Val	Leu	Gln	His	Asn	Ala	Gln	Phe	Ser	Asn	Asp
	3635					3640					3645			
Gln	Glu	Glu	Ile	Arg	Leu	Asp	Leu	Ala	Gly	Ser	Leu	Asp	Gly	Gln
	3650					3655					3660			
Leu	Trp	Asp	Leu	Glu	Ala	Ile	Phe	Leu	Pro	Val	Tyr	Gly	Lys	Ser
	3665					3670					3675			
Leu	Gln	Glu	Leu	Leu	Gln	Met	Asp	Gly	Lys	Arg	Gln	Tyr	Leu	Gln
	3680					3685					3690			
Ala	Ser	Thr	Ser	Leu	Leu	Tyr	Thr	Lys	Asn	Pro	Asn	Gly	Tyr	Leu
	3695					3700					3705			
Leu	Ser	Leu	Pro	Val	Gln	Glu	Leu	Ala	Asp	Arg	Phe	Ile	Ile	Pro
	3710					3715					3720			
Gly	Ile	Lys	Leu	Asn	Asp	Phe	Ser	Gly	Val	Lys	Ile	Tyr	Lys	Lys
	3725					3730					3735			
Leu	Ser	Thr	Ser	Pro	Phe	Ala	Leu	Asn	Leu	Thr	Met	Leu	Pro	Lys
	3740					3745					3750			
Val	Lys	Phe	Pro	Gly	Ile	Asp	Leu	Leu	Thr	Gln	Tyr	Ser	Thr	Pro
	3755					3760					3765			
Glu	Gly	Ser	Ser	Val	Pro	Ile	Phe	Glu	Ala	Thr	Ile	Pro	Glu	Ile
	3770					3775					3780			
His	Leu	Thr	Val	Ser	Gln	Phe	Thr	Leu	Pro	Lys	Ser	Leu	Pro	Val
	3785					3790					3795			
Gly	Asn	Thr	Val	Phe	Asp	Leu	Asn	Lys	Leu	Ala	Asn	Met	Ile	Ala
	3800					3805					3810			
Asp	Val	Asp	Leu	Pro	Ser	Val	Thr	Leu	Pro	Glu	Gln	Thr	Ile	Val
	3815					3820					3825			
Ile	Pro	Pro	Leu	Glu	Phe	Ser	Val	Pro	Ala	Gly	Ile	Phe	Ile	Pro
	3830					3835					3840			
Phe	Phe	Gly	Glu	Leu	Thr	Ala	Arg	Ala	Gly	Met	Ala	Ser	Pro	Leu
	3845					3850					3855			
Tyr	Asn	Val	Thr	Trp	Ser	Ala	Gly	Trp	Lys	Thr	Lys	Ala	Asp	His
	3860					3865					3870			

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Val	Glu	Thr	Phe	Leu	Asp	Ser	Met	Cys	Thr	Ser	Thr	Leu	Gln	Phe
	3875					3880					3885			
Leu	Glu	Tyr	Ala	Leu	Lys	Val	Val	Glu	Thr	His	Lys	Ile	Glu	Glu
	3890					3895					3900			
Asp	Leu	Leu	Thr	Tyr	Asn	Ile	Lys	Gly	Thr	Leu	Gln	His	Cys	Asp
	3905					3910					3915			
Phe	Asn	Val	Glu	Tyr	Asn	Glu	Asp	Gly	Leu	Phe	Lys	Gly	Leu	Trp
	3920					3925					3930			
Asp	Trp	Gln	Gly	Glu	Ala	His	Leu	Asp	Ile	Thr	Ser	Pro	Ala	Leu
	3935					3940					3945			
Thr	Asp	Phe	His	Leu	Tyr	Tyr	Lys	Glu	Asp	Lys	Thr	Ser	Leu	Ser
	3950					3955					3960			
Ala	Ser	Ala	Ala	Ser	Ser	Thr	Ile	Gly	Thr	Val	Gly	Leu	Asp	Ser
	3965					3970					3975			
Ser	Thr	Asp	Asp	Gln	Ser	Val	Glu	Leu	Asn	Val	Tyr	Phe	His	Pro
	3980					3985					3990			
Gln	Ser	Pro	Pro	Glu	Lys	Lys	Leu	Ser	Ile	Phe	Lys	Thr	Glu	Trp
	3995					4000					4005			
Arg	Tyr	Lys	Glu	Ser	Asp	Gly	Glu	Arg	Tyr	Ile	Lys	Ile	Asn	Trp
	4010					4015					4020			
Glu	Glu	Glu	Ala	Ala	Ser	Arg	Leu	Leu	Gly	Ser	Leu	Lys	Ser	Asn
	4025					4030					4035			
Val	Pro	Lys	Ala	Ser	Lys	Ala	Ile	Tyr	Asp	Tyr	Ala	Asn	Lys	Tyr
	4040					4045					4050			
His	Leu	Glu	Tyr	Val	Ser	Ser	Glu	Leu	Arg	Lys	Ser	Leu	Gln	Val
	4055					4060					4065			
Asn	Ala	Glu	His	Ala	Arg	Arg	Met	Val	Asp	Glu	Met	Asn	Met	Ser
	4070					4075					4080			
Phe	Gln	Arg	Val	Ala	Arg	Asp	Thr	Tyr	Gln	Asn	Leu	Tyr	Glu	Glu
	4085					4090					4095			
Met	Leu	Ala	Gln	Lys	Ser	Leu	Ser	Ile	Pro	Glu	Asn	Leu	Lys	Lys
	4100					4105					4110			
Arg	Val	Leu	Asp	Ser	Ile	Val	His	Val	Thr	Gln	Lys	Tyr	His	Met
	4115					4120					4125			

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Ala	Val	Met	Trp	Leu	Met	Asp	Ser	Phe	Ile	His	Phe	Leu	Lys	Phe
4130						4135					4140			
Asn	Arg	Val	Gln	Phe	Pro	Gly	Tyr	Ala	Gly	Thr	Tyr	Thr	Val	Asp
4145						4150					4155			
Glu	Leu	Tyr	Thr	Ile	Val	Met	Lys	Glu	Thr	Lys	Lys	Ser	Leu	Ser
4160						4165					4170			
Gln	Leu	Phe	Asn	Gly	Leu	Gly	Asn	Leu	Leu	Ser	Tyr	Val	Gln	Asn
4175						4180					4185			
Gln	Val	Glu	Lys	Ser	Arg	Leu	Ile	Asn	Asp	Ile	Thr	Phe	Lys	Cys
4190						4195					4200			
Pro	Phe	Phe	Ser	Lys	Pro	Cys	Lys	Leu	Lys	Asp	Leu	Ile	Leu	Ile
4205						4210					4215			
Phe	Arg	Glu	Glu	Leu	Asn	Ile	Leu	Ser	Asn	Ile	Gly	Gln	Gln	Asp
4220						4225					4230			
Ile	Lys	Phe	Thr	Thr	Ile	Leu	Ser	Ser	Leu	Gln	Gly	Phe	Leu	Glu
4235						4240					4245			
Arg	Val	Leu	Asp	Ile	Ile	Glu	Glu	Gln	Ile	Lys	Cys	Leu	Lys	Asp
4250						4255					4260			
Asn	Glu	Ser	Thr	Cys	Val	Ala	Asp	His	Ile	Asn	Met	Val	Phe	Lys
4265						4270					4275			
Ile	Gln	Val	Pro	Tyr	Ala	Phe	Lys	Ser	Leu	Arg	Glu	Asp	Ile	Tyr
4280						4285					4290			
Phe	Val	Leu	Gly	Glu	Phe	Asn	Asp	Phe	Leu	Gln	Ser	Ile	Leu	Gln
4295						4300					4305			
Glu	Gly	Ser	Tyr	Lys	Leu	Gln	Gln	Val	His	Gln	Tyr	Met	Lys	Ala
4310						4315					4320			
Leu	Arg	Glu	Glu	Tyr	Phe	Asp	Pro	Ser	Met	Val	Gly	Trp	Thr	Val
4325						4330					4335			
Lys	Tyr	Tyr	Glu	Ile	Glu	Glu	Asn	Met	Val	Glu	Leu	Ile	Lys	Thr
4340						4345					4350			
Leu	Leu	Val	Ser	Phe	Arg	Asp	Val	Tyr	Ser	Glu	Tyr	Ser	Val	Thr
4355						4360					4365			
Ala	Ala	Asp	Phe	Ala	Ser	Lys	Met	Ser	Thr	Gln	Val	Glu	Gln	Phe
4370						4375					4380			

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Val Ser Arg Asp Ile Arg Glu Tyr Leu Ser Met Leu Thr Asp Ile
4385 4390 4395

Asn Gly Lys Trp Met Glu Lys Ile Ala Glu Leu Ser Ile Val Ala
4400 4405 4410

Lys Glu Thr Met Lys Ser Trp Val Thr Ala Val Ala Lys Ile Met
4415 4420 4425

Ser Asp Tyr Pro Gln Gln Phe His Ser Asn Leu Gln Asp Phe Ser
4430 4435 4440

Asp Gln Leu Ser Ser Tyr Tyr Glu Lys Phe Val Gly Glu Ser Thr
4445 4450 4455

Arg Leu Ile Asp Leu Ser Ile Gln Asn Tyr His Val Phe Leu Arg
4460 4465 4470

Tyr Ile Thr Glu Leu Leu Arg Lys Leu Gln Val Ala Thr Ala Asn
4475 4480 4485

Asn Val Ser Pro Tyr Ile Lys Leu Ala Gln Gly Glu Leu Met Ile
4490 4495 4500

Thr Phe
4505

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<211> 317

<212> PRT

<213> Homo sapiens

<400> 37

Met Lys Val Leu Trp Ala Ala Leu Leu Val Thr Phe Leu Ala Gly Cys
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Gln Ala Lys Val Glu Gln Ala Val Glu Thr Glu Pro Glu Pro Glu Leu
20 25 30

