

2019-18999 Traducción listado secuencias.txt
LISTADO DE SECUENCIAS

<110> Regeneron Pharmaceuticals, Inc.
Gromada, Jesper
Stavis, Panayiotis
Altarejos, Judith

<120> PROTEÍNAS DE UNIÓN A ANTÍGENO QUE ANTAGONIZAN EL RECEPTOR DE LEPTINA

<130> 10271W001

<140> TBD

<141> 2017-11-08

<150> 62/419,062

<151> 2016-11-08

<160> 95

<170> PatentIn version 3.5

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

Trp Ile Gly Asn Ile Tyr Tyr Ser Gly Ser Thr Asn Tyr Asn Pro Ser
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Leu Lys Ser Arg Val Thr Ile Ser Ile Asp Thr Ser Lys Ser Gln Phe
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Ser Leu Lys Leu Arg Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
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Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr
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Leu Glu Met Asn Arg Leu Arg Asp Glu Asp Thr Ala Val Tyr Tyr Cys
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Lys Gly Arg Phe Thr Val Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr
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Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
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Leu Gln Met Asn Asn Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
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Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Phe
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Leu Gln Met Gly Ser Leu Lys Thr Glu Asp Met Ala Val Tyr Tyr Cys
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Ala Arg Asp Leu Phe Leu Glu Trp Leu Phe His Gly Phe Asp Ile Trp
100 105 110

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

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 Gly Phe Thr Phe Ser Ser Tyr Gly
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 <400> 70
 Ile Asn His Asn Gly Gly Ser Lys
 1 5
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 <211> 15
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 Ala Arg Asp Leu Phe Leu Glu Trp Leu Phe His Gly Phe Asp Ile
 1 5 10 15
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 <211> 357
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 <400> 73
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 acctgttctg tctctggtgg ctccataaac actggttctt acttctggac ttggatccgc 120
 cagcaccagc gggagggcct ggagtggatt ggggtacatct attacaatgg agacacctac 180
 tacaatccgt ccctcaagag tcgagttacc ttatcactag acacgtctaa gaaccagttc 240
 tccctgaagc tgaactctct gactgccggg gacacggccg tttattactg tgcgagaagt 300
 gactggaact ccctttttga cactggggc caggggaccc tggtcaccgt ctctca 357
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<400> 74

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

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

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

Leu Lys Ser Arg Val Thr Leu Ser Leu Asp Thr Ser Lys Asn Gln Phe
 65 70 75 80

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

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

Thr Leu Val Thr Val Ser Ser
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<400> 78
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 1 5

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Ala Arg Ser Asp Trp Asn Ser Leu Phe Asp His
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<210> 81

<211> 324

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<400> 81

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ctctcctgca gggccagtca gagtgttagc agcagctact tagcctggta ccagcagaaa 120

cctggccagg ctcccaggct cctcatctat ggtgcatcca gcagggccac tggcatccca 180

gacaggttca gtggcagtgg gtctgggaca gacttcactc tcaccatcag cagactggag 240

cctgaagatt ttgcagtgtg ttactgtcag cagtatggta gctcaccttg gacgttcggc 300

caagggacca aggtggaaat caaa 324

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<211> 108

<212> PRT

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<223> sintética

<400> 82

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

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

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

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

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

Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
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<400> 84

Gln Ser Val Ser Ser Ser Tyr
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<210> 85

<211> 9

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<210> 86
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<400> 86

Gly Ala Ser
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Gln Gln Tyr Gly Ser Ser Pro Trp Thr
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<211> 1165
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<400> 89

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

Cys Cys Glu Cys Leu Val Pro Val Pro Thr Ala Lys Leu Asn Asp Thr
 195 200 205
 Leu Leu Met Cys Leu Lys Ile Thr Ser Gly Gly Val Ile Phe Gln Ser
 210 215 220
 Pro Leu Met Ser Val Gln Pro Ile Asn Met Val Lys Pro Asp Pro Pro
 225 230 235 240
 Leu Gly Leu His Met Glu Ile Thr Asp Asp Gly Asn Leu Lys Ile Ser
 245 250 255
 Trp Ser Ser Pro Pro Leu Val Pro Phe Pro Leu Gln Tyr Gln Val Lys
 260 265 270
 Tyr Ser Glu Asn Ser Thr Thr Val Ile Arg Glu Ala Asp Lys Ile Val
 275 280 285
 Ser Ala Thr Ser Leu Leu Val Asp Ser Ile Leu Pro Gly Ser Ser Tyr
 290 295 300
 Glu Val Gln Val Arg Gly Lys Arg Leu Asp Gly Pro Gly Ile Trp Ser
 305 310 315 320
 Asp Trp Ser Thr Pro Arg Val Phe Thr Thr Gln Asp Val Ile Tyr Phe
 325 330 335
 Pro Pro Lys Ile Leu Thr Ser Val Gly Ser Asn Val Ser Phe His Cys
 340 345 350
 Ile Tyr Lys Lys Glu Asn Lys Ile Val Pro Ser Lys Glu Ile Val Trp
 355 360 365
 Trp Met Asn Leu Ala Glu Lys Ile Pro Gln Ser Gln Tyr Asp Val Val
 370 375 380
 Ser Asp His Val Ser Lys Val Thr Phe Phe Asn Leu Asn Glu Thr Lys
 385 390 395 400
 Pro Arg Gly Lys Phe Thr Tyr Asp Ala Val Tyr Cys Cys Asn Glu His
 405 410 415
 Glu Cys His His Arg Tyr Ala Glu Leu Tyr Val Ile Asp Val Asn Ile
 420 425 430
 Asn Ile Ser Cys Glu Thr Asp Gly Tyr Leu Thr Lys Met Thr Cys Arg
 435 440 445
 Trp Ser Thr Ser Thr Ile Gln Ser Leu Ala Glu Ser Thr Leu Gln Leu
 450 455 460
 Arg Tyr His Arg Ser Ser Leu Tyr Cys Ser Asp Ile Pro Ser Ile His
 465 470 475 480
 Pro Ile Ser Glu Pro Lys Asp Cys Tyr Leu Gln Ser Asp Gly Phe Tyr
 485 490 495
 Glu Cys Ile Phe Gln Pro Ile Phe Leu Leu Ser Gly Tyr Thr Met Trp
 500 505 510
 Ile Arg Ile Asn His Ser Leu Gly Ser Leu Asp Ser Pro Pro Thr Cys
 515 520 525
 Val Leu Pro Asp Ser Val Val Lys Pro Leu Pro Pro Ser Ser Val Lys
 530 535 540
 Ala Glu Ile Thr Ile Asn Ile Gly Leu Leu Lys Ile Ser Trp Glu Lys
 545 550 555 560
 Pro Val Phe Pro Glu Asn Asn Leu Gln Phe Gln Ile Arg Tyr Gly Leu
 565 570 575
 Ser Gly Lys Glu Val Gln Trp Lys Met Tyr Glu Val Tyr Asp Ala Lys
 580 585 590
 Ser Lys Ser Val Ser Leu Pro Val Pro Asp Leu Cys Ala Val Tyr Ala
 595 600 605

