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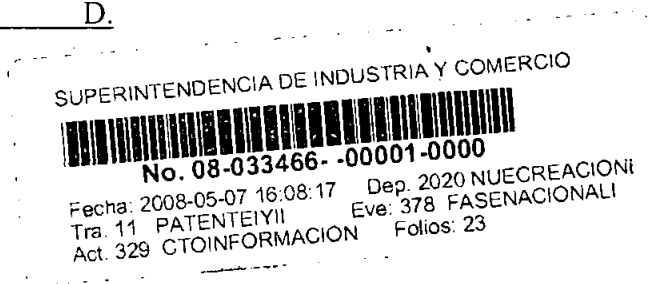
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Señores

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO

DIVISIÓN DE NUEVAS CREACIONES

E. _____ S. _____ D. _____



Ref: Expediente N° 08-033.466

Solicitud de Patente de Invención titulada: “DERIVADOS DE INDOL 1,3-DISUSTITUIDO PARA USO COMO MODULADORES DE PPAR”.

Solicitante: PLEXXIKÓN, INC.

MEMORIAL DE ALCANCE

CARLOS R. OLARTE, mayor de edad y vecino de Bogotá, identificado tal como aparece al pie de mi firma, en mi carácter de apoderado de la sociedad en referencia, me permito presentar copia del Listado de Secuencias tal y como fue presentado en Fase Internacional, e igualmente copia electrónica de la misma.

Atentamente,

CARLOS R. OLARTE
C.C. N°. 79.782.747 de Bogotá
T.P. 74.295

Anexo: Copia física del Listado de Secuencias
Copia electrónica de Secuencias

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO



No. 08-033466- -00001-0000

Fecha: 2008-05-07 16:08:17 Dep. 2020 NUECREACION
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PLEXXICON, INC
EXPEDIENTE No. 08-033.466

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 aaa 1863

<210> 4
 <211> 505
 <212> PRT
 <213> Homo sapiens

<400> 4
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9

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

10

Val Gln Glu Ile Thr Glu Tyr Ala Lys Ser Ile Pro Gly Phe Val Asn
 325 330 335

Leu Asp Leu Asn Asp Gln Val Thr Leu Leu Lys Tyr Gly Val His Glu
 340 345 350

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

Ile Ser Glu Gly Gln Gly Phe Met Thr Arg Glu Phe Leu Lys Ser Leu
 370 375 380

Arg Lys Pro Phe Gly Asp Phe Met Glu Pro Lys Phe Glu Phe Ala Val
 385 390 395 400

Lys Phe Asn Ala Leu Glu Leu Asp Asp Ser Asp Leu Ala Ile Phe Ile
 405 410 415

Ala Val Ile Ile Leu Ser Gly Asp Arg Pro Gly Leu Leu Asn Val Lys
 420 425 430

Pro Ile Glu Asp Ile Gln Asp Asn Leu Leu Gln Ala Leu Glu Leu Gln
 435 440 445

Leu Lys Leu Asn His Pro Glu Ser Ser Gln Leu Phe Ala Lys Leu Leu
 450 455 460

Gln Lys Met Thr Asp Leu Arg Gln Ile Val Thr Glu His Val Gln Leu
 465 470 475 480

Leu Gln Val Ile Lys Lys Thr Glu Thr Asp Met Ser Leu His Pro Leu
 485 490 495

Leu Gln Glu Ile Tyr Lys Asp Leu Tyr
 500 505

<210> 5
 <211> 3328
 <212> ADN
 <213> Homo sapiens

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<210> 6

<211> 441

<212> PRT

<213> Homo sapiens

<400> 6

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Lys Glu Glu Val Ala Glu Ala Glu Gly Ala Pro Glu Leu Asn Gly Gly
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12