Arg Gln Gln Thr Glu Trp Gln Ser Gly Gln Arg Trp Glu Leu Ala Leu
35 40 45

Gly Arg Phe Trp Asp Tyr Leu Arg Trp Val Gln Thr Leu Ser Glu Gln
50 55 60

Val Gln Glu Glu Leu Leu Ser Ser Gln Val Thr Gln Glu Leu Arg Ala
65 70 75 80

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

Glu Glu Gln Leu Thr Pro Val Ala Glu Glu Thr Arg Ala Arg Leu Ser
100 105 110

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Lys Glu Leu Gln Ala Ala Gln Ala Arg Leu Gly Ala Asp Met Glu Asp
115 120 125

Val Cys Gly Arg Leu Val Gln Tyr Arg Gly Glu Val Gln Ala Met Leu
130 135 140

Gly Gln Ser Thr Glu Glu Leu Arg Val Arg Leu Ala Ser His Leu Arg
145 150 155 160

Lys Leu Arg Lys Arg Leu Leu Arg Asp Ala Asp Asp Leu Gln Lys Arg
165 170 175

Leu Ala Val Tyr Gln Ala Gly Ala Arg Glu Gly Ala Glu Arg Gly Leu
180 185 190

Ser Ala Ile Arg Glu Arg Leu Gly Pro Leu Val Glu Gln Gly Arg Val
195 200 205

Arg Ala Ala Thr Val Gly Ser Leu Ala Gly Gln Pro Leu Gln Glu Arg
210 215 220

Ala Gln Ala Trp Gly Glu Arg Leu Arg Ala Arg Met Glu Glu Met Gly
225 230 235 240

Ser Arg Thr Arg Asp Arg Leu Asp Glu Val Lys Glu Gln Val Ala Glu
245 250 255

Val Arg Ala Lys Leu Glu Glu Gln Ala Gln Gln Ile Arg Leu Gln Ala
260 265 270

Glu Ala Phe Gln Ala Arg Leu Lys Ser Trp Phe Glu Pro Leu Val Glu
275 280 285

Asp Met Gln Arg Gln Trp Ala Gly Leu Val Glu Lys Val Gln Ala Ala
290 295 300

Val Gly Thr Ser Ala Ala Pro Val Pro Ser Asp Asn His
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<210> 38