Val Gln Val Arg Cys Lys Arg Leu Asp Gly Leu Gly Tyr Trp Ser Asn
 610 615 620
 Trp Ser Asn Pro Ala Tyr Thr Val Val Met Asp Ile Lys Val Pro Met
 625 630 635 640
 Arg Gly Pro Glu Phe Trp Arg Ile Ile Asn Gly Asp Thr Met Lys Lys
 645 650 655
 Glu Lys Asn Val Thr Leu Leu Trp Lys Pro Leu Met Lys Asn Asp Ser
 660 665 670
 Leu Cys Ser Val Gln Arg Tyr Val Ile Asn His His Thr Ser Cys Asn
 675 680 685
 Gly Thr Trp Ser Glu Asp Val Gly Asn His Thr Lys Phe Thr Phe Leu
 690 695 700
 Trp Thr Glu Gln Ala His Thr Val Thr Val Leu Ala Ile Asn Ser Ile
 705 710 715 720
 Gly Ala Ser Val Ala Asn Phe Asn Leu Thr Phe Ser Trp Pro Met Ser
 725 730 735
 Lys Val Asn Ile Val Gln Ser Leu Ser Ala Tyr Pro Leu Asn Ser Ser
 740 745 750
 Cys Val Ile Val Ser Trp Ile Leu Ser Pro Ser Asp Tyr Lys Leu Met
 755 760 765
 Tyr Phe Ile Ile Glu Trp Lys Asn Leu Asn Glu Asp Gly Glu Ile Lys
 770 775 780
 Trp Leu Arg Ile Ser Ser Ser Val Lys Lys Tyr Tyr Ile His Asp His
 785 790 795 800
 Phe Ile Pro Ile Glu Lys Tyr Gln Phe Ser Leu Tyr Pro Ile Phe Met
 805 810 815
 Glu Gly Val Gly Lys Pro Lys Ile Ile Asn Ser Phe Thr Gln Asp Asp
 820 825 830
 Ile Glu Lys His Gln Ser Asp Ala Gly Leu Tyr Val Ile Val Pro Val
 835 840 845
 Ile Ile Ser Ser Ser Ile Leu Leu Leu Gly Thr Leu Leu Ile Ser His
 850 855 860
 Gln Arg Met Lys Lys Leu Phe Trp Glu Asp Val Pro Asn Pro Lys Asn
 865 870 875 880
 Cys Ser Trp Ala Gln Gly Leu Asn Phe Gln Lys Pro Glu Thr Phe Glu
 885 890 895
 His Leu Phe Ile Lys His Thr Ala Ser Val Thr Cys Gly Pro Leu Leu
 900 905 910
 Leu Glu Pro Glu Thr Ile Ser Glu Asp Ile Ser Val Asp Thr Ser Trp
 915 920 925
 Lys Asn Lys Asp Glu Met Met Pro Thr Thr Val Val Ser Leu Leu Ser
 930 935 940
 Thr Thr Asp Leu Glu Lys Gly Ser Val Cys Ile Ser Asp Gln Phe Asn
 945 950 955 960
 Ser Val Asn Phe Ser Glu Ala Glu Gly Thr Glu Val Thr Tyr Glu Asp
 965 970 975
 Glu Ser Gln Arg Gln Pro Phe Val Lys Tyr Ala Thr Leu Ile Ser Asn
 980 985 990
 Ser Lys Pro Ser Glu Thr Gly Glu Glu Gln Gly Leu Ile Asn Ser Ser
 995 1000 1005
 Val Thr Lys Cys Phe Ser Ser Lys Asn Ser Pro Leu Lys Asp Ser

1010 1015 1020
Phe Ser Asn Ser Ser Trp Glu Ile Glu Ala Gln Ala Phe Phe Ile
1025 1030 1035
Leu Ser Asp Gln His Pro Asn Ile Ile Ser Pro His Leu Thr Phe
1040 1045 1050
Ser Glu Gly Leu Asp Glu Leu Leu Lys Leu Glu Gly Asn Phe Pro
1055 1060 1065
Glu Glu Asn Asn Asp Lys Lys Ser Ile Tyr Tyr Leu Gly Val Thr
1070 1075 1080
Ser Ile Lys Lys Arg Glu Ser Gly Val Leu Leu Thr Asp Lys Ser
1085 1090 1095
Arg Val Ser Cys Pro Phe Pro Ala Pro Cys Leu Phe Thr Asp Ile
1100 1105 1110
Arg Val Leu Gln Asp Ser Cys Ser His Phe Val Glu Asn Asn Ile
1115 1120 1125
Asn Leu Gly Thr Ser Ser Lys Lys Thr Phe Ala Ser Tyr Met Pro
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Gln Phe Gln Thr Cys Ser Thr Gln Thr His Lys Ile Met Glu Asn
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Lys Met Cys Asp Leu Thr Val
1160 1165

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<211> 846
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etiqueta de myc-myc-hexahistidina