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

13

Lys Phe Asn Ala Leu Glu Leu Asp Asp Ser Asp Leu Ala Leu Phe Ile
340 345 350

Ala Ala Ile Ile Leu Cys Gly Asp Arg Pro Gly Leu Met Asn Val Pro
355 360 365

Arg Val Glu Ala Ile Gln Asp Thr Ile Leu Arg Ala Leu Glu Phe His
370 375 380

Leu Gln Ala Asn His Pro Asp Ala Gln Tyr Leu Phe Pro Lys Leu Leu
385 390 395 400

Gln Lys Met Ala Asp Leu Arg Gln Leu Val Thr Glu His Ala Gln Met
405 410 415

Met Gln Arg Ile Lys Lys Thr Glu Thr Glu Thr Ser Leu His Pro Leu
420 425 430

Leu Gln Glu Ile Tyr Lys Asp Met Tyr
435 440

<210> 7

<211> 1014

<212> ADN

<213> Secuencia Artificial

<220>

<223> Descripción de la Secuencia Artificial: Construcción Sintética

<220>

<221> CDS

<222> (88)..(960)

<400> 7

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tggtttaactt taagaaggag atataacc atg ggc agc agc cat cat cat cat cat 114

Met Gly Ser Ser His His His His His

1

5

cac agc agc ggc ctg gtg ccg cgc ggc agc cat atg gaa act gca gat 162

His Ser Ser Gly Leu Val Pro Arg Gly Ser His Met Glu Thr Ala Asp

10

15

20

25

ctc aaa tct ctg gcc aag aga atc tac gag gcc tac ttg aag aac ttc 210

Leu Lys Ser Leu Ala Lys Arg Ile Tyr Glu Ala Tyr Leu Lys Asn Phe

30

35

40

aac atg aac aag gtc aaa gcc cgg gtc atc ctc tca gga aag gcc agt 258

Asn Met Asn Lys Val Lys Ala Arg Val Ile Leu Ser Gly Lys Ala Ser

45

50

55

aac aat cca cct ttt gtc ata cat gat atg gag aca ctg tgt atg gct 306

Asn Asn Pro Pro Phe Val Ile His Asp Met Glu Thr Leu Cys Met Ala

60						65						70						
gag	aag	acg	ctg	gtg	gcc	aag	ctg	gtg	gcc	aat	ggc	atc	cag	aac	aag	354		
Glu	Lys	Thr	Leu	Val	Ala	Lys	Leu	Val	Ala	Asn	Gly	Ile	Gln	Asn	Lys			
75						80						85						
gag	gcg	gag	gtc	cgc	atc	ttt	cac	tgc	tgc	cag	tgc	acg	tca	gtg	gag	402		
Glu	Ala	Glu	Val	Arg	Ile	Phe	His	Cys	Cys	Gln	Cys	Thr	Ser	Val	Glu			
90						95						100						105
acc	gtc	acg	gag	ctc	acg	gaa	ttc	gcc	aag	gcc	atc	cca	ggc	ttc	gca	450		
Thr	Val	Thr	Glu	Leu	Thr	Glu	Phe	Ala	Lys	Ala	Ile	Pro	Gly	Phe	Ala			
110						115						120						
aac	ttg	gac	ctg	aac	gat	caa	gtg	aca	ttg	cta	aaa	tac	gga	ggt	tat	498		
Asn	Leu	Asp	Leu	Asn	Asp	Gln	Val	Thr	Leu	Leu	Lys	Tyr	Gly	Val	Tyr			
125						130						135						
gag	gcc	ata	ttc	gcc	atg	ctg	tct	tct	gtg	atg	aac	aaa	gac	ggg	atg	546		
Glu	Ala	Ile	Phe	Ala	Met	Leu	Ser	Ser	Val	Met	Asn	Lys	Asp	Gly	Met			
140						145						150						
ctg	gta	gcg	tat	gga	aat	ggg	ttt	ata	act	cgt	gaa	ttc	cta	aaa	agc	594		
Leu	Val	Ala	Tyr	Gly	Asn	Gly	Phe	Ile	Thr	Arg	Glu	Phe	Leu	Lys	Ser			
155						160						165						
cta	agg	aaa	ccg	ttc	tgt	gat	atc	atg	gaa	ccc	aag	ttt	gat	ttt	gcc	642		
Leu	Arg	Lys	Pro	Phe	Cys	Asp	Ile	Met	Glu	Pro	Lys	Phe	Asp	Phe	Ala			
170						175						180						185
atg	aag	ttc	aat	gca	ctg	gaa	ctg	gat	gac	agt	gat	atc	tcc	ctt	ttt	690		
Met	Lys	Phe	Asn	Ala	Leu	Glu	Leu	Asp	Asp	Ser	Asp	Ile	Ser	Leu	Phe			
190						195						200						
gtg	gct	gct	atc	att	tgc	tgt	gga	gat	cgt	cct	ggc	ctt	cta	aac	gta	738		
Val	Ala	Ala	Ile	Ile	Cys	Cys	Gly	Asp	Arg	Pro	Gly	Leu	Leu	Asn	Val			
205						210						215						
gga	cac	att	gaa	aaa	atg	cag	gag	ggt	att	gta	cat	gtg	ctc	aga	ctc	786		
Gly	His	Ile	Glu	Lys	Met	Gln	Glu	Gly	Ile	Val	His	Val	Leu	Arg	Leu			
220						225						230						
cac	ctg	cag	agc	aac	cac	ccg	gac	gat	atc	ttt	ctc	ttc	cca	aaa	ctt	834		
His	Leu	Gln	Ser	Asn	His	Pro	Asp	Asp	Ile	Phe	Leu	Phe	Pro	Lys	Leu			
235						240						245						
ctt	caa	aaa	atg	gca	gac	ctc	cgg	cag	ctg	gtg	acg	gag	cat	gcg	cag	882		
Leu	Gln	Lys	Met	Ala	Asp	Leu	Arg	Gln	Leu	Val	Thr	Glu	His	Ala	Gln			
250						255						260						265
ctg	gtg	cag	atc	atc	aag	aag	acg	gag	tcg	gat	gct	gcg	ctg	cac	ccg	930		
Leu	Val	Gln	Ile	Ile	Lys	Lys	Thr	Glu	Ser	Asp	Ala	Ala	Leu	His	Pro			
270						275						280						
cta	ctg	cag	gag	atc	tac	agg	gac	atg	tac	tgagtcgaca	agcttgcggc					980		
Leu	Leu	Gln	Glu	Ile	Tyr	Arg	Asp	Met	Tyr									
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15