<211> 1480

<212> PRT

<213> Homo sapiens

<400> 38

Met Lys Pro Arg Ala Glu Cys Cys Ser Pro Lys Phe Trp Leu Val Leu
1 5 10 15

Ala Val Leu Ala Val Ser Gly Ser Arg Ala Arg Ser Gln Lys Ser Pro
20 25 30

P-2017-14468 LISTADO DE SECUENCIAS.txt

Pro Ser Ile Gly Ile Ala Val Ile Leu Val Gly Thr Ser Asp Glu Val
35 40 45

Ala Ile Lys Asp Ala His Glu Lys Asp Asp Phe His His Leu Ser Val
50 55 60

Val Pro Arg Val Glu Leu Val Ala Met Asn Glu Thr Asp Pro Lys Ser
65 70 75 80

Ile Ile Thr Arg Ile Cys Asp Leu Met Ser Asp Arg Lys Ile Gln Gly
85 90 95

Val Val Phe Ala Asp Asp Thr Asp Gln Glu Ala Ile Ala Gln Ile Leu
100 105 110

Asp Phe Ile Ser Ala Gln Thr Leu Thr Pro Ile Leu Gly Ile His Gly
115 120 125

Gly Ser Ser Met Ile Met Ala Asp Lys Asp Glu Ser Ser Met Phe Phe
130 135 140

Gln Phe Gly Pro Ser Ile Glu Gln Gln Ala Ser Val Met Leu Asn Ile
145 150 155 160

Met Glu Glu Tyr Asp Trp Tyr Ile Phe Ser Ile Val Thr Thr Tyr Phe
165 170 175

Pro Gly Tyr Gln Asp Phe Val Asn Lys Ile Arg Ser Thr Ile Glu Asn
180 185 190

Ser Phe Val Gly Trp Glu Leu Glu Glu Val Leu Leu Leu Asp Met Ser
195 200 205

Leu Asp Asp Gly Asp Ser Lys Ile Gln Asn Gln Leu Lys Lys Leu Gln
210 215 220

Ser Pro Ile Ile Leu Leu Tyr Cys Thr Lys Glu Glu Ala Thr Tyr Ile
225 230 235 240

Phe Glu Val Ala Asn Ser Val Gly Leu Thr Gly Tyr Gly Tyr Thr Trp
245 250 255

Ile Val Pro Ser Leu Val Ala Gly Asp Thr Asp Thr Val Pro Ala Glu
260 265 270

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

Leu Pro Ala Arg Val Arg Asp Gly Ile Ala Ile Ile Thr Thr Ala Ala
290 295 300

P-2017-14468 LISTADO DE SECUENCIAS.txt

Ser Asp Met Leu Ser Glu His Ser Phe Ile Pro Glu Pro Lys Ser Ser
305 310 315 320

Cys Tyr Asn Thr His Glu Lys Arg Ile Tyr Gln Ser Asn Met Leu Asn
325 330 335

Arg Tyr Leu Ile Asn Val Thr Phe Glu Gly Arg Asn Leu Ser Phe Ser
340 345 350

Glu Asp Gly Tyr Gln Met His Pro Lys Leu Val Ile Ile Leu Leu Asn
355 360 365

Lys Glu Arg Lys Trp Glu Arg Val Gly Lys Trp Lys Asp Lys Ser Leu
370 375 380

Gln Met Lys Tyr Tyr Val Trp Pro Arg Met Cys Pro Glu Thr Glu Glu
385 390 395 400

Gln Glu Asp Asp His Leu Ser Ile Val Thr Leu Glu Glu Ala Pro Phe
405 410 415

Val Ile Val Glu Ser Val Asp Pro Leu Ser Gly Thr Cys Met Arg Asn
420 425 430

Thr Val Pro Cys Gln Lys Arg Ile Val Thr Glu Asn Lys Thr Asp Glu
435 440 445

Glu Pro Gly Tyr Ile Lys Lys Cys Cys Lys Gly Phe Cys Ile Asp Ile
450 455 460

Leu Lys Lys Ile Ser Lys Ser Val Lys Phe Thr Tyr Asp Leu Tyr Leu
465 470 475 480

Val Thr Asn Gly Lys His Gly Lys Lys Ile Asn Gly Thr Trp Asn Gly
485 490 495

Met Ile Gly Glu Val Val Met Lys Arg Ala Tyr Met Ala Val Gly Ser
500 505 510

Leu Thr Ile Asn Glu Glu Arg Ser Glu Val Val Asp Phe Ser Val Pro
515 520 525

Phe Ile Glu Thr Gly Ile Ser Val Met Val Ser Arg Ser Asn Gly Thr
530 535 540

Val Ser Pro Ser Ala Phe Leu Glu Pro Phe Ser Ala Asp Val Trp Val
545 550 555 560

Met Met Phe Val Met Leu Leu Ile Val Ser Ala Val Ala Val Phe Val
565 570 575

P-2017-14468 LISTADO DE SECUENCIAS.txt

Phe Glu Tyr Phe Ser Pro Val Gly Tyr Asn Arg Cys Leu Ala Asp Gly
580 585 590

Arg Glu Pro Gly Gly Pro Ser Phe Thr Ile Gly Lys Ala Ile Trp Leu
595 600 605

Leu Trp Gly Leu Val Phe Asn Asn Ser Val Pro Val Gln Asn Pro Lys
610 615 620

Gly Thr Thr Ser Lys Ile Met Val Ser Val Trp Ala Phe Phe Ala Val
625 630 635 640

Ile Phe Leu Ala Ser Tyr Thr Ala Asn Leu Ala Ala Phe Met Ile Gln
645 650 655

Glu Glu Tyr Val Asp Gln Val Ser Gly Leu Ser Asp Lys Lys Phe Gln
660 665 670

Arg Pro Asn Asp Phe Ser Pro Pro Phe Arg Phe Gly Thr Val Pro Asn
675 680 685

Gly Ser Thr Glu Arg Asn Ile Arg Asn Asn Tyr Ala Glu Met His Ala
690 695 700

Tyr Met Gly Lys Phe Asn Gln Arg Gly Val Asp Asp Ala Leu Leu Ser
705 710 715 720

Leu Lys Thr Gly Lys Leu Asp Ala Phe Ile Tyr Asp Ala Ala Val Leu
725 730 735

Asn Tyr Met Ala Gly Arg Asp Glu Gly Cys Lys Leu Val Thr Ile Gly
740 745 750

Ser Gly Lys Val Phe Ala Ser Thr Gly Tyr Gly Ile Ala Ile Gln Lys
755 760 765

Asp Ser Gly Trp Lys Arg Gln Val Asp Leu Ala Ile Leu Gln Leu Phe
770 775 780

Gly Asp Gly Glu Met Glu Glu Leu Glu Ala Leu Trp Leu Thr Gly Ile
785 790 795 800

Cys His Asn Glu Lys Asn Glu Val Met Ser Ser Gln Leu Asp Ile Asp
805 810 815

Asn Met Ala Gly Val Phe Tyr Met Leu Gly Ala Ala Met Ala Leu Ser
820 825 830

Leu Ile Thr Phe Ile Cys Glu His Leu Phe Tyr Trp Gln Phe Arg His
835 840 845

P-2017-14468 LISTADO DE SECUENCIAS.txt

Cys Phe Met Gly Val Cys Ser Gly Lys Pro Gly Met Val Phe Ser Ile
850 855 860

Ser Arg Gly Ile Tyr Ser Cys Ile His Gly Val Ala Ile Glu Glu Arg
865 870 875 880

Gln Ser Val Met Asn Ser Pro Thr Ala Thr Met Asn Asn Thr His Ser
885 890 895

Asn Ile Leu Arg Leu Leu Arg Thr Ala Lys Asn Met Ala Asn Leu Ser
900 905 910

Gly Val Asn Gly Ser Pro Gln Ser Ala Leu Asp Phe Ile Arg Arg Glu
915 920 925

Ser Ser Val Tyr Asp Ile Ser Glu His Arg Arg Ser Phe Thr His Ser
930 935 940

Asp Cys Lys Ser Tyr Asn Asn Pro Pro Cys Glu Glu Asn Leu Phe Ser
945 950 955 960

Asp Tyr Ile Ser Glu Val Glu Arg Thr Phe Gly Asn Leu Gln Leu Lys
965 970 975

Asp Ser Asn Val Tyr Gln Asp His Tyr His His His His Arg Pro His
980 985 990

Ser Ile Gly Ser Ala Ser Ser Ile Asp Gly Leu Tyr Asp Cys Asp Asn
995 1000 1005

Pro Pro Phe Thr Thr Gln Ser Arg Ser Ile Ser Lys Lys Pro Leu
1010 1015 1020

Asp Ile Gly Leu Pro Ser Ser Lys His Ser Gln Leu Ser Asp Leu
1025 1030 1035

Tyr Gly Lys Phe Ser Phe Lys Ser Asp Arg Tyr Ser Gly His Asp
1040 1045 1050

Asp Leu Ile Arg Ser Asp Val Ser Asp Ile Ser Thr His Thr Val
1055 1060 1065

Thr Tyr Gly Asn Ile Glu Gly Asn Ala Ala Lys Arg Arg Lys Gln
1070 1075 1080

Gln Tyr Lys Asp Ser Leu Lys Lys Arg Pro Ala Ser Ala Lys Ser
1085 1090 1095

Arg Arg Glu Phe Asp Glu Ile Glu Leu Ala Tyr Arg Arg Arg Pro
1100 1105 1110

P-2017-14468 LISTADO DE SECUENCIAS.txt

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

P-2017-14468 LISTADO DE SECUENCIAS.txt

Tyr Leu Ser Lys Ser Leu Tyr Pro Asp Arg Val Thr Gln Asn Pro
1370 1375 1380

Phe Ile Pro Thr Phe Gly Asp Asp Gln Cys Leu Leu His Gly Ser
1385 1390 1395

Lys Ser Tyr Phe Phe Arg Gln Pro Thr Val Ala Gly Ala Ser Lys
1400 1405 1410

Ala Arg Pro Asp Phe Arg Ala Leu Val Thr Asn Lys Pro Val Ser
1415 1420 1425

Ala Leu His Gly Ala Val Pro Ala Arg Phe Gln Lys Asp Ile Cys
1430 1435 1440

Ile Gly Asn Gln Ser Asn Pro Cys Val Pro Asn Asn Lys Asn Pro
1445 1450 1455

Arg Ala Phe Asn Gly Ser Ser Asn Gly His Val Tyr Glu Lys Leu
1460 1465 1470

Ser Ser Ile Glu Ser Asp Val
1475 1480

<210> 39
<211> 653
<212> PRT
<213> Homo sapiens

<400> 39
Met Glu Val Ala Met Val Ser Ala Glu Ser Ser Gly Cys Asn Ser His
1 5 10 15

