

LISTADO DE SECUENCIAS

<110> Janssen Biotech, Inc.

<120> VACUNAS BASADAS EN CALR Y JAK2 MUTANTES Y SUS USOS

<130> JBI6177WOPCT1

<140>

<141>

<150> 62/936,841

<151> 2019-11-18

<150> 62/936,846

<151> 2019-11-18

<160> 54

<170> PatentIn versión 3.5

<210> 1

<211> 54

<212> PRT

<213> Secuencia artificial

<220>

<223> Descripción de la secuencia artificial: Polipéptido

sintético

<400> 1

Met Lys Asp Lys Gln Asp Glu Glu Gln Arg Thr Arg Arg Met Met Arg

1 5 10 15

Thr Lys Met Arg Met Arg Arg Met Arg Arg Thr Arg Arg Lys Met Arg

20 25 30

Arg Lys Met Ser Pro Ala Arg Pro Arg Thr Ser Cys Arg Glu Ala Cys

35 40 45

Leu Gln Gly Trp Thr Glu

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<210> 2

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<212> PRT

<213> Secuencia artificial

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<223> Descripción de la secuencia artificial: Péptido

sintético

<400> 2

Glu Glu Ala Glu Asp Asn Cys Arg Arg Met Met Arg Thr Lys

1 5 10

<210> 3

<211> 71

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<213> Secuencia artificial

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<223> Descripción de la secuencia artificial: Polipéptido
sintético

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Met Lys Asp Lys Gln Asp Glu Glu Gln Arg