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1014

<210> 8

<211> 291

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de la Secuencia Artificial: Construcción Sintética

<400> 8

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Arg	Gly	Ser	His	Met	Glu	Thr	Ala	Asp	Leu	Lys	Ser	Leu	Ala	Lys	Arg
			20					25					30		

Ile	Tyr	Glu	Ala	Tyr	Leu	Lys	Asn	Phe	Asn	Met	Asn	Lys	Val	Lys	Ala
	35						40					45			

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

His	Asp	Met	Glu	Thr	Leu	Cys	Met	Ala	Glu	Lys	Thr	Leu	Val	Ala	Lys
65					70					75					80

Leu	Val	Ala	Asn	Gly	Ile	Gln	Asn	Lys	Glu	Ala	Glu	Val	Arg	Ile	Phe
			85						90					95	

His	Cys	Cys	Gln	Cys	Thr	Ser	Val	Glu	Thr	Val	Thr	Glu	Leu	Thr	Glu
			100					105					110		

Phe	Ala	Lys	Ala	Ile	Pro	Gly	Phe	Ala	Asn	Leu	Asp	Leu	Asn	Asp	Gln
	115						120					125			

Val	Thr	Leu	Leu	Lys	Tyr	Gly	Val	Tyr	Glu	Ala	Ile	Phe	Ala	Met	Leu
	130					135					140				

Ser	Ser	Val	Met	Asn	Lys	Asp	Gly	Met	Leu	Val	Ala	Tyr	Gly	Asn	Gly
145					150					155				160	

Phe	Ile	Thr	Arg	Glu	Phe	Leu	Lys	Ser	Leu	Arg	Lys	Pro	Phe	Cys	Asp
				165					170					175	

Ile	Met	Glu	Pro	Lys	Phe	Asp	Phe	Ala	Met	Lys	Phe	Asn	Ala	Leu	Glu
		180						185					190		

Leu	Asp	Asp	Ser	Asp	Ile	Ser	Leu	Phe	Val	Ala	Ala	Ile	Ile	Cys	Cys
	195						200					205			

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

Glu	Gly	Ile	Val	His	Val	Leu	Arg	Leu	His	Leu	Gln	Ser	Asn	His	Pro
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Vb