Met Pro Tyr Gly Tyr Ala Ala Gln Ala Arg Ala Arg Glu Arg Glu Arg
20 25 30

Leu Ala His Ser Arg Ala Ala Ala Ala Ala Val Ala Ala Ala Thr
35 40 45

Ala Ala Val Glu Gly Ser Gly Gly Ser Gly Gly Gly Ser His His His
50 55 60

His Gln Ser Arg Gly Ala Cys Thr Ser His Asp Pro Gln Ser Ser Arg
65 70 75 80

Gly Ser Arg Arg Arg Arg Arg Gln Arg Ser Glu Lys Lys Lys Ala His
85 90 95

Tyr Arg Gln Ser Ser Phe Pro His Cys Ser Asp Leu Met Pro Ser Gly
100 105 110

Ser Glu Glu Lys Ile Leu Arg Glu Leu Ser Glu Glu Glu Glu Asp Glu
115 120 125

P-2017-14468 LISTADO DE SECUENCIAS.txt

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

P-2017-14468 LISTADO DE SECUENCIAS.txt

Lys Asn Ile Met Asn Ile Ile Asp Ile Val Ser Ile Leu Pro Tyr Phe
405 410 415

Ile Thr Leu Gly Thr Asp Leu Ala Gln Gln Gln Gly Gly Gly Asn Gly
420 425 430

Gln Gln Gln Gln Ala Met Ser Phe Ala Ile Leu Arg Ile Ile Arg Leu
435 440 445

Val Arg Val Phe Arg Ile Phe Lys Leu Ser Arg His Ser Lys Gly Leu
450 455 460

Gln Ile Leu Gly His Thr Leu Arg Ala Ser Met Arg Glu Leu Gly Leu
465 470 475 480

Leu Ile Phe Phe Leu Phe Ile Gly Val Ile Leu Phe Ser Ser Ala Val
485 490 495

Tyr Phe Ala Glu Ala Asp Glu Pro Thr Thr His Phe Gln Ser Ile Pro
500 505 510

Asp Ala Phe Trp Trp Ala Val Val Thr Met Thr Thr Val Gly Tyr Gly
515 520 525

Asp Met Lys Pro Ile Thr Val Gly Gly Lys Ile Val Gly Ser Leu Cys
530 535 540

Ala Ile Ala Gly Val Leu Thr Ile Ala Leu Pro Val Pro Val Ile Val
545 550 555 560

Ser Asn Phe Asn Tyr Phe Tyr His Arg Glu Thr Glu Asn Glu Glu Gln
565 570 575

Thr Gln Leu Thr Gln Asn Ala Val Ser Cys Pro Tyr Leu Pro Ser Asn
580 585 590

Leu Leu Lys Lys Phe Arg Ser Ser Thr Ser Ser Ser Leu Gly Asp Lys
595 600 605

Ser Glu Tyr Leu Glu Met Glu Glu Gly Val Lys Glu Ser Leu Cys Ala
610 615 620

Lys Glu Glu Lys Cys Gln Gly Lys Gly Asp Asp Ser Glu Thr Asp Lys
625 630 635 640

Asn Asn Cys Ser Asn Ala Lys Ala Val Glu Thr Asp Val
645 650

<210> 40
<211> 786

P-2017-14468 LISTADO DE SECUENCIAS.txt

<212> PRT

<213> Homo sapiens

<400> 40

Met Ala Gly Leu Thr Ala Ala Ala Pro Arg Pro Gly Val Leu Leu Leu
1 5 10 15

Leu Leu Ser Ile Leu His Pro Ser Arg Pro Gly Gly Val Pro Gly Ala
20 25 30

Ile Pro Gly Gly Val Pro Gly Gly Val Phe Tyr Pro Gly Ala Gly Leu
35 40 45

Gly Ala Leu Gly Gly Gly Ala Leu Gly Pro Gly Gly Lys Pro Leu Lys
50 55 60

Pro Val Pro Gly Gly Leu Ala Gly Ala Gly Leu Gly Ala Gly Leu Gly
65 70 75 80

Ala Phe Pro Ala Val Thr Phe Pro Gly Ala Leu Val Pro Gly Gly Val
85 90 95

Ala Asp Ala Ala Ala Tyr Lys Ala Ala Lys Ala Gly Ala Gly Leu
100 105 110

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

Val Pro Gln Pro Gly Ala Gly Val Lys Pro Gly Lys Val Pro Gly Val
130 135 140

Gly Leu Pro Gly Val Tyr Pro Gly Gly Val Leu Pro Gly Ala Arg Phe
145 150 155 160

Pro Gly Val Gly Val Leu Pro Gly Val Pro Thr Gly Ala Gly Val Lys
165 170 175

Pro Lys Ala Pro Gly Val Gly Gly Ala Phe Ala Gly Ile Pro Gly Val
180 185 190

Gly Pro Phe Gly Gly Pro Gln Pro Gly Val Pro Leu Gly Tyr Pro Ile
195 200 205

Lys Ala Pro Lys Leu Pro Gly Gly Tyr Gly Leu Pro Tyr Thr Thr Gly
210 215 220

Lys Leu Pro Tyr Gly Tyr Gly Pro Gly Gly Val Ala Gly Ala Ala Gly
225 230 235 240

Lys Ala Gly Tyr Pro Thr Gly Thr Gly Val Gly Pro Gln Ala Ala Ala
245 250 255

P-2017-14468 LISTADO DE SECUENCIAS.txt

Ala Ala Ala Ala Lys Ala Ala Ala Lys Phe Gly Ala Gly Ala Ala Gly
260 265 270

Val Leu Pro Gly Val Gly Gly Ala Gly Val Pro Gly Val Pro Gly Ala
275 280 285

Ile Pro Gly Ile Gly Gly Ile Ala Gly Val Gly Thr Pro Ala Ala Ala
290 295 300

Ala Ala Ala Ala Ala Ala Ala Lys Ala Ala Lys Tyr Gly Ala Ala Ala
305 310 315 320

Gly Leu Val Pro Gly Gly Pro Gly Phe Gly Pro Gly Val Val Gly Val
325 330 335

Pro Gly Ala Gly Val Pro Gly Val Gly Val Pro Gly Ala Gly Ile Pro
340 345 350

Val Val Pro Gly Ala Gly Ile Pro Gly Ala Ala Val Pro Gly Val Val
355 360 365

Ser Pro Glu Ala Ala Ala Lys Ala Ala Ala Lys Ala Ala Lys Tyr Gly
370 375 380

Ala Arg Pro Gly Val Gly Val Gly Gly Ile Pro Thr Tyr Gly Val Gly
385 390 395 400

Ala Gly Gly Phe Pro Gly Phe Gly Val Gly Val Gly Gly Ile Pro Gly
405 410 415

Val Ala Gly Val Pro Gly Val Gly Gly Val Pro Gly Val Gly Gly Val
420 425 430

Pro Gly Val Gly Ile Ser Pro Glu Ala Gln Ala Ala Ala Ala Ala Lys
435 440 445

Ala Ala Lys Tyr Gly Ala Ala Gly Ala Gly Val Leu Gly Gly Leu Val
450 455 460

Pro Gly Pro Gln Ala Ala Val Pro Gly Val Pro Gly Thr Gly Gly Val
465 470 475 480

Pro Gly Val Gly Thr Pro Ala Ala Ala Ala Ala Lys Ala Ala Ala Lys
485 490 495

Ala Ala Gln Phe Gly Leu Val Pro Gly Val Gly Val Ala Pro Gly Val
500 505 510

Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Leu Ala Pro
515 520 525

P-2017-14468 LISTADO DE SECUENCIAS.txt

Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Val
530 535 540

Ala Pro Gly Ile Gly Pro Gly Gly Val Ala Ala Ala Ala Lys Ser Ala
545 550 555 560

Ala Lys Val Ala Ala Lys Ala Gln Leu Arg Ala Ala Ala Gly Leu Gly
565 570 575

Ala Gly Ile Pro Gly Leu Gly Val Gly Val Gly Val Pro Gly Leu Gly
580 585 590

Val Gly Ala Gly Val Pro Gly Leu Gly Val Gly Ala Gly Val Pro Gly
595 600 605

Phe Gly Ala Gly Ala Asp Glu Gly Val Arg Arg Ser Leu Ser Pro Glu
610 615 620

Leu Arg Glu Gly Asp Pro Ser Ser Ser Gln His Leu Pro Ser Thr Pro
625 630 635 640

Ser Ser Pro Arg Val Pro Gly Ala Leu Ala Ala Ala Lys Ala Ala Lys
645 650 655

Tyr Gly Ala Ala Val Pro Gly Val Leu Gly Gly Leu Gly Ala Leu Gly
660 665 670

Gly Val Gly Ile Pro Gly Gly Val Val Gly Ala Gly Pro Ala Ala Ala
675 680 685

Ala Ala Ala Ala Lys Ala Ala Lys Ala Ala Gln Phe Gly Leu Val
690 695 700

Gly Ala Ala Gly Leu Gly Gly Leu Gly Val Gly Gly Leu Gly Val Pro
705 710 715 720

Gly Val Gly Gly Leu Gly Gly Ile Pro Pro Ala Ala Ala Ala Lys Ala
725 730 735

Ala Lys Tyr Gly Ala Ala Gly Leu Gly Gly Val Leu Gly Gly Ala Gly
740 745 750

Gln Phe Pro Leu Gly Gly Val Ala Ala Arg Pro Gly Phe Gly Leu Ser
755 760 765

Pro Ile Phe Pro Gly Gly Ala Cys Leu Gly Lys Ala Cys Gly Arg Lys
770 775 780

Arg Lys
785

P-2017-14468 LISTADO DE SECUENCIAS.txt

<210> 41

<211> 405

<212> PRT

<213> Homo sapiens

<400> 41

Met Ala Ala Ser Gly Lys Thr Ser Lys Ser Glu Pro Asn His Val Ile
1 5 10 15

Phe Lys Lys Ile Ser Arg Asp Lys Ser Val Thr Ile Tyr Leu Gly Asn
20 25 30

Arg Asp Tyr Ile Asp His Val Ser Gln Val Gln Pro Val Asp Gly Val
35 40 45

Val Leu Val Asp Pro Asp Leu Val Lys Gly Lys Lys Val Tyr Val Thr
50 55 60

Leu Thr Cys Ala Phe Arg Tyr Gly Gln Glu Asp Ile Asp Val Ile Gly
65 70 75 80

Leu Thr Phe Arg Arg Asp Leu Tyr Phe Ser Arg Val Gln Val Tyr Pro
85 90 95

Pro Val Gly Ala Ala Ser Thr Pro Thr Lys Leu Gln Glu Ser Leu Leu
100 105 110

Lys Lys Leu Gly Ser Asn Thr Tyr Pro Phe Leu Leu Thr Phe Pro Asp
115 120 125

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

Lys Ser Cys Gly Val Asp Phe Glu Val Lys Ala Phe Ala Thr Asp Ser
145 150 155 160

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

Leu Ile Arg Lys Val Gln His Ala Pro Leu Glu Met Gly Pro Gln Pro
180 185 190

Arg Ala Glu Ala Ala Trp Gln Phe Phe Met Ser Asp Lys Pro Leu His
195 200 205

Leu Ala Val Ser Leu Asn Lys Glu Ile Tyr Phe His Gly Glu Pro Ile
210 215 220

Pro Val Thr Val Thr Val Thr Asn Asn Thr Glu Lys Thr Val Lys Lys
225 230 235 240

Ile Lys Ala Phe Val Glu Gln Val Ala Asn Val Val Leu Tyr Ser Ser
245 250 255

P-2017-14468 LISTADO DE SECUENCIAS.txt

Asp Tyr Tyr Val Lys Pro Val Ala Met Glu Glu Ala Gln Glu Lys Val
260 265 270

Pro Pro Asn Ser Thr Leu Thr Lys Thr Leu Thr Leu Leu Pro Leu Leu
275 280 285

Ala Asn Asn Arg Glu Arg Arg Gly Ile Ala Leu Asp Gly Lys Ile Lys
290 295 300

His Glu Asp Thr Asn Leu Ala Ser Ser Thr Ile Ile Lys Glu Gly Ile
305 310 315 320

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

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

Thr Glu Val Pro Phe Arg Leu Met His Pro Gln Pro Glu Asp Pro Ala
355 360 365

Lys Glu Ser Tyr Gln Asp Ala Asn Leu Val Phe Glu Glu Phe Ala Arg
370 375 380

His Asn Leu Lys Asp Ala Gly Glu Ala Glu Glu Gly Lys Arg Asp Lys
385 390 395 400

Asn Asp Val Asp Glu
405

<210> 42
<211> 1976
<212> PRT
<213> Homo sapiens

<400> 42
Met Ala Gln Arg Thr Gly Leu Glu Asp Pro Glu Arg Tyr Leu Phe Val
1 5 10 15