<400> 90

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

195

200

205

Gln Pro Ile Asn Met Val Lys Pro Asp Pro Pro Leu Gly Leu His Met
210 215 220

Glu Ile Thr Asp Asp Gly Asn Leu Lys Ile Ser Trp Ser Ser Pro Pro
225 230 235 240

Leu Val Pro Phe Pro Leu Gln Tyr Gln Val Lys Tyr Ser Glu Asn Ser
245 250 255

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

Leu Val Asp Ser Ile Leu Pro Gly Ser Ser Tyr Glu Val Gln Val Arg
275 280 285

Gly Lys Arg Leu Asp Gly Pro Gly Ile Trp Ser Asp Trp Ser Thr Pro
290 295 300

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

Thr Ser Val Gly Ser Asn Val Ser Phe His Cys Ile Tyr Lys Lys Glu
325 330 335

Asn Lys Ile Val Pro Ser Lys Glu Ile Val Trp Trp Met Asn Leu Ala
340 345 350

Glu Lys Ile Pro Gln Ser Gln Tyr Asp Val Val Ser Asp His Val Ser
355 360 365

Lys Val Thr Phe Phe Asn Leu Asn Glu Thr Lys Pro Arg Gly Lys Phe
370 375 380

Thr Tyr Asp Ala Val Tyr Cys Cys Asn Glu His Glu Cys His His Arg
385 390 395 400

Tyr Ala Glu Leu Tyr Val Ile Asp Val Asn Ile Asn Ile Ser Cys Glu
405 410 415

Thr Asp Gly Tyr Leu Thr Lys Met Thr Cys Arg Trp Ser Thr Ser Thr
420 425 430

Ile Gln Ser Leu Ala Glu Ser Thr Leu Gln Leu Arg Tyr His Arg Ser
435 440 445

Ser Leu Tyr Cys Ser Asp Ile Pro Ser Ile His Pro Ile Ser Glu Pro
450 455 460

Lys Asp Cys Tyr Leu Gln Ser Asp Gly Phe Tyr Glu Cys Ile Phe Gln
465 470 475 480

Pro Ile Phe Leu Leu Ser Gly Tyr Thr Met Trp Ile Arg Ile Asn His
485 490 495

Ser Leu Gly Ser Leu Asp Ser Pro Pro Thr Cys Val Leu Pro Asp Ser
500 505 510

Val Val Lys Pro Leu Pro Pro Ser Ser Val Lys Ala Glu Ile Thr Ile
515 520 525

Asn Ile Gly Leu Leu Lys Ile Ser Trp Glu Lys Pro Val Phe Pro Glu
530 535 540

Asn Asn Leu Gln Phe Gln Ile Arg Tyr Gly Leu Ser Gly Lys Glu Val
545 550 555 560

Gln Trp Lys Met Tyr Glu Val Tyr Asp Ala Lys Ser Lys Ser Val Ser
565 570 575

Leu Pro Val Pro Asp Leu Cys Ala Val Tyr Ala Val Gln Val Arg Cys
580 585 590

Lys Arg Leu Asp Gly Leu Gly Tyr Trp Ser Asn Trp Ser Asn Pro Ala
595 600 605

Tyr Thr Val Val Met Asp Ile Lys Val Pro Met Arg Gly Pro Glu Phe
 610 615 620

Trp Arg Ile Ile Asn Gly Asp Thr Met Lys Lys Glu Lys Asn Val Thr
 625 630 635 640

Leu Leu Trp Lys Pro Leu Met Lys Asn Asp Ser Leu Cys Ser Val Gln
 645 650 655

Arg Tyr Val Ile Asn His His Thr Ser Cys Asn Gly Thr Trp Ser Glu
 660 665 670

Asp Val Gly Asn His Thr Lys Phe Thr Phe Leu Trp Thr Glu Gln Ala
 675 680 685

His Thr Val Thr Val Leu Ala Ile Asn Ser Ile Gly Ala Ser Val Ala
 690 695 700

Asn Phe Asn Leu Thr Phe Ser Trp Pro Met Ser Lys Val Asn Ile Val
 705 710 715 720

Gln Ser Leu Ser Ala Tyr Pro Leu Asn Ser Ser Cys Val Ile Val Ser
 725 730 735

Trp Ile Leu Ser Pro Ser Asp Tyr Lys Leu Met Tyr Phe Ile Ile Glu
 740 745 750

Trp Lys Asn Leu Asn Glu Asp Gly Glu Ile Lys Trp Leu Arg Ile Ser
 755 760 765

Ser Ser Val Lys Lys Tyr Tyr Ile His Asp His Phe Ile Pro Ile Glu
 770 775 780

Lys Tyr Gln Phe Ser Leu Tyr Pro Ile Phe Met Glu Gly Val Gly Lys
 785 790 795 800

Pro Lys Ile Ile Asn Ser Phe Thr Gln Asp Asp Ile Glu Lys His Gln
 805 810 815

Ser Asp Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu Gly Gly Glu Gln
 820 825 830

Lys Leu Ile Ser Glu Glu Asp Leu His His His His His His
 835 840 845

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 (E98-K330 de P01863)

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Phe Asn Leu Ser Tyr Pro Ile Thr Pro Trp Arg Phe Lys Leu Ser Cys
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Ser Lys Asn Thr Ser Asn Ser Asn Gly His Tyr Glu Thr Ala Val Glu
 35 40 45