225		230		235		240
Asp Asp Ile Phe Leu Phe Pro Lys Leu Leu Gln Lys Met Ala Asp Leu						
	245			250		255
Arg Gln Leu Val Thr Glu His Ala Gln Leu Val Gln Ile Ile Lys Lys						
	260			265		270
Thr Glu Ser Asp Ala Ala Leu His Pro Leu Leu Gln Glu Ile Tyr Arg						
	275			280		285
Asp Met Tyr						
290						

<210> 9
 <211> 33
 <212> ADN
 <213> Secuència Artificial

<220>
 <223> Descripción de la Secuencia Artificial: Iniciador Sintético

<400> 9
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<210> 10
 <211> 32
 <212> ADN
 <213> Secuencia Artificial

<220>
 <223> Descripción de la Secuencia Artificial: Inciador Sintético

<400> 10
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<210> 11
 <211> 1017
 <212> ADN
 <213> Secuencia Artificial

<220>
 <223> Descripción de la Secuencia Artificial: Construcción Sintética

<220>
 <221> CDS
 <222> (88)..(963)

<400> 11
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Met Gly Ser Ser His His His His His	
1 5	
cac agc agc ggc ctg gtg ccg cgc ggc agc cat atg gag tcc gct gac	162
His Ser Ser Gly Leu Val Pro Arg Gly Ser His Met Glu Ser Ala Asp	
10 15 20 25	
ctc cgg gcc ctg gca aaa cat ttg tat gac tca tac ata aag tcc ttc	210
Leu Arg Ala Leu Ala Lys His Leu Tyr Asp Ser Tyr Ile Lys Ser Phe	
30 35 40	
ccg ctg acc aaa gca aag gcg agg gcg atc ttg aca gga aag aca aca	258
Pro Leu Thr Lys Ala Lys Ala Arg Ala Ile Leu Thr Gly Lys Thr Thr	
45 50 55	
gac aaa tca cca ttc gtt atc tat gac atg aat tcc tta atg atg gga	306
Asp Lys Ser Pro Phe Val Ile Tyr Asp Met Asn Ser Leu Met Met Gly	
60 65 70	
gaa gat aaa atc aag ttc aaa cac atc acc ccc ctg cag gag cag agc	354
Glu Asp Lys Ile Lys Phe Lys His Ile Thr Pro Leu Gln Glu Gln Ser	
75 80 85	
aaa gag gtg gcc atc cgc atc ttt cag ggc tgc cag ttt cgc tcc gtg	402
Lys Glu Val Ala Ile Arg Ile Phe Gln Gly Cys Gln Phe Arg Ser Val	
90 95 100 105	
gag gct gtg cag gag atc aca gag tat gcc aaa agc att cct ggt ttt	450
Glu Ala Val Gln Glu Ile Thr Glu Tyr Ala Lys Ser Ile Pro Gly Phe	
110 115 120	
gta aat ctt gac ttg aac gac caa gta act ctc ctc aaa tat gga gtc	498
Val Asn Leu Asp Leu Asn Asp Gln Val Thr Leu Leu Lys Tyr Gly Val	
125 130 135	
cac gag atc att tac aca atg ctg gcc tcc ttg atg aat aaa gat ggg	546
His Glu Ile Ile Tyr Thr Met Leu Ala Ser Leu Met Asn Lys Asp Gly	
140 145 150	
gtt ctc ata tcc gag ggc caa ggc ttc atg aca agg gag ttt cta aag	594
Val Leu Ile Ser Glu Gly Gln Gly Phe Met Thr Arg Glu Phe Leu Lys	
155 160 165	
agc ctg cga aag cct ttt ggt gac ttt atg gag ccc aag ttt gag ttt	642
Ser Leu Arg Lys Pro Phe Gly Asp Phe Met Glu Pro Lys Phe Glu Phe	
170 175 180 185	
gct gtg aag ttc aat gca ctg gaa tta gat gac agc gac ttg gca ata	690
Ala Val Lys Phe Asn Ala Leu Glu Leu Asp Asp Ser Asp Leu Ala Ile	
190 195 200	
ttt att gct gtc att att ctc agt gga gac cgc cca ggt ttg ctg aat	738
Phe Ile Ala Val Ile Ile Leu Ser Gly Asp Arg Pro Gly Leu Leu Asn	
205 210 215	