Asp Arg Ala Val Ile Tyr Asn Pro Ala Thr Gln Ala Asp Trp Thr Ala
20 25 30

Lys Lys Leu Val Trp Ile Pro Ser Glu Arg His Gly Phe Glu Ala Ala
35 40 45

Ser Ile Lys Glu Glu Arg Gly Asp Glu Val Met Val Glu Leu Ala Glu
50 55 60

Asn Gly Lys Lys Ala Met Val Asn Lys Asp Asp Ile Gln Lys Met Asn
65 70 75 80

P-2017-14468 LISTADO DE SECUENCIAS.txt

Pro Pro Lys Phe Ser Lys Val Glu Asp Met Ala Glu Leu Thr Cys Leu
85 90 95

Asn Glu Ala Ser Val Leu His Asn Leu Lys Asp Arg Tyr Tyr Ser Gly
100 105 110

Leu Ile Tyr Thr Tyr Ser Gly Leu Phe Cys Val Val Ile Asn Pro Tyr
115 120 125

Lys Asn Leu Pro Ile Tyr Ser Glu Asn Ile Ile Glu Met Tyr Arg Gly
130 135 140

Lys Lys Arg His Glu Met Pro Pro His Ile Tyr Ala Ile Ser Glu Ser
145 150 155 160

Ala Tyr Arg Cys Met Leu Gln Asp Arg Glu Asp Gln Ser Ile Leu Cys
165 170 175

Thr Gly Glu Ser Gly Ala Gly Lys Thr Glu Asn Thr Lys Lys Val Ile
180 185 190

Gln Tyr Leu Ala His Val Ala Ser Ser His Lys Gly Arg Lys Asp His
195 200 205

Asn Ile Pro Gly Glu Leu Glu Arg Gln Leu Leu Gln Ala Asn Pro Ile
210 215 220

Leu Glu Ser Phe Gly Asn Ala Lys Thr Val Lys Asn Asp Asn Ser Ser
225 230 235 240

Arg Phe Gly Lys Phe Ile Arg Ile Asn Phe Asp Val Thr Gly Tyr Ile
245 250 255

Val Gly Ala Asn Ile Glu Thr Tyr Leu Leu Glu Lys Ser Arg Ala Val
260 265 270

Arg Gln Ala Lys Asp Glu Arg Thr Phe His Ile Phe Tyr Gln Leu Leu
275 280 285

Ser Gly Ala Gly Glu His Leu Lys Ser Asp Leu Leu Leu Glu Gly Phe
290 295 300

Asn Asn Tyr Arg Phe Leu Ser Asn Gly Tyr Ile Pro Ile Pro Gly Gln
305 310 315 320

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

Gly Phe Ser His Glu Glu Ile Leu Ser Met Leu Lys Val Val Ser Ser
340 345 350

P-2017-14468 LISTADO DE SECUENCIAS.txt

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

Gln Ala Ser Met Pro Glu Asn Thr Val Ala Gln Lys Leu Cys His Leu
370 375 380

Leu Gly Met Asn Val Met Glu Phe Thr Arg Ala Ile Leu Thr Pro Arg
385 390 395 400

Ile Lys Val Gly Arg Asp Tyr Val Gln Lys Ala Gln Thr Lys Glu Gln
405 410 415

Ala Asp Phe Ala Val Glu Ala Leu Ala Lys Ala Thr Tyr Glu Arg Leu
420 425 430

Phe Arg Trp Leu Val His Arg Ile Asn Lys Ala Leu Asp Arg Thr Lys
435 440 445

Arg Gln Gly Ala Ser Phe Ile Gly Ile Leu Asp Ile Ala Gly Phe Glu
450 455 460

Ile Phe Glu Leu Asn Ser Phe Glu Gln Leu Cys Ile Asn Tyr Thr Asn
465 470 475 480

Glu Lys Leu Gln Gln Leu Phe Asn His Thr Met Phe Ile Leu Glu Gln
485 490 495

Glu Glu Tyr Gln Arg Glu Gly Ile Glu Trp Asn Phe Ile Asp Phe Gly
500 505 510

Leu Asp Leu Gln Pro Cys Ile Asp Leu Ile Glu Arg Pro Ala Asn Pro
515 520 525

Pro Gly Val Leu Ala Leu Leu Asp Glu Glu Cys Trp Phe Pro Lys Ala
530 535 540

Thr Asp Lys Thr Phe Val Glu Lys Leu Val Gln Glu Gln Gly Ser His
545 550 555 560

Ser Lys Phe Gln Lys Pro Arg Gln Leu Lys Asp Lys Ala Asp Phe Cys
565 570 575

Ile Ile His Tyr Ala Gly Lys Val Asp Tyr Lys Ala Asp Glu Trp Leu
580 585 590

Met Lys Asn Met Asp Pro Leu Asn Asp Asn Val Ala Thr Leu Leu His
595 600 605

Gln Ser Ser Asp Arg Phe Val Ala Glu Leu Trp Lys Asp Val Asp Arg
610 615 620

P-2017-14468 LISTADO DE SECUENCIAS.txt

Ile	Val	Gly	Leu	Asp	Gln	Val	Thr	Gly	Met	Thr	Glu	Thr	Ala	Phe	Gly
625					630					635					640
Ser	Ala	Tyr	Lys	Thr	Lys	Lys	Gly	Met	Phe	Arg	Thr	Val	Gly	Gln	Leu
				645					650					655	
Tyr	Lys	Glu	Ser	Leu	Thr	Lys	Leu	Met	Ala	Thr	Leu	Arg	Asn	Thr	Asn
			660					665					670		
Pro	Asn	Phe	Val	Arg	Cys	Ile	Ile	Pro	Asn	His	Glu	Lys	Arg	Ala	Gly
		675					680					685			
Lys	Leu	Asp	Pro	His	Leu	Val	Leu	Asp	Gln	Leu	Arg	Cys	Asn	Gly	Val
	690					695					700				
Leu	Glu	Gly	Ile	Arg	Ile	Cys	Arg	Gln	Gly	Phe	Pro	Asn	Arg	Ile	Val
705					710					715					720
Phe	Gln	Glu	Phe	Arg	Gln	Arg	Tyr	Glu	Ile	Leu	Thr	Pro	Asn	Ala	Ile
				725					730					735	
Pro	Lys	Gly	Phe	Met	Asp	Gly	Lys	Gln	Ala	Cys	Glu	Arg	Met	Ile	Arg
			740					745					750		
Ala	Leu	Glu	Leu	Asp	Pro	Asn	Leu	Tyr	Arg	Ile	Gly	Gln	Ser	Lys	Ile
		755					760					765			
Phe	Phe	Arg	Ala	Gly	Val	Leu	Ala	His	Leu	Glu	Glu	Glu	Arg	Asp	Leu
	770					775					780				
Lys	Ile	Thr	Asp	Ile	Ile	Ile	Phe	Phe	Gln	Ala	Val	Cys	Arg	Gly	Tyr
785				790						795					800
Leu	Ala	Arg	Lys	Ala	Phe	Ala	Lys	Lys	Gln	Gln	Gln	Leu	Ser	Ala	Leu
				805					810					815	
Lys	Val	Leu	Gln	Arg	Asn	Cys	Ala	Ala	Tyr	Leu	Lys	Leu	Arg	His	Trp
			820					825					830		
Gln	Trp	Trp	Arg	Val	Phe	Thr	Lys	Val	Lys	Pro	Leu	Leu	Gln	Val	Thr
		835					840					845			
Arg	Gln	Glu	Glu	Glu	Leu	Gln	Ala	Lys	Asp	Glu	Glu	Leu	Leu	Lys	Val
	850					855					860				
Lys	Glu	Lys	Gln	Thr	Lys	Val	Glu	Gly	Glu	Leu	Glu	Glu	Met	Glu	Arg
865					870					875					880
Lys	His	Gln	Gln	Leu	Leu	Glu	Glu	Lys	Asn	Ile	Leu	Ala	Glu	Gln	Leu
				885					890					895	

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Gln Ala Glu Thr Glu Leu Phe Ala Glu Ala Glu Glu Met Arg Ala Arg
900 905 910

Leu Ala Ala Lys Lys Gln Glu Leu Glu Glu Ile Leu His Asp Leu Glu
915 920 925

Ser Arg Val Glu Glu Glu Glu Arg Asn Gln Ile Leu Gln Asn Glu
930 935 940

Lys Lys Lys Met Gln Ala His Ile Gln Asp Leu Glu Glu Gln Leu Asp
945 950 955 960

Glu Glu Glu Gly Ala Arg Gln Lys Leu Gln Leu Glu Lys Val Thr Ala
965 970 975

Glu Ala Lys Ile Lys Lys Met Glu Glu Glu Ile Leu Leu Leu Glu Asp
980 985 990

Gln Asn Ser Lys Phe Ile Lys Glu Lys Lys Leu Met Glu Asp Arg Ile
995 1000 1005

Ala Glu Cys Ser Ser Gln Leu Ala Glu Glu Glu Glu Lys Ala Lys
1010 1015 1020

Asn Leu Ala Lys Ile Arg Asn Lys Gln Glu Val Met Ile Ser Asp
1025 1030 1035

Leu Glu Glu Arg Leu Lys Lys Glu Glu Lys Thr Arg Gln Glu Leu
1040 1045 1050

Glu Lys Ala Lys Arg Lys Leu Asp Gly Glu Thr Thr Asp Leu Gln
1055 1060 1065

Asp Gln Ile Ala Glu Leu Gln Ala Gln Ile Asp Glu Leu Lys Leu
1070 1075 1080

Gln Leu Ala Lys Lys Glu Glu Glu Leu Gln Gly Ala Leu Ala Arg
1085 1090 1095

Gly Asp Asp Glu Thr Leu His Lys Asn Asn Ala Leu Lys Val Val
1100 1105 1110

Arg Glu Leu Gln Ala Gln Ile Ala Glu Leu Gln Glu Asp Phe Glu
1115 1120 1125

Ser Glu Lys Ala Ser Arg Asn Lys Ala Glu Lys Gln Lys Arg Asp
1130 1135 1140

Leu Ser Glu Glu Leu Glu Ala Leu Lys Thr Glu Leu Glu Asp Thr
1145 1150 1155

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Leu	Asp	Thr	Thr	Ala	Ala	Gln	Gln	Glu	Leu	Arg	Thr	Lys	Arg	Glu
1160						1165					1170			
Gln	Glu	Val	Ala	Glu	Leu	Lys	Lys	Ala	Leu	Glu	Glu	Glu	Thr	Lys
1175						1180					1185			
Asn	His	Glu	Ala	Gln	Ile	Gln	Asp	Met	Arg	Gln	Arg	His	Ala	Thr
1190						1195					1200			
Ala	Leu	Glu	Glu	Leu	Ser	Glu	Gln	Leu	Glu	Gln	Ala	Lys	Arg	Phe
1205						1210					1215			
Lys	Ala	Asn	Leu	Glu	Lys	Asn	Lys	Gln	Gly	Leu	Glu	Thr	Asp	Asn
1220						1225					1230			
Lys	Glu	Leu	Ala	Cys	Glu	Val	Lys	Val	Leu	Gln	Gln	Val	Lys	Ala
1235						1240					1245			
Glu	Ser	Glu	His	Lys	Arg	Lys	Lys	Leu	Asp	Ala	Gln	Val	Gln	Glu
1250						1255					1260			
Leu	His	Ala	Lys	Val	Ser	Glu	Gly	Asp	Arg	Leu	Arg	Val	Glu	Leu
1265						1270					1275			
Ala	Glu	Lys	Ala	Ser	Lys	Leu	Gln	Asn	Glu	Leu	Asp	Asn	Val	Ser
1280						1285					1290			
Thr	Leu	Leu	Glu	Glu	Ala	Glu	Lys	Lys	Gly	Ile	Lys	Phe	Ala	Lys
1295						1300					1305			
Asp	Ala	Ala	Ser	Leu	Glu	Ser	Gln	Leu	Gln	Asp	Thr	Gln	Glu	Leu
1310						1315					1320			
Leu	Gln	Glu	Glu	Thr	Arg	Gln	Lys	Leu	Asn	Leu	Ser	Ser	Arg	Ile
1325						1330					1335			
Arg	Gln	Leu	Glu	Glu	Glu	Lys	Asn	Ser	Leu	Gln	Glu	Gln	Gln	Glu
1340						1345					1350			
Glu	Glu	Glu	Glu	Ala	Arg	Lys	Asn	Leu	Glu	Lys	Gln	Val	Leu	Ala
1355						1360					1365			
Leu	Gln	Ser	Gln	Leu	Ala	Asp	Thr	Lys	Lys	Lys	Val	Asp	Asp	Asp
1370						1375					1380			
Leu	Gly	Thr	Ile	Glu	Ser	Leu	Glu	Glu	Ala	Lys	Lys	Lys	Leu	Leu
1385						1390					1395			
Lys	Asp	Ala	Glu	Ala	Leu	Ser	Gln	Arg	Leu	Glu	Glu	Lys	Ala	Leu
1400						1405					1410			