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

Thr Phe His Cys Cys Phe Arg Ser Glu Gln Asp Arg Asn Cys Ser Leu
 65 70 75 80

Cys Ala Asp Asn Ile Glu Gly Lys Thr Phe Val Ser Thr Val Asn Ser
 85 90 95

Leu Val Phe Gln Gln Ile Asp Ala Asn Trp Asn Ile Gln Cys Trp Leu
 100 105 110

Lys Gly Asp Leu Lys Leu Phe Ile Cys Tyr Val Glu Ser Leu Phe Lys
 115 120 125

Asn Leu Phe Arg Asn Tyr Asn Tyr Lys Val His Leu Leu Tyr Val Leu
 130 135 140

Pro Glu Val Leu Glu Asp Ser Pro Leu Val Pro Gln Lys Gly Ser Phe
 145 150 155 160

Gln Met Val His Cys Asn Cys Ser Val His Glu Cys Cys Glu Cys Leu
 165 170 175

Val Pro Val Pro Thr Ala Lys Leu Asn Asp Thr Leu Leu Met Cys Leu
 180 185 190

Lys Ile Thr Ser Gly Gly Val Ile Phe Gln Ser Pro Leu Met Ser Val
 195 200 205

Gln Pro Ile Asn Met Val Lys Pro Asp Pro Pro Leu Gly Leu His Met
 210 215 220

Glu Ile Thr Asp Asp Gly Asn Leu Lys Ile Ser Trp Ser Ser Pro Pro
 225 230 235 240

Leu Val Pro Phe Pro Leu Gln Tyr Gln Val Lys Tyr Ser Glu Asn Ser
 245 250 255

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

Leu Val Asp Ser Ile Leu Pro Gly Ser Ser Tyr Glu Val Gln Val Arg
 275 280 285

Gly Lys Arg Leu Asp Gly Pro Gly Ile Trp Ser Asp Trp Ser Thr Pro
 290 295 300

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

Thr Ser Val Gly Ser Asn Val Ser Phe His Cys Ile Tyr Lys Lys Glu
 325 330 335

Asn Lys Ile Val Pro Ser Lys Glu Ile Val Trp Trp Met Asn Leu Ala
 340 345 350

Glu Lys Ile Pro Gln Ser Gln Tyr Asp Val Val Ser Asp His Val Ser
 355 360 365

Lys Val Thr Phe Phe Asn Leu Asn Glu Thr Lys Pro Arg Gly Lys Phe
 370 375 380

Thr Tyr Asp Ala Val Tyr Cys Cys Asn Glu His Glu Cys His His Arg
 385 390 395 400

Tyr Ala Glu Leu Tyr Val Ile Asp Val Asn Ile Asn Ile Ser Cys Glu
 405 410 415

Thr Asp Gly Tyr Leu Thr Lys Met Thr Cys Arg Trp Ser Thr Ser Thr
 420 425 430

Ile Gln Ser Leu Ala Glu Ser Thr Leu Gln Leu Arg Tyr His Arg Ser
 435 440 445

Ser Leu Tyr Cys Ser Asp Ile Pro Ser Ile His Pro Ile Ser Glu Pro
 450 455 460

Lys Asp Cys Tyr Leu Gln Ser Asp Gly Phe Tyr Glu Cys Ile Phe Gln
 465 470 475 480

Pro Ile Phe Leu Leu Ser Gly Tyr Thr Met Trp Ile Arg Ile Asn His
 485 490 495

Ser Leu Gly Ser Leu Asp Ser Pro Pro Thr Cys Val Leu Pro Asp Ser
 500 505 510

Val Val Lys Pro Leu Pro Pro Ser Ser Val Lys Ala Glu Ile Thr Ile
 515 520 525

Asn Ile Gly Leu Leu Lys Ile Ser Trp Glu Lys Pro Val Phe Pro Glu
 530 535 540

2019-18999 Traducción listado secuencias.txt

Asn Asn Leu Gln Phe Gln Ile Arg Tyr Gly Leu Ser Gly Lys Glu Val
 545 550 555 560
 Gln Trp Lys Met Tyr Glu Val Tyr Asp Ala Lys Ser Lys Ser Val Ser
 565 570 575
 Leu Pro Val Pro Asp Leu Cys Ala Val Tyr Ala Val Gln Val Arg Cys
 580 585 590
 Lys Arg Leu Asp Gly Leu Gly Tyr Trp Ser Asn Trp Ser Asn Pro Ala
 595 600 605
 Tyr Thr Val Val Met Asp Ile Lys Val Pro Met Arg Gly Pro Glu Phe
 610 615 620
 Trp Arg Ile Ile Asn Gly Asp Thr Met Lys Lys Glu Lys Asn Val Thr
 625 630 635 640
 Leu Leu Trp Lys Pro Leu Met Lys Asn Asp Ser Leu Cys Ser Val Gln
 645 650 655
 Arg Tyr Val Ile Asn His His Thr Ser Cys Asn Gly Thr Trp Ser Glu
 660 665 670
 Asp Val Gly Asn His Thr Lys Phe Thr Phe Leu Trp Thr Glu Gln Ala
 675 680 685
 His Thr Val Thr Val Leu Ala Ile Asn Ser Ile Gly Ala Ser Val Ala
 690 695 700
 Asn Phe Asn Leu Thr Phe Ser Trp Pro Met Ser Lys Val Asn Ile Val
 705 710 715 720
 Gln Ser Leu Ser Ala Tyr Pro Leu Asn Ser Ser Cys Val Ile Val Ser
 725 730 735
 Trp Ile Leu Ser Pro Ser Asp Tyr Lys Leu Met Tyr Phe Ile Ile Glu
 740 745 750
 Trp Lys Asn Leu Asn Glu Asp Gly Glu Ile Lys Trp Leu Arg Ile Ser
 755 760 765
 Ser Ser Val Lys Lys Tyr Tyr Ile His Asp His Phe Ile Pro Ile Glu
 770 775 780
 Lys Tyr Gln Phe Ser Leu Tyr Pro Ile Phe Met Glu Gly Val Gly Lys
 785 790 795 800
 Pro Lys Ile Ile Asn Ser Phe Thr Gln Asp Asp Ile Glu Lys His Gln
 805 810 815
 Ser Asp Glu Pro Arg Gly Pro Thr Ile Lys Pro Cys Pro Pro Cys Lys
 820 825 830
 Cys Pro Ala Pro Asn Leu Leu Gly Gly Pro Ser Val Phe Ile Phe Pro
 835 840 845
 Pro Lys Ile Lys Asp Val Leu Met Ile Ser Leu Ser Pro Ile Val Thr
 850 855 860
 Cys Val Val Val Asp Val Ser Glu Asp Asp Pro Asp Val Gln Ile Ser
 865 870 875 880
 Trp Phe Val Asn Asn Val Glu Val His Thr Ala Gln Thr Gln Thr His
 885 890 895
 Arg Glu Asp Tyr Asn Ser Thr Leu Arg Val Val Ser Ala Leu Pro Ile
 900 905 910
 Gln His Gln Asp Trp Met Ser Gly Lys Glu Phe Lys Cys Lys Val Asn
 915 920 925
 Asn Lys Asp Leu Pro Ala Pro Ile Glu Arg Thr Ile Ser Lys Pro Lys
 930 935 940
 Gly Ser Val Arg Ala Pro Gln Val Tyr Val Leu Pro Pro Pro Glu Glu
 945 950 955 960

Glu Met Thr Lys Lys Gln Val Thr Leu Thr Cys Met Val Thr Asp Phe
 965 970 975
 Met Pro Glu Asp Ile Tyr Val Glu Trp Thr Asn Asn Gly Lys Thr Glu
 980 985 990
 Leu Asn Tyr Lys Asn Thr Glu Pro Val Leu Asp Ser Asp Gly Ser Tyr
 995 1000 1005
 Phe Met Tyr Ser Lys Leu Arg Val Glu Lys Lys Asn Trp Val Glu
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 His His Thr Thr Lys Ser Phe Ser Arg Thr Pro Gly Lys
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 <223> hLEPR-hFc aa 1-818: F22-D839 de P48357 aa 819-1045: IgG1 humano
 (D104-K330 de P01857)
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 1 5 10 15
 Met Pro Pro Asn Ser Thr Tyr Asp Tyr Phe Leu Leu Pro Ala Gly Leu
 20 25 30
 Ser Lys Asn Thr Ser Asn Ser Asn Gly His Tyr Glu Thr Ala Val Glu
 35 40 45
 Pro Lys Phe Asn Ser Ser Gly Thr His Phe Ser Asn Leu Ser Lys Thr
 50 55 60
 Thr Phe His Cys Cys Phe Arg Ser Glu Gln Asp Arg Asn Cys Ser Leu
 65 70 75 80
 Cys Ala Asp Asn Ile Glu Gly Lys Thr Phe Val Ser Thr Val Asn Ser
 85 90 95
 Leu Val Phe Gln Gln Ile Asp Ala Asn Trp Asn Ile Gln Cys Trp Leu
 100 105 110
 Lys Gly Asp Leu Lys Leu Phe Ile Cys Tyr Val Glu Ser Leu Phe Lys
 115 120 125
 Asn Leu Phe Arg Asn Tyr Asn Tyr Lys Val His Leu Leu Tyr Val Leu
 130 135 140
 Pro Glu Val Leu Glu Asp Ser Pro Leu Val Pro Gln Lys Gly Ser Phe
 145 150 155 160
 Gln Met Val His Cys Asn Cys Ser Val His Glu Cys Cys Glu Cys Leu
 165 170 175
 Val Pro Val Pro Thr Ala Lys Leu Asn Asp Thr Leu Leu Met Cys Leu
 180 185 190
 Lys Ile Thr Ser Gly Gly Val Ile Phe Gln Ser Pro Leu Met Ser Val
 195 200 205
 Gln Pro Ile Asn Met Val Lys Pro Asp Pro Pro Leu Gly Leu His Met
 210 215 220
 Glu Ile Thr Asp Asp Gly Asn Leu Lys Ile Ser Trp Ser Ser Pro Pro
 225 230 235 240
 Leu Val Pro Phe Pro Leu Gln Tyr Gln Val Lys Tyr Ser Glu Asn Ser
 245 250 255
 Thr Thr Val Ile Arg Glu Ala Asp Lys Ile Val Ser Ala Thr Ser Leu
 260 265 270