16

gtg aag ccc att gaa gac att caa gac aac ctg cta caa gcc ctg gag 786
 Val Lys Pro Ile Glu Asp Ile Gln Asp Asn Leu Leu Gln Ala Leu Glu
 220 225 230

ctc cag ctg aag ctg aac cac cct gag tcc tca cag ctg ttt gcc aag 834
 Leu Gln Leu Lys Leu Asn His Pro Glu Ser Ser Gln Leu Phe Ala Lys
 235 240 245

ctg ctc cag aaa atg aca gac ctc aga cag att gtc acg gaa cat gtg 882
 Leu Leu Gln Lys Met Thr Asp Leu Arg Gln Ile Val Thr Glu His Val
 250 255 260 265

cag cta ctg cag gtg atc aag aag acg gag aca gac atg agt ctt cac 930
 Gln Leu Leu Gln Val Ile Lys Lys Thr Glu Thr Asp Met Ser Leu His
 270 275 280

ccg ctc ctg cag gag atc tac aag gac ttg tac taggtcgaca agcttgccggc 983
 Pro Leu Leu Gln Glu Ile Tyr Lys Asp Leu Tyr
 285 290

cgcaactcgag caccaccacc accaccactg agat 1017

<210> 12

<211> 292

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de la Secuencia Artificial: Construcción Sintética

<400> 12

Met Gly Ser Ser His His His His His His Ser Ser Gly Leu Val Pro
 1 5 10 15

Arg Gly Ser His Met Glu Ser Ala Asp Leu Arg Ala Leu Ala Lys His
 20 25 30

Leu Tyr Asp Ser Tyr Ile Lys Ser Phe Pro Leu Thr Lys Ala Lys Ala
 35 40 45

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

Tyr Asp Met Asn Ser Leu Met Met Gly Glu Asp Lys Ile Lys Phe Lys
 65 70 75 80

His Ile Thr Pro Leu Gln Glu Gln Ser Lys Glu Val Ala Ile Arg Ile
 85 90 95

Phe Gln Gly Cys Gln Phe Arg Ser Val Glu Ala Val Gln Glu Ile Thr
 100 105 110

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

19

Gln Val Thr Leu Leu Lys Tyr Gly Val His Glu Ile Ile Tyr Thr Met
 130 135 140
 Leu Ala Ser Leu Met Asn Lys Asp Gly Val Leu Ile Ser Glu Gly Gln
 145 150 155 160
 Gly Phe Met Thr Arg Glu Phe Leu Lys Ser Leu Arg Lys Pro Phe Gly
 165 170 175
 Asp Phe Met Glu Pro Lys Phe Glu Phe Ala Val Lys Phe Asn Ala Leu
 180 185 190
 Glu Leu Asp Asp Ser Asp Leu Ala Ile Phe Ile Ala Val Ile Ile Leu
 195 200 205
 Ser Gly Asp Arg Pro Gly Leu Leu Asn Val Lys Pro Ile Glu Asp Ile
 210 215 220
 Gln Asp Asn Leu Leu Gln Ala Leu Glu Leu Gln Leu Lys Leu Asn His
 225 230 235 240
 Pro Glu Ser Ser Gln Leu Phe Ala Lys Leu Leu Gln Lys Met Thr Asp
 245 250 255
 Leu Arg Gln Ile Val Thr Glu His Val Gln Leu Leu Gln Val Ile Lys
 260 265 270
 Lys Thr Glu Thr Asp Met Ser Leu His Pro Leu Leu Gln Glu Ile Tyr
 275 280 285
 Lys Asp Leu Tyr
 290

<210> 13

<211> 33

<212> ADN

<213> Secuencia Artificial

<220>

<223> Descripción de la Secuencia Artificial: Iniciador Sintético

<400> 13

gctcagacat atggagtcgc ctgacctccg ggc

33

<210> 14

<211> 32

<212> ADN

<213> Secuencia Artificial

<220>

<223> Descripción de la Secuencia Artificial: Iniciador Sintético

<400> 14
gtgactgtcg acctagtaca agtccttgta ga

32

<210> 15
<211> 1089
<212> ADN
<213> Secuencia Artificial

<220>
<223> Descripción de la Secuencia Artificial: Construcción Sintética

<220>
<221> CDS
<222> (88)..(948)