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Ala	Tyr	Asp	Lys	Leu	Glu	Lys	Thr	Lys	Asn	Arg	Leu	Gln	Gln	Glu
1415						1420					1425			
Leu	Asp	Asp	Leu	Thr	Val	Asp	Leu	Asp	His	Gln	Arg	Gln	Val	Ala
1430						1435					1440			
Ser	Asn	Leu	Glu	Lys	Lys	Gln	Lys	Lys	Phe	Asp	Gln	Leu	Leu	Ala
1445						1450					1455			
Glu	Glu	Lys	Ser	Ile	Ser	Ala	Arg	Tyr	Ala	Glu	Glu	Arg	Asp	Arg
1460						1465					1470			
Ala	Glu	Ala	Glu	Ala	Arg	Glu	Lys	Glu	Thr	Lys	Ala	Leu	Ser	Leu
1475						1480					1485			
Ala	Arg	Ala	Leu	Glu	Glu	Ala	Leu	Glu	Ala	Lys	Glu	Glu	Phe	Glu
1490						1495					1500			
Arg	Gln	Asn	Lys	Gln	Leu	Arg	Ala	Asp	Met	Glu	Asp	Leu	Met	Ser
1505						1510					1515			
Ser	Lys	Asp	Asp	Val	Gly	Lys	Asn	Val	His	Glu	Leu	Glu	Lys	Ser
1520						1525					1530			
Lys	Arg	Ala	Leu	Glu	Gln	Gln	Val	Glu	Glu	Met	Arg	Thr	Gln	Leu
1535						1540					1545			
Glu	Glu	Leu	Glu	Asp	Glu	Leu	Gln	Ala	Thr	Glu	Asp	Ala	Lys	Leu
1550						1555					1560			
Arg	Leu	Glu	Val	Asn	Met	Gln	Ala	Met	Lys	Ala	Gln	Phe	Glu	Arg
1565						1570					1575			
Asp	Leu	Gln	Thr	Arg	Asp	Glu	Gln	Asn	Glu	Glu	Lys	Lys	Arg	Leu
1580						1585					1590			
Leu	Ile	Lys	Gln	Val	Arg	Glu	Leu	Glu	Ala	Glu	Leu	Glu	Asp	Glu
1595						1600					1605			
Arg	Lys	Gln	Arg	Ala	Leu	Ala	Val	Ala	Ser	Lys	Lys	Lys	Met	Glu
1610						1615					1620			
Ile	Asp	Leu	Lys	Asp	Leu	Glu	Ala	Gln	Ile	Glu	Ala	Ala	Asn	Lys
1625						1630					1635			
Ala	Arg	Asp	Glu	Val	Ile	Lys	Gln	Leu	Arg	Lys	Leu	Gln	Ala	Gln
1640						1645					1650			
Met	Lys	Asp	Tyr	Gln	Arg	Glu	Leu	Glu	Glu	Ala	Arg	Ala	Ser	Arg
1655						1660					1665			

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Asp	Glu	Ile	Phe	Ala	Gln	Ser	Lys	Glu	Ser	Glu	Lys	Lys	Leu	Lys
1670						1675					1680			
Ser	Leu	Glu	Ala	Glu	Ile	Leu	Gln	Leu	Gln	Glu	Glu	Leu	Ala	Ser
1685						1690					1695			
Ser	Glu	Arg	Ala	Arg	Arg	His	Ala	Glu	Gln	Glu	Arg	Asp	Glu	Leu
1700						1705					1710			
Ala	Asp	Glu	Ile	Thr	Asn	Ser	Ala	Ser	Gly	Lys	Ser	Ala	Leu	Leu
1715						1720					1725			
Asp	Glu	Lys	Arg	Arg	Leu	Glu	Ala	Arg	Ile	Ala	Gln	Leu	Glu	Glu
1730						1735					1740			
Glu	Leu	Glu	Glu	Glu	Gln	Ser	Asn	Met	Glu	Leu	Leu	Asn	Asp	Arg
1745						1750					1755			
Phe	Arg	Lys	Thr	Thr	Leu	Gln	Val	Asp	Thr	Leu	Asn	Ala	Glu	Leu
1760						1765					1770			
Ala	Ala	Glu	Arg	Ser	Ala	Ala	Gln	Lys	Ser	Asp	Asn	Ala	Arg	Gln
1775						1780					1785			
Gln	Leu	Glu	Arg	Gln	Asn	Lys	Glu	Leu	Lys	Ala	Lys	Leu	Gln	Glu
1790						1795					1800			
Leu	Glu	Gly	Ala	Val	Lys	Ser	Lys	Phe	Lys	Ala	Thr	Ile	Ser	Ala
1805						1810					1815			
Leu	Glu	Ala	Lys	Ile	Gly	Gln	Leu	Glu	Glu	Gln	Leu	Glu	Gln	Glu
1820						1825					1830			
Ala	Lys	Glu	Arg	Ala	Ala	Ala	Asn	Lys	Leu	Val	Arg	Arg	Thr	Glu
1835						1840					1845			
Lys	Lys	Leu	Lys	Glu	Ile	Phe	Met	Gln	Val	Glu	Asp	Glu	Arg	Arg
1850						1855					1860			
His	Ala	Asp	Gln	Tyr	Lys	Glu	Gln	Met	Glu	Lys	Ala	Asn	Ala	Arg
1865						1870					1875			
Met	Lys	Gln	Leu	Lys	Arg	Gln	Leu	Glu	Glu	Ala	Glu	Glu	Glu	Ala
1880						1885					1890			
Thr	Arg	Ala	Asn	Ala	Ser	Arg	Arg	Lys	Leu	Gln	Arg	Glu	Leu	Asp
1895						1900					1905			
Asp	Ala	Thr	Glu	Ala	Asn	Glu	Gly	Leu	Ser	Arg	Glu	Val	Ser	Thr
1910						1915					1920			

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Leu Lys Asn Arg Leu Arg Arg Gly Gly Pro Ile Ser Phe Ser Ser
1925 1930 1935

Ser Arg Ser Gly Arg Arg Gln Leu His Leu Glu Gly Ala Ser Leu
1940 1945 1950

Glu Leu Ser Asp Asp Asp Thr Glu Ser Lys Thr Ser Asp Val Asn
1955 1960 1965

Glu Thr Gln Pro Pro Gln Ser Glu
1970 1975

<210> 43
<211> 1939
<212> PRT
<213> Homo sapiens

<400> 43
Met Thr Asp Ala Gln Met Ala Asp Phe Gly Ala Ala Ala Gln Tyr Leu
1 5 10 15

Arg Lys Ser Glu Lys Glu Arg Leu Glu Ala Gln Thr Arg Pro Phe Asp
20 25 30

Ile Arg Thr Glu Cys Phe Val Pro Asp Asp Lys Glu Glu Phe Val Lys
35 40 45

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

Asn Gly Lys Thr Val Thr Val Lys Glu Asp Gln Val Leu Gln Gln Asn
65 70 75 80

Pro Pro Lys Phe Asp Lys Ile Glu Asp Met Ala Met Leu Thr Phe Leu
85 90 95

His Glu Pro Ala Val Leu Phe Asn Leu Lys Glu Arg Tyr Ala Ala Trp
100 105 110

Met Ile Tyr Thr Tyr Ser Gly Leu Phe Cys Val Thr Val Asn Pro Tyr
115 120 125

Lys Trp Leu Pro Val Tyr Asn Ala Glu Val Val Ala Ala Tyr Arg Gly
130 135 140

Lys Lys Arg Ser Glu Ala Pro Pro His Ile Phe Ser Ile Ser Asp Asn
145 150 155 160

Ala Tyr Gln Tyr Met Leu Thr Asp Arg Glu Asn Gln Ser Ile Leu Ile
165 170 175

Thr Gly Glu Ser Gly Ala Gly Lys Thr Val Asn Thr Lys Arg Val Ile
180 185 190

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Gln Tyr Phe Ala Ser Ile Ala Ala Ile Gly Asp Arg Gly Lys Lys Asp
195 200 205