Leu Val Asp Ser Ile Leu Pro Gly Ser Ser Tyr Glu Val Gln Val Arg
 275 280 285
 Gly Lys Arg Leu Asp Gly Pro Gly Ile Trp Ser Asp Trp Ser Thr Pro
 290 295 300
 Arg Val Phe Thr Thr Gln Asp Val Ile Tyr Phe Pro Pro Lys Ile Leu
 305 310 315 320
 Thr Ser Val Gly Ser Asn Val Ser Phe His Cys Ile Tyr Lys Lys Glu
 325 330 335
 Asn Lys Ile Val Pro Ser Lys Glu Ile Val Trp Trp Met Asn Leu Ala
 340 345 350
 Glu Lys Ile Pro Gln Ser Gln Tyr Asp Val Val Ser Asp His Val Ser
 355 360 365
 Lys Val Thr Phe Phe Asn Leu Asn Glu Thr Lys Pro Arg Gly Lys Phe
 370 375 380
 Thr Tyr Asp Ala Val Tyr Cys Cys Asn Glu His Glu Cys His His Arg
 385 390 395 400
 Tyr Ala Glu Leu Tyr Val Ile Asp Val Asn Ile Asn Ile Ser Cys Glu
 405 410 415
 Thr Asp Gly Tyr Leu Thr Lys Met Thr Cys Arg Trp Ser Thr Ser Thr
 420 425 430
 Ile Gln Ser Leu Ala Glu Ser Thr Leu Gln Leu Arg Tyr His Arg Ser
 435 440 445
 Ser Leu Tyr Cys Ser Asp Ile Pro Ser Ile His Pro Ile Ser Glu Pro
 450 455 460
 Lys Asp Cys Tyr Leu Gln Ser Asp Gly Phe Tyr Glu Cys Ile Phe Gln
 465 470 475 480
 Pro Ile Phe Leu Leu Ser Gly Tyr Thr Met Trp Ile Arg Ile Asn His
 485 490 495
 Ser Leu Gly Ser Leu Asp Ser Pro Pro Thr Cys Val Leu Pro Asp Ser
 500 505 510
 Val Val Lys Pro Leu Pro Pro Ser Ser Val Lys Ala Glu Ile Thr Ile
 515 520 525
 Asn Ile Gly Leu Leu Lys Ile Ser Trp Glu Lys Pro Val Phe Pro Glu
 530 535 540
 Asn Asn Leu Gln Phe Gln Ile Arg Tyr Gly Leu Ser Gly Lys Glu Val
 545 550 555 560
 Gln Trp Lys Met Tyr Glu Val Tyr Asp Ala Lys Ser Lys Ser Val Ser
 565 570 575
 Leu Pro Val Pro Asp Leu Cys Ala Val Tyr Ala Val Gln Val Arg Cys
 580 585 590
 Lys Arg Leu Asp Gly Leu Gly Tyr Trp Ser Asn Trp Ser Asn Pro Ala
 595 600 605
 Tyr Thr Val Val Met Asp Ile Lys Val Pro Met Arg Gly Pro Glu Phe
 610 615 620
 Trp Arg Ile Ile Asn Gly Asp Thr Met Lys Lys Glu Lys Asn Val Thr
 625 630 635 640
 Leu Leu Trp Lys Pro Leu Met Lys Asn Asp Ser Leu Cys Ser Val Gln
 645 650 655
 Arg Tyr Val Ile Asn His His Thr Ser Cys Asn Gly Thr Trp Ser Glu
 660 665 670
 Asp Val Gly Asn His Thr Lys Phe Thr Phe Leu Trp Thr Glu Gln Ala
 675 680 685 690 695

675

680

685

His Thr Val Thr Val Leu Ala Ile Asn Ser Ile Gly Ala Ser Val Ala
690 695 700

Asn Phe Asn Leu Thr Phe Ser Trp Pro Met Ser Lys Val Asn Ile Val
705 710 715 720

Gln Ser Leu Ser Ala Tyr Pro Leu Asn Ser Ser Cys Val Ile Val Ser
725 730 735

Trp Ile Leu Ser Pro Ser Asp Tyr Lys Leu Met Tyr Phe Ile Ile Glu
740 745 750

Trp Lys Asn Leu Asn Glu Asp Gly Glu Ile Lys Trp Leu Arg Ile Ser
755 760 765

Ser Ser Val Lys Lys Tyr Tyr Ile His Asp His Phe Ile Pro Ile Glu
770 775 780

Lys Tyr Gln Phe Ser Leu Tyr Pro Ile Phe Met Glu Gly Val Gly Lys
785 790 795 800

Pro Lys Ile Ile Asn Ser Phe Thr Gln Asp Asp Ile Glu Lys His Gln
805 810 815

Ser Asp Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu
820 825 830

Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr
835 840 845

Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val
850 855 860

Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val
865 870 875 880

Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser
885 890 895

Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu
900 905 910

Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala
915 920 925

Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro
930 935 940

Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln
945 950 955 960

Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala
965 970 975

Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr
980 985 990

Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu
995 1000 1005

Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys
1010 1015 1020

Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
1025 1030 1035

Leu Ser Leu Ser Pro Gly Lys
1040 1045

<210> 93
<211> 844
<212> PRT
<213> Secuencia Artificial

<220>
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<400> 93

Phe Asn Leu Ser Tyr Pro Ile Thr Pro Trp Arg Phe Lys Leu Ser Cys
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Met Pro Pro Asn Ser Thr Tyr Asp Tyr Phe Leu Leu Pro Ala Gly Leu
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Ser Lys Asn Thr Ser Asn Leu Asn Gly His Tyr Glu Thr Ala Val Glu
35 40 45