<400> 15
taatacgact cactataggg gaattgtgag cggataacaa ttccccctcta gaaataattt 60

tgtttaactt taagaaggag atataacc atg aaa aaa ggt cac cac cat cac cat 114
Met Lys Lys Gly His His His His His
1 5

cac gga tcc cag tac aac cca cag gtg gcc gac ctg aag gcc ttc tcc 162
His Gly Ser Gln Tyr Asn Pro Gln Val Ala Asp Leu Lys Ala Phe Ser
10 15 20 25

aag cac atc tac aat gcc tac ctg aaa aac ttc aac atg acc aaa aag 210
Lys His Ile Tyr Asn Ala Tyr Leu Lys Asn Phe Asn Met Thr Lys Lys
30 35 40

aag gcc cgc agc atc ctc acc ggc aaa gcc agc cac acg gcg ccc ttt 258
Lys Ala Arg Ser Ile Leu Thr Gly Lys Ala Ser His Thr Ala Pro Phe
45 50 55

gtg atc cac gac atc gag aca ttg tgg cag gca gag aag ggg ctg gtg 306
Val Ile His Asp Ile Glu Thr Leu Trp Gln Ala Glu Lys Gly Leu Val
60 65 70

tgg aag cag ttg gtg aat ggc ctg cct ccc tac aag gag atc agc gtg 354
Trp Lys Gln Leu Val Asn Gly Leu Pro Pro Tyr Lys Glu Ile Ser Val
75 80 85

cac gtc ttc tac cgc tgc cag tgc acc aca gtg gag acc gtg cgg gag 402
His Val Phe Tyr Arg Cys Gln Cys Thr Thr Val Glu Thr Val Arg Glu
90 95 100 105

ctc act gag ttc gcc aag agc atc ccc agc ttc agc agc ctc ttc ctc 450
Leu Thr Glu Phe Ala Lys Ser Ile Pro Ser Phe Ser Ser Leu Phe Leu
110 115 120

aac gac cag gtt acc ctt ctc aag tat ggc gtg cac gag gcc atc ttc 498
Asn Asp Gln Val Thr Leu Leu Lys Tyr Gly Val His Glu Ala Ile Phe
125 130 135

21

gcc atg ctg gcc tct atc gtc aac aag gac ggg ctg ctg gta gcc aac 546
 Ala Met Leu Ala Ser Ile Val Asn Lys Asp Gly Leu Leu Val Ala Asn
 140 145 150

ggc agt ggc ttt gtc acc cgt gag ttc ctg cgc agc ctc cgc aaa ccc 594
 Gly Ser Gly Phe Val Thr Arg Glu Phe Leu Arg Ser Leu Arg Lys Pro
 155 160 165

ttc agt gat atc att gag cct aag ttt gaa ttt gct gtc aag ttc aac 642
 Phe Ser Asp Ile Ile Glu Pro Lys Phe Glu Phe Ala Val Lys Phe Asn
 170 175 180 185

gcc ctg gaa ctt gat gac agt gac ctg gcc cta ttc att gcg gcc atc 690
 Ala Leu Glu Leu Asp Asp Ser Asp Leu Ala Leu Phe Ile Ala Ala Ile
 190 195 200

att ctg tgt gga gac cgg cca ggc ctc atg aac gtt cca cgg gtg gag 738
 Ile Leu Cys Gly Asp Arg Pro Gly Leu Met Asn Val Pro Arg Val Glu
 205 210 215

gct atc cag gac acc atc ctg cgt gcc ctc gaa ttc cac ctg cag gcc 786
 Ala Ile Gln Asp Thr Ile Leu Arg Ala Leu Glu Phe His Leu Gln Ala
 220 225 230

aac cac cct gat gcc cag tac ctc ttc ccc aag ctg ctg cag aag atg 834
 Asn His Pro Asp Ala Gln Tyr Leu Phe Pro Lys Leu Leu Gln Lys Met
 235 240 245