Asn Ala Asn Ala Asn Lys Gly Thr Leu Glu Asp Gln Ile Ile Gln Ala
210 215 220

Asn Pro Ala Leu Glu Ala Phe Gly Asn Ala Lys Thr Val Arg Asn Asp
225 230 235 240

Asn Ser Ser Arg Phe Gly Lys Phe Ile Arg Ile His Phe Gly Ala Thr
245 250 255

Gly Lys Leu Ala Ser Ala Asp Ile Glu Thr Tyr Leu Leu Glu Lys Ser
260 265 270

Arg Val Ile Phe Gln Leu Lys Ala Glu Arg Asn Tyr His Ile Phe Tyr
275 280 285

Gln Ile Leu Ser Asn Lys Lys Pro Glu Leu Leu Asp Met Leu Leu Val
290 295 300

Thr Asn Asn Pro Tyr Asp Tyr Ala Phe Val Ser Gln Gly Glu Val Ser
305 310 315 320

Val Ala Ser Ile Asp Asp Ser Glu Glu Leu Met Ala Thr Asp Ser Ala
325 330 335

Phe Asp Val Leu Gly Phe Thr Ser Glu Glu Lys Ala Gly Val Tyr Lys
340 345 350

Leu Thr Gly Ala Ile Met His Tyr Gly Asn Met Lys Phe Lys Gln Lys
355 360 365

Gln Arg Glu Glu Gln Ala Glu Pro Asp Gly Thr Glu Asp Ala Asp Lys
370 375 380

Ser Ala Tyr Leu Met Gly Leu Asn Ser Ala Asp Leu Leu Lys Gly Leu
385 390 395 400

Cys His Pro Arg Val Lys Val Gly Asn Glu Tyr Val Thr Lys Gly Gln
405 410 415

Ser Val Gln Gln Val Tyr Tyr Ser Ile Gly Ala Leu Ala Lys Ala Val
420 425 430

Tyr Glu Lys Met Phe Asn Trp Met Val Thr Arg Ile Asn Ala Thr Leu
435 440 445

Glu Thr Lys Gln Pro Arg Gln Tyr Phe Ile Gly Val Leu Asp Ile Ala
450 455 460

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Gly 465	Phe	Glu	Ile	Phe	Asp 470	Phe	Asn	Ser	Phe	Glu 475	Gln	Leu	Cys	Ile	Asn 480
Phe	Thr	Asn	Glu	Lys 485	Leu	Gln	Gln	Phe	Phe 490	Asn	His	His	Met	Phe 495	Val
Leu	Glu	Gln	Glu 500	Glu	Tyr	Lys	Lys	Glu 505	Gly	Ile	Glu	Trp	Thr 510	Phe	Ile
Asp	Phe	Gly 515	Met	Asp	Leu	Gln	Ala 520	Cys	Ile	Asp	Leu	Ile 525	Glu	Lys	Pro
Met	Gly 530	Ile	Met	Ser	Ile	Leu 535	Glu	Glu	Glu	Cys	Met 540	Phe	Pro	Lys	Ala
Thr 545	Asp	Met	Thr	Phe	Lys 550	Ala	Lys	Leu	Tyr	Asp 555	Asn	His	Leu	Gly	Lys 560
Ser	Asn	Asn	Phe	Gln 565	Lys	Pro	Arg	Asn	Ile 570	Lys	Gly	Lys	Pro	Glu 575	Ala
His	Phe	Ser	Leu 580	Ile	His	Tyr	Ala	Gly 585	Thr	Val	Asp	Tyr	Asn 590	Ile	Leu
Gly	Trp	Leu 595	Glu	Lys	Asn	Lys	Asp 600	Pro	Leu	Asn	Glu	Thr 605	Val	Val	Gly
Leu 610	Tyr	Gln	Lys	Ser	Ser	Leu 615	Lys	Leu	Met	Ala	Thr 620	Leu	Phe	Ser	Ser
Tyr 625	Ala	Thr	Ala	Asp	Thr 630	Gly	Asp	Ser	Gly	Lys 635	Ser	Lys	Gly	Gly	Lys 640
Lys	Lys	Gly	Ser	Ser 645	Phe	Gln	Thr	Val	Ser 650	Ala	Leu	His	Arg	Glu 655	Asn
Leu	Asn	Lys	Leu 660	Met	Thr	Asn	Leu	Arg 665	Thr	Thr	His	Pro	His 670	Phe	Val
Arg	Cys	Ile 675	Ile	Pro	Asn	Glu	Arg 680	Lys	Ala	Pro	Gly	Val 685	Met	Asp	Asn
Pro 690	Leu	Val	Met	His	Gln	Leu 695	Arg	Cys	Asn	Gly	Val 700	Leu	Glu	Gly	Ile
Arg 705	Ile	Cys	Arg	Lys	Gly 710	Phe	Pro	Asn	Arg	Ile 715	Leu	Tyr	Gly	Asp	Phe 720
Arg	Gln	Arg	Tyr	Arg 725	Ile	Leu	Asn	Pro	Val 730	Ala	Ile	Pro	Glu	Gly 735	Gln

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Phe Ile Asp Ser Arg Lys Gly Ala Glu Lys Leu Leu Ser Ser Leu Asp
740 745 750

Ile Asp His Asn Gln Tyr Lys Phe Gly His Thr Lys Val Phe Phe Lys
755 760 765

Ala Gly Leu Leu Gly Leu Leu Glu Glu Met Arg Asp Glu Arg Leu Ser
770 775 780

Arg Ile Ile Thr Arg Ile Gln Ala Gln Ala Arg Gly Gln Leu Met Arg
785 790 795 800

Ile Glu Phe Lys Lys Ile Val Glu Arg Arg Asp Ala Leu Leu Val Ile
805 810 815

Gln Trp Asn Ile Arg Ala Phe Met Gly Val Lys Asn Trp Pro Trp Met
820 825 830

Lys Leu Tyr Phe Lys Ile Lys Pro Leu Leu Lys Ser Ala Glu Thr Glu
835 840 845

Lys Glu Met Ala Thr Met Lys Glu Glu Phe Gly Arg Ile Lys Glu Thr
850 855 860

Leu Glu Lys Ser Glu Ala Arg Arg Lys Glu Leu Glu Glu Lys Met Val
865 870 875 880

Ser Leu Leu Gln Glu Lys Asn Asp Leu Gln Leu Gln Val Gln Ala Glu
885 890 895

Gln Asp Asn Leu Asn Asp Ala Glu Glu Arg Cys Asp Gln Leu Ile Lys
900 905 910

Asn Lys Ile Gln Leu Glu Ala Lys Val Lys Glu Met Asn Glu Arg Leu
915 920 925

Glu Asp Glu Glu Glu Met Asn Ala Glu Leu Thr Ala Lys Lys Arg Lys
930 935 940

Leu Glu Asp Glu Cys Ser Glu Leu Lys Lys Asp Ile Asp Asp Leu Glu
945 950 955 960

Leu Thr Leu Ala Lys Val Glu Lys Glu Lys His Ala Thr Glu Asn Lys
965 970 975

Val Lys Asn Leu Thr Glu Glu Met Ala Gly Leu Asp Glu Ile Ile Ala
980 985 990

Lys Leu Thr Lys Glu Lys Lys Ala Leu Gln Glu Ala His Gln Gln Ala
995 1000 1005

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Leu	Asp	Asp	Leu	Gln	Ala	Glu	Glu	Asp	Lys	Val	Asn	Thr	Leu	Ser
1010						1015					1020			
Lys	Ser	Lys	Val	Lys	Leu	Glu	Gln	Gln	Val	Asp	Asp	Leu	Glu	Gly
1025						1030					1035			
Ser	Leu	Glu	Gln	Glu	Lys	Lys	Val	Arg	Met	Asp	Leu	Glu	Arg	Ala
1040						1045					1050			
Lys	Arg	Lys	Leu	Glu	Gly	Asp	Leu	Lys	Leu	Thr	Gln	Glu	Ser	Ile
1055						1060					1065			
Met	Asp	Leu	Glu	Asn	Asp	Lys	Leu	Gln	Leu	Glu	Glu	Lys	Leu	Lys
1070						1075					1080			
Lys	Lys	Glu	Phe	Asp	Ile	Asn	Gln	Gln	Asn	Ser	Lys	Ile	Glu	Asp
1085						1090					1095			
Glu	Gln	Val	Leu	Ala	Leu	Gln	Leu	Gln	Lys	Lys	Leu	Lys	Glu	Asn
1100						1105					1110			
Gln	Ala	Arg	Ile	Glu	Glu	Leu	Glu	Glu	Glu	Leu	Glu	Ala	Glu	Arg
1115						1120					1125			
Thr	Ala	Arg	Ala	Lys	Val	Glu	Lys	Leu	Arg	Ser	Asp	Leu	Ser	Arg
1130						1135					1140			
Glu	Leu	Glu	Glu	Ile	Ser	Glu	Arg	Leu	Glu	Glu	Ala	Gly	Gly	Ala
1145						1150					1155			
Thr	Ser	Val	Gln	Ile	Glu	Met	Asn	Lys	Lys	Arg	Glu	Ala	Glu	Phe
1160						1165					1170			
Gln	Lys	Met	Arg	Arg	Asp	Leu	Glu	Glu	Ala	Thr	Leu	Gln	His	Glu
1175						1180					1185			
Ala	Thr	Ala	Ala	Ala	Leu	Arg	Lys	Lys	His	Ala	Asp	Ser	Val	Ala
1190						1195					1200			
Glu	Leu	Gly	Glu	Gln	Ile	Asp	Asn	Leu	Gln	Arg	Val	Lys	Gln	Lys
1205						1210					1215			
Leu	Glu	Lys	Glu	Lys	Ser	Glu	Phe	Lys	Leu	Glu	Leu	Asp	Asp	Val
1220						1225					1230			
Thr	Ser	Asn	Met	Glu	Gln	Ile	Ile	Lys	Ala	Lys	Ala	Asn	Leu	Glu
1235						1240					1245			
Lys	Val	Ser	Arg	Thr	Leu	Glu	Asp	Gln	Ala	Asn	Glu	Tyr	Arg	Val
1250						1255					1260			

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Lys	Leu	Glu	Glu	Ala	Gln	Arg	Ser	Leu	Asn	Asp	Phe	Thr	Thr	Gln
1265						1270					1275			
Arg	Ala	Lys	Leu	Gln	Thr	Glu	Asn	Gly	Glu	Leu	Ser	Arg	Gln	Leu
1280						1285					1290			
Glu	Glu	Lys	Glu	Ala	Leu	Ile	Ser	Gln	Leu	Thr	Arg	Gly	Lys	Leu
1295						1300					1305			
Ser	Tyr	Thr	Gln	Gln	Met	Glu	Asp	Leu	Lys	Arg	Gln	Leu	Glu	Glu
1310						1315					1320			
Glu	Gly	Lys	Ala	Lys	Asn	Ala	Leu	Ala	His	Ala	Leu	Gln	Ser	Ala
1325						1330					1335			
Arg	His	Asp	Cys	Asp	Leu	Leu	Arg	Glu	Gln	Tyr	Glu	Glu	Glu	Thr
1340						1345					1350			
Glu	Ala	Lys	Ala	Glu	Leu	Gln	Arg	Val	Leu	Ser	Lys	Ala	Asn	Ser
1355						1360					1365			
Glu	Val	Ala	Gln	Cys	Arg	Thr	Lys	Tyr	Glu	Thr	Asp	Ala	Ile	Gln
1370						1375					1380			
Arg	Thr	Glu	Glu	Leu	Glu	Glu	Ala	Lys	Lys	Lys	Leu	Ala	Gln	Arg
1385						1390					1395			
Leu	Gln	Asp	Ala	Glu	Glu	Ala	Val	Glu	Ala	Val	Asn	Ala	Lys	Cys
1400						1405					1410			
Ser	Ser	Leu	Glu	Lys	Thr	Lys	His	Arg	Leu	Gln	Asn	Glu	Ile	Glu
1415						1420					1425			
Asp	Leu	Met	Val	Asp	Val	Glu	Arg	Ser	Asn	Ala	Ala	Ala	Ala	Ala
1430						1435					1440			
Leu	Asp	Lys	Lys	Gln	Arg	Asn	Phe	Asp	Lys	Ile	Leu	Ala	Glu	Trp
1445						1450					1455			
Lys	Gln	Lys	Tyr	Glu	Glu	Ser	Gln	Ser	Glu	Leu	Glu	Ser	Ser	Gln
1460						1465					1470			
Lys	Glu	Ala	Arg	Ser	Leu	Ser	Thr	Glu	Leu	Phe	Lys	Leu	Lys	Asn
1475						1480					1485			
Ala	Tyr	Glu	Glu	Ser	Leu	Glu	His	Leu	Glu	Thr	Phe	Lys	Arg	Glu
1490						1495					1500			
Asn	Lys	Asn	Leu	Gln	Glu	Glu	Ile	Ser	Asp	Leu	Thr	Glu	Gln	Leu
1505						1510					1515			