Phe Asn Ser Ser Asp Thr His Phe Ser Asn Leu Ser Lys Thr Thr Phe
50 55 60

His Cys Cys Phe Arg Ser Glu Gln Asp Arg Asn Cys Ser Leu Cys Ala
65 70 75 80

Asp Asn Ile Glu Gly Lys Thr Phe Val Ser Thr Val Asn Ser Ser Val
85 90 95

Phe Gln Gln Met Gly Ala Asn Trp Asn Ile Gln Cys Trp Leu Lys Gly
100 105 110

Asp Leu Lys Leu Phe Ile Cys Tyr Val Glu Ser Leu Phe Lys Asn Pro
115 120 125

Phe Lys Asn Tyr Lys His Lys Val His Leu Leu Tyr Val Leu Pro Glu
130 135 140

Val Leu Glu Asp Ser Pro Leu Val Pro Gln Lys Gly Ser Phe Gln Met
145 150 155 160

Val His Cys Asn Cys Ser Val His Glu Arg Cys Glu Cys Leu Val Pro
165 170 175

Val Pro Thr Ala Lys Leu Asn Asp Thr Leu Leu Met Cys Leu Lys Ile
180 185 190

Thr Ser Gly Gly Val Ile Phe Gln Ser Pro Leu Met Ser Val Gln Pro
195 200 205

Ile Asn Met Val Lys Pro Asp Pro Pro Leu Gly Leu Arg Met Glu Ile
210 215 220

Thr Asp Asp Gly Asn Leu Lys Ile Ser Trp Ser Ser Pro Pro Leu Val
225 230 235 240

Pro Phe Pro Leu Gln Tyr Glu Val Lys Tyr Ser Glu Asn Ser Thr Thr
245 250 255

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

Asp Gly Ile Leu Pro Gly Ser Ser Tyr Glu Val Gln Val Arg Gly Lys
275 280 285

Arg Leu Asp Gly Pro Gly Ile Trp Ser Asp Trp Ser Thr Pro His Val
290 295 300

Phe Thr Thr Gln Asp Val Ile Tyr Phe Pro Pro Lys Ile Leu Thr Ser
305 310 315 320

Val Gly Ser Asn Val Ser Phe His Cys Ile Tyr Lys Asn Glu Asn Lys
325 330 335

Ile Val Ser Ser Lys Lys Ile Val Trp Trp Met Asn Leu Ala Glu Lys
340 345 350

Ile Pro Gln Ser Gln Tyr Asp Val Val Ser Asp His Val Ser Lys Val
355 360 365

Thr Phe Phe Asn Leu Asn Glu Thr Lys Pro Arg Gly Lys Phe Thr Tyr
370 375 380

Asp Ala Val Tyr Cys Cys Asn Glu His Glu Cys His His Arg Tyr Ala
385 390 395 400

2019-18999 Traducción listado secuencias.txt

Glu Leu Tyr Val Ile Asp Val Asn Ile Asn Ile Ser Cys Glu Thr Asp
405 410 415

Gly His Leu Thr Lys Met Thr Cys Arg Trp Ser Thr Asn Thr Ile Gln
420 425 430

Ser Leu Ala Gly Ser Thr Leu Gln Leu Arg Tyr Arg Arg Ser Ser Leu
435 440 445

Tyr Cys Phe Asp Ile Pro Ser Ile His Pro Ile Ser Lys Pro Lys Asp
450 455 460

Cys Tyr Leu Gln Ser Asp Gly Phe Tyr Glu Cys Val Phe Gln Pro Ile
465 470 475 480

Phe Leu Leu Ser Gly Tyr Thr Met Trp Ile Arg Ile Asn His Pro Leu
485 490 495

Gly Ser Leu Asp Ser Pro Pro Thr Cys Val Leu Pro Asp Ser Val Val
500 505 510

Lys Pro Leu Pro Pro Ser Ser Val Lys Ala Glu Ile Ile Lys Asn Ile
515 520 525

Gly Leu Leu Lys Ile Ser Trp Glu Lys Pro Val Phe Pro Glu Asn Asn
530 535 540

Leu Gln Phe Gln Ile Arg Tyr Gly Leu Ser Gly Lys Glu Ile Gln Trp
545 550 555 560

Lys Met Tyr Asp Val Tyr Asp Ala Lys Ser Lys Ser Val Ser Leu Pro
565 570 575

Val Pro Asp Phe Cys Ala Val Tyr Ala Val Gln Val Arg Cys Lys Arg
580 585 590

Ser Asp Gly Leu Gly Leu Trp Ser Asn Trp Ser Asn Pro Ala Tyr Thr
595 600 605

Val Val Met Asp Ile Lys Val Pro Met Arg Gly Pro Glu Phe Trp Arg
610 615 620

Ile Ile Asn Gly Asp Thr Met Lys Lys Glu Lys Asn Val Thr Leu Leu
625 630 635 640

Trp Lys Pro Leu Met Lys Asn Asp Ser Leu Cys Ser Val Gln Arg Tyr
645 650 655

Val Ile Asn His His Thr Ser Cys Asn Gly Thr Trp Ser Glu Asp Val
660 665 670

Gly Asn His Thr Lys Phe Thr Phe Leu Trp Thr Glu Gln Ala His Thr
675 680 685

Val Thr Val Leu Ala Ile Asn Ser Ile Gly Ala Ser Val Ala Asn Phe
690 695 700

Asn Leu Thr Phe Ser Trp Pro Met Ser Lys Val Asn Ile Val Gln Ser
705 710 715 720

Leu Ser Ala Tyr Pro Leu Asn Ser Ser Cys Val Ile Leu Ser Trp Ile
725 730 735

Leu Ser Pro Ser Asp Tyr Lys Leu Met Tyr Phe Ile Ile Glu Trp Lys
740 745 750

Asn Leu Asn Glu Asp Gly Glu Ile Lys Trp Leu Arg Ile Ser Ser Ser
755 760 765

Val Lys Lys Tyr Tyr Ile His Asp His Phe Ile Pro Ile Glu Lys Tyr
770 775 780

Gln Phe Ser Leu Tyr Pro Ile Phe Met Glu Gly Val Gly Lys Pro Lys
785 790 795 800

Ile Ile Asn Ser Phe Ala Gln Asp Asn Thr Glu Lys His Gln Asn Asp
805 810 815

Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu Gly Gly Glu Gln Lys Leu
820 825 830

Ile Ser Glu Glu Asp Leu His His His His His His
835 840

<210> 94
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<212> PRT
<213> Secuencia Artificial

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819-846: etiqueta de myc-myc-hexahistidina