gct gac ctg cgg caa ctg gtc acc gag cac gcc cag atg atg cag cgg 882
 Ala Asp Leu Arg Gln Leu Val Thr Glu His Ala Gln Met Met Gln Arg
 250 255 260 265

atc aag aag acc gaa acc gag acc tcg ctg cac cct ctg ctc cag gag 930
 Ile Lys Lys Thr Glu Thr Glu Thr Ser Leu His Pro Leu Leu Gln Glu
 270 275 280

atc tac aag gac atg tac taagtgcacc accaccacca ccaccactga 978
 Ile Tyr Lys Asp Met Tyr
 285

gatccggctg gccctactgg ccgaaaggaa ttcgaggcca gcagggccac cgctgagcaa 1038

taactagcat aacccttg ggccctctaaa cgggtcttga ggggtttttt g 1089

<210> 16

<211> 287

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de la Secuencia Artificial: Construcción Sintética

<400> 16

Met Lys Lys Gly His His His His His His Gly Ser Gln Tyr Asn Pro

1	5	10	15
Gln Val Ala Asp Leu Lys Ala Phe Ser Lys His Ile Tyr Asn Ala Tyr	20	25	30
Leu Lys Asn Phe Asn Met Thr Lys Lys Lys Ala Arg Ser Ile Leu Thr	35	40	45
Gly Lys Ala Ser His Thr Ala Pro Phe Val Ile His Asp Ile Glu Thr	50	55	60
Leu Trp Gln Ala Glu Lys Gly Leu Val Trp Lys Gln Leu Val Asn Gly	65	70	75
Leu Pro Pro Tyr Lys Glu Ile Ser Val His Val Phe Tyr Arg Cys Gln	85	90	95
Cys Thr Thr Val Glu Thr Val Arg Glu Leu Thr Glu Phe Ala Lys Ser	100	105	110
Ile Pro Ser Phe Ser Ser Leu Phe Leu Asn Asp Gln Val Thr Leu Leu	115	120	125
Lys Tyr Gly Val His Glu Ala Ile Phe Ala Met Leu Ala Ser Ile Val	130	135	140
Asn Lys Asp Gly Leu Leu Val Ala Asn Gly Ser Gly Phe Val Thr Arg	145	150	155
Glu Phe Leu Arg Ser Leu Arg Lys Pro Phe Ser Asp Ile Ile Glu Pro	165	170	175
Lys Phe Glu Phe Ala Val Lys Phe Asn Ala Leu Glu Leu Asp Asp Ser	180	185	190
Asp Leu Ala Leu Phe Ile Ala Ala Ile Ile Leu Cys Gly Asp Arg Pro	195	200	205
Gly Leu Met Asn Val Pro Arg Val Glu Ala Ile Gln Asp Thr Ile Leu	210	215	220
Arg Ala Leu Glu Phe His Leu Gln Ala Asn His Pro Asp Ala Gln Tyr	225	230	235
Leu Phe Pro Lys Leu Leu Gln Lys Met Ala Asp Leu Arg Gln Leu Val	245	250	255
Thr Glu His Ala Gln Met Met Gln Arg Ile Lys Lys Thr Glu Thr Glu	260	265	270
Thr Ser Leu His Pro Leu Leu Gln Glu Ile Tyr Lys Asp Met Tyr	275	280	285

<210> 17

<211> 29

23

<212> ADN

<213> Secuencia Artificial

<220>

<223> Descripción de la Secuencia Artificial: Iniciador Sintético

<400> 17

gttggatccc agtacaaccc acaggtggc

29

<210> 18

<211> 32

<212> ADN

<213> Secuencia Artificial

<220>

<223> Descripción de la Secuencia Artificial: Iniciador Sintético

<400> 18

gtgactgtcg acttagtaca tgccttgta ga

32

<210> 19

<211> 25

<212> PRT

<213> Secuencia Artificial

<220>

<223> Descripción de la Secuencia Artificial: Péptido Sintético

<400> 19

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

Lys	Leu	Leu	Leu	Ala	Pro	Ala	Asn	Thr
			20				25	