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Gly	Glu	Gly	Gly	Lys	Asn	Val	His	Glu	Leu	Glu	Lys	Val	Arg	Lys
1520						1525					1530			
Gln	Leu	Glu	Val	Glu	Lys	Leu	Glu	Leu	Gln	Ser	Ala	Leu	Glu	Glu
1535						1540					1545			
Ala	Glu	Ala	Ser	Leu	Glu	His	Glu	Glu	Gly	Lys	Ile	Leu	Arg	Ala
1550						1555					1560			
Gln	Leu	Glu	Phe	Asn	Gln	Ile	Lys	Ala	Glu	Ile	Glu	Arg	Lys	Leu
1565						1570					1575			
Ala	Glu	Lys	Asp	Glu	Glu	Met	Glu	Gln	Ala	Lys	Arg	Asn	His	Gln
1580						1585					1590			
Arg	Val	Val	Asp	Ser	Leu	Gln	Thr	Ser	Leu	Asp	Ala	Glu	Thr	Arg
1595						1600					1605			
Ser	Arg	Asn	Glu	Val	Leu	Arg	Val	Lys	Lys	Lys	Met	Glu	Gly	Asp
1610						1615					1620			
Leu	Asn	Glu	Met	Glu	Ile	Gln	Leu	Ser	His	Ala	Asn	Arg	Met	Ala
1625						1630					1635			
Ala	Glu	Ala	Gln	Lys	Gln	Val	Lys	Ser	Leu	Gln	Ser	Leu	Leu	Lys
1640						1645					1650			
Asp	Thr	Gln	Ile	Gln	Leu	Asp	Asp	Ala	Val	Arg	Ala	Asn	Asp	Asp
1655						1660					1665			
Leu	Lys	Glu	Asn	Ile	Ala	Ile	Val	Glu	Arg	Arg	Asn	Asn	Leu	Leu
1670						1675					1680			
Gln	Ala	Glu	Leu	Glu	Glu	Leu	Arg	Ala	Val	Val	Glu	Gln	Thr	Glu
1685						1690					1695			
Arg	Ser	Arg	Lys	Leu	Ala	Asp	Arg	Glu	Leu	Ile	Glu	Thr	Ser	Glu
1700						1705					1710			
Arg	Val	Gln	Leu	Leu	His	Ser	Gln	Asn	Thr	Ser	Leu	Ile	Asn	Gln
1715						1720					1725			
Lys	Lys	Lys	Met	Asp	Ala	Asp	Leu	Ser	Gln	Leu	Gln	Ser	Glu	Val
1730						1735					1740			
Glu	Glu	Ala	Val	Gln	Glu	Cys	Arg	Asn	Ala	Glu	Glu	Lys	Ala	Lys
1745						1750					1755			
Lys	Ala	Ile	Thr	His	Ala	Ala	Met	Met	Ala	Glu	Glu	Leu	Lys	Lys
1760						1765					1770			

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Glu Gln Asp Thr Ser Ala His Leu Glu Arg Met Lys Lys Asn Met
1775 1780 1785

Glu Gln Thr Ile Lys Asp Leu Gln His Arg Leu Asp Glu Ala Glu
1790 1795 1800

Gln Ile Ala Leu Lys Gly Gly Lys Lys Gln Leu Gln Lys Leu Glu
1805 1810 1815

Ala Arg Val Arg Glu Leu Glu Gly Glu Leu Glu Ala Glu Gln Lys
1820 1825 1830

Arg Asn Ala Glu Ser Val Lys Gly Met Arg Lys Ser Glu Arg Arg
1835 1840 1845

Ile Lys Glu Leu Thr Tyr Gln Thr Glu Glu Asp Lys Lys Asn Leu
1850 1855 1860

Leu Arg Leu Gln Asp Leu Val Asp Lys Leu Gln Leu Lys Val Lys
1865 1870 1875

Ala Tyr Lys Arg Gln Ala Glu Glu Ala Glu Glu Gln Ala Asn Thr
1880 1885 1890

Asn Leu Ser Lys Phe Arg Lys Val Gln His Glu Leu Asp Glu Ala
1895 1900 1905

Glu Glu Arg Ala Asp Ile Ala Glu Ser Gln Val Asn Lys Leu Arg
1910 1915 1920

Ala Lys Ser Arg Asp Ile Gly Ala Lys Gln Lys Met His Asp Glu
1925 1930 1935

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Gly Ala Asp Ala Arg Ala Leu Met Leu Gln Gly Val Asp Leu Leu Ala
35 40 45

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Asp Ala Val Ala Val Thr Met Gly Pro Lys Gly Arg Thr Val Ile Ile
50 55 60

Glu Gln Ser Trp Gly Ser Pro Lys Val Thr Lys Asp Gly Val Thr Val
65 70 75 80

Ala Lys Ser Ile Asp Leu Lys Asp Lys Tyr Lys Asn Ile Gly Ala Lys
85 90 95

Leu Val Gln Asp Val Ala Asn Asn Thr Asn Glu Glu Ala Gly Asp Gly
100 105 110

Thr Thr Thr Ala Thr Val Leu Ala Arg Ser Ile Ala Lys Glu Gly Phe
115 120 125

Glu Lys Ile Ser Lys Gly Ala Asn Pro Val Glu Ile Arg Arg Gly Val
130 135 140

Met Leu Ala Val Asp Ala Val Ile Ala Glu Leu Lys Lys Gln Ser Lys
145 150 155 160

Pro Val Thr Thr Pro Glu Glu Ile Ala Gln Val Ala Thr Ile Ser Ala
165 170 175

Asn Gly Asp Lys Glu Ile Gly Asn Ile Ile Ser Asp Ala Met Lys Lys
180 185 190

Val Gly Arg Lys Gly Val Ile Thr Val Lys Asp Gly Lys Thr Leu Asn
195 200 205

Asp Glu Leu Glu Ile Ile Glu Gly Met Lys Phe Asp Arg Gly Tyr Ile
210 215 220

Ser Pro Tyr Phe Ile Asn Thr Ser Lys Gly Gln Lys Cys Glu Phe Gln
225 230 235 240

Asp Ala Tyr Val Leu Leu Ser Glu Lys Lys Ile Ser Ser Ile Gln Ser
245 250 255

Ile Val Pro Ala Leu Glu Ile Ala Asn Ala His Arg Lys Pro Leu Val
260 265 270

Ile Ile Ala Glu Asp Val Asp Gly Glu Ala Leu Ser Thr Leu Val Leu
275 280 285

Asn Arg Leu Lys Val Gly Leu Gln Val Val Ala Val Lys Ala Pro Gly
290 295 300

Phe Gly Asp Asn Arg Lys Asn Gln Leu Lys Asp Met Ala Ile Ala Thr
305 310 315 320

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Gly Gly Ala Val Phe Gly Glu Glu Gly Leu Thr Leu Asn Leu Glu Asp
325 330 335

Val Gln Pro His Asp Leu Gly Lys Val Gly Glu Val Ile Val Thr Lys
340 345 350

Asp Asp Ala Met Leu Leu Lys Gly Lys Gly Asp Lys Ala Gln Ile Glu
355 360 365

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

Tyr Glu Lys Glu Lys Leu Asn Glu Arg Leu Ala Lys Leu Ser Asp Gly
385 390 395 400

Val Ala Val Leu Lys Val Gly Gly Thr Ser Asp Val Glu Val Asn Glu
405 410 415

Lys Lys Asp Arg Val Thr Asp Ala Leu Asn Ala Thr Arg Ala Ala Val
420 425 430

Glu Glu Gly Ile Val Leu Gly Gly Gly Cys Ala Leu Leu Arg Cys Ile
435 440 445

Pro Ala Leu Asp Ser Leu Thr Pro Ala Asn Glu Asp Gln Lys Ile Gly
450 455 460

Ile Glu Ile Ile Lys Arg Thr Leu Lys Ile Pro Ala Met Thr Ile Ala
465 470 475 480

Lys Asn Ala Gly Val Glu Gly Ser Leu Ile Val Glu Lys Ile Met Gln
485 490 495

Ser Ser Ser Glu Val Gly Tyr Asp Ala Met Ala Gly Asp Phe Val Asn
500 505 510

Met Val Glu Lys Gly Ile Ile Asp Pro Thr Lys Val Val Arg Thr Ala
515 520 525

Leu Leu Asp Ala Ala Gly Val Ala Ser Leu Leu Thr Thr Ala Glu Val
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Met Gly Gly Met Gly Gly Gly Met Gly Gly Met Phe
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Asn

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