<400> 94

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

Pro Asn Asn Ala Ser Ala Leu Lys Gly Ala Ser Glu Ala Ile Val Glu
35 40 45

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

Val Phe His Cys Cys Phe Gly Asn Glu Gln Gly Gln Asn Cys Ser Ala
65 70 75 80

Leu Thr Asp Asn Thr Glu Gly Lys Thr Leu Ala Ser Val Val Lys Ala
85 90 95

Ser Val Phe Arg Gln Leu Gly Val Asn Trp Asp Ile Glu Cys Trp Met
100 105 110

Lys Gly Asp Leu Thr Leu Phe Ile Cys His Met Glu Pro Leu Pro Lys
115 120 125

Asn Pro Phe Lys Asn Tyr Asp Ser Lys Val His Leu Leu Tyr Asp Leu
130 135 140

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

Gln Thr Val Gln Cys Asn Cys Ser Leu Arg Gly Cys Glu Cys His Val
165 170 175

Pro Val Pro Arg Ala Lys Leu Asn Tyr Ala Leu Leu Met Tyr Leu Glu
180 185 190

Ile Thr Ser Ala Gly Val Ser Phe Gln Ser Pro Leu Met Ser Leu Gln
195 200 205

Pro Met Leu Val Val Lys Pro Asp Pro Pro Leu Gly Leu His Met Glu
210 215 220

Val Thr Asp Asp Gly Asn Leu Lys Ile Ser Trp Asp Ser Gln Thr Met
225 230 235 240

Ala Pro Phe Pro Leu Gln Tyr Gln Val Lys Tyr Leu Glu Asn Ser Thr
245 250 255

Ile Val Arg Glu Ala Ala Glu Ile Val Ser Ala Thr Ser Leu Leu Val
260 265 270

Asp Ser Val Leu Pro Gly Ser Ser Tyr Glu Val Gln Val Arg Ser Lys
275 280 285

Arg Leu Asp Gly Ser Gly Val Trp Ser Asp Trp Ser Ser Pro Gln Val
290 295 300

Phe Thr Thr Gln Asp Val Val Tyr Phe Pro Pro Lys Ile Leu Thr Ser
305 310 315 320

Val Gly Ser Asn Ala Ser Phe His Cys Ile Tyr Lys Asn Glu Asn Gln
325 330 335

Ile Ile Ser Ser Lys Gln Ile Val Trp Trp Arg Asn Leu Ala Glu Lys
 340 345 350
 Ile Pro Glu Ile Gln Tyr Ser Ile Val Ser Asp Arg Val Ser Lys Val
 355 360 365
 Thr Phe Ser Asn Leu Lys Ala Thr Arg Pro Arg Gly Lys Phe Thr Tyr
 370 375 380
 Asp Ala Val Tyr Cys Cys Asn Glu Gln Ala Cys His His Arg Tyr Ala
 385 390 400
 Glu Leu Tyr Val Ile Asp Val Asn Ile Asn Ile Ser Cys Glu Thr Asp
 405 410 415
 Gly Tyr Leu Thr Lys Met Thr Cys Arg Trp Ser Pro Ser Thr Ile Gln
 420 425 430
 Ser Leu Val Gly Ser Thr Val Gln Leu Arg Tyr His Arg Arg Ser Leu
 435 440 445
 Tyr Cys Pro Asp Ser Pro Ser Ile His Pro Thr Ser Glu Pro Lys Asn
 450 455 460
 Cys Val Leu Gln Arg Asp Gly Phe Tyr Glu Cys Val Phe Gln Pro Ile
 465 470 475 480
 Phe Leu Leu Ser Gly Tyr Thr Met Trp Ile Arg Ile Asn His Ser Leu
 485 490 495
 Gly Ser Leu Asp Ser Pro Pro Thr Cys Val Leu Pro Asp Ser Val Val
 500 505 510
 Lys Pro Leu Pro Pro Ser Asn Val Lys Ala Glu Ile Thr Val Asn Thr
 515 520 525
 Gly Leu Leu Lys Val Ser Trp Glu Lys Pro Val Phe Pro Glu Asn Asn
 530 535 540
 Leu Gln Phe Gln Ile Arg Tyr Gly Leu Ser Gly Lys Glu Ile Gln Trp
 545 550 555 560
 Lys Thr His Glu Val Phe Asp Ala Lys Ser Lys Ser Ala Ser Leu Leu
 565 570 575
 Val Ser Asp Leu Cys Ala Val Tyr Val Val Gln Val Arg Cys Arg Arg
 580 585 590
 Leu Asp Gly Leu Gly Tyr Trp Ser Asn Trp Ser Ser Pro Ala Tyr Thr
 595 600 605
 Leu Val Met Asp Val Lys Val Pro Met Arg Gly Pro Glu Phe Trp Arg
 610 615 620
 Lys Met Asp Gly Asp Val Thr Lys Lys Glu Arg Asn Val Thr Leu Leu
 625 630 635 640
 Trp Lys Pro Leu Thr Lys Asn Asp Ser Leu Cys Ser Val Arg Arg Tyr
 645 650 655
 Val Val Lys His Arg Thr Ala His Asn Gly Thr Trp Ser Glu Asp Val
 660 665 670
 Gly Asn Arg Thr Asn Leu Thr Phe Leu Trp Thr Glu Pro Ala His Thr
 675 680 685
 Val Thr Val Leu Ala Val Asn Ser Leu Gly Ala Ser Leu Val Asn Phe
 690 695 700
 Asn Leu Thr Phe Ser Trp Pro Met Ser Lys Val Ser Ala Val Glu Ser
 705 710 715 720
 Leu Ser Ala Tyr Pro Leu Ser Ser Ser Cys Val Ile Leu Ser Trp Thr
 725 730 735
 Leu Ser Pro Asp Asp Tyr Ser Leu Leu Tyr Leu Val Ile Glu Trp Lys

740

745

750

Ile Leu Asn Glu Asp Asp Gly Met Lys Trp Leu Arg Ile Pro Ser Asn
 755 760 765

Val Lys Lys Phe Tyr Ile His Asp Asn Phe Ile Pro Ile Glu Lys Tyr
 770 775 780

Gln Phe Ser Leu Tyr Pro Val Phe Met Glu Gly Val Gly Lys Pro Lys
 785 790 795 800

Ile Ile Asn Gly Phe Thr Lys Asp Ala Ile Asp Lys Gln Gln Asn Asp
 805 810 815

Ala Gly Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu Gly Gly Glu Gln
 820 825 830

Lys Leu Ile Ser Glu Glu Asp Leu His His His His His His
 835 840 845

<210> 95
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 <212> PRT
 <213> Secuencia Artificial

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 <223> rLEPR-mmh aa 1-818: LEPR de rata (L22-G839 de NP_036728.1) aa
 819-846: etiqueta de myc-myc-hexahistidina

<400> 95

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

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

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

Ile Phe His Cys Cys Phe Gly Asn Glu Gln Gly Gln Asn Cys Ser Ala
 65 70 75 80

Leu Thr Gly Asn Thr Glu Gly Lys Thr Leu Ala Ser Val Val Lys Pro
 85 90 95

Leu Val Phe Arg Gln Leu Gly Val Asn Trp Asp Ile Glu Cys Trp Met
 100 105 110

Lys Gly Asp Leu Thr Leu Phe Ile Cys His Met Glu Pro Leu Leu Lys
 115 120 125

Asn Pro Phe Lys Asn Tyr Asp Ser Lys Val His Leu Leu Tyr Asp Leu
 130 135 140

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

Gln Thr Val Gln Cys Asn Cys Ser Val Arg Glu Cys Glu Cys His Val
 165 170 175

Pro Val Pro Arg Ala Lys Val Asn Tyr Ala Leu Leu Met Tyr Leu Glu
 180 185 190

Ile Thr Ser Ala Gly Val Ser Phe Gln Ser Pro Leu Met Ser Leu Gln
 195 200 205

Pro Met Leu Val Val Lys Pro Asp Pro Pro Leu Gly Leu Arg Met Glu
 210 215 220

Val Thr Asp Asp Gly Asn Leu Lys Ile Ser Trp Asp Ser Gln Thr Lys
 225 230 235 240

Ala Pro Phe Pro Leu Gln Tyr Gln Val Lys Tyr Leu Glu Asn Ser Thr
 245 250 255

Ile Val Arg Glu Ala Ala Glu Ile Val Ser Asp Thr Ser Leu Leu Val
 Página 31

260	265	270	
Asp Ser Val Leu Pro Gly Ser Ser Tyr Glu Val Gln Val Arg Ser Lys			
275	280	285	
Arg Leu Asp Gly Ser Gly Val Trp Ser Asp Trp Ser Leu Pro Gln Leu			
290	295	300	
Phe Thr Thr Gln Asp Val Met Tyr Phe Pro Pro Lys Ile Leu Thr Ser			
305	310	315	320
Val Gly Ser Asn Ala Ser Phe Cys Cys Ile Tyr Lys Asn Glu Asn Gln			
325	330	335	
Thr Ile Ser Ser Lys Gln Ile Val Trp Trp Met Asn Leu Ala Glu Lys			
340	345	350	
Ile Pro Glu Thr Gln Tyr Asn Thr Val Ser Asp His Ile Ser Lys Val			
355	360	365	
Thr Phe Ser Asn Leu Lys Ala Thr Arg Pro Arg Gly Lys Phe Thr Tyr			
370	375	380	
Asp Ala Val Tyr Cys Cys Asn Glu Gln Ala Cys His His Arg Tyr Ala			
385	390	395	400
Glu Leu Tyr Val Ile Asp Val Asn Ile Asn Ile Ser Cys Glu Thr Asp			
405	410	415	
Gly Tyr Leu Thr Lys Met Thr Cys Arg Trp Ser Pro Ser Thr Ile Gln			
420	425	430	
Ser Leu Val Gly Ser Thr Val Gln Leu Arg Tyr His Arg Arg Ser Leu			
435	440	445	
Tyr Cys Pro Asp Asn Pro Ser Ile Arg Pro Thr Ser Glu Leu Lys Asn			
450	455	460	
Cys Val Leu Gln Thr Asp Gly Phe Tyr Glu Cys Val Phe Gln Pro Ile			
465	470	475	480
Phe Leu Leu Ser Gly Tyr Thr Met Trp Ile Arg Ile Asn His Ser Leu			
485	490	495	
Gly Ser Leu Asp Ser Pro Pro Thr Cys Val Leu Pro Asp Ser Val Val			
500	505	510	
Lys Pro Leu Pro Pro Ser Asn Val Lys Ala Glu Ile Thr Ile Asn Thr			
515	520	525	
Gly Leu Leu Lys Val Ser Trp Glu Lys Pro Val Phe Pro Glu Asn Asn			
530	535	540	
Leu Gln Phe Gln Ile Arg Tyr Gly Leu Asn Gly Lys Glu Ile Gln Trp			
545	550	555	560
Lys Thr His Glu Val Phe Asp Ala Lys Ser Lys Ser Ala Ser Leu Pro			
565	570	575	
Val Ser Asp Leu Cys Ala Val Tyr Val Val Gln Val Arg Cys Arg Arg			
580	585	590	
Leu Asp Gly Leu Gly Tyr Trp Ser Asn Trp Ser Ser Pro Ala Tyr Thr			
595	600	605	
Leu Val Met Asp Val Lys Val Pro Met Arg Gly Pro Glu Phe Trp Arg			
610	615	620	
Ile Met Asp Gly Asp Ile Thr Lys Lys Glu Arg Asn Val Thr Leu Leu			
625	630	635	640
Trp Lys Pro Leu Met Lys Asn Asp Ser Leu Cys Ser Val Arg Arg Tyr			
645	650	655	
Val Val Lys His Arg Thr Ala His Asn Gly Thr Trp Ser Gln Asp Val			
660	665	670	

Gly Asn Gln Thr Asn Leu Thr Phe Leu Trp Ala Glu Ser Ala His Thr
 675 680 685

Val Thr Val Leu Ala Ile Asn Ser Ile Gly Ala Ser Leu Val Asn Phe
 690 695 700

Asn Leu Thr Phe Ser Trp Pro Met Ser Lys Val Asn Ala Val Gln Ser
 705 710 715 720

Leu Ser Ala Tyr Pro Leu Ser Ser Ser Cys Val Ile Leu Ser Trp Thr
 725 730 735

Leu Ser Pro Asn Asp Tyr Ser Leu Leu Tyr Leu Val Ile Glu Trp Lys
 740 745 750

Asn Leu Asn Asp Asp Asp Gly Met Lys Trp Leu Arg Ile Pro Ser Asn
 755 760 765

Val Asn Lys Tyr Tyr Ile His Asp Asn Phe Ile Pro Ile Glu Lys Tyr
 770 775 780

Gln Phe Ser Leu Tyr Pro Val Phe Met Glu Gly Val Gly Lys Pro Lys
 785 790 795 800

Ile Ile Asn Gly Phe Thr Lys Asp Asp Ile Ala Lys Gln Gln Asn Asp
 805 810 815

Ala Gly Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu Gly Gly Glu Gln
 820 825 830

Lys Leu Ile Ser Glu Glu Asp Leu His His His His His His
 835 840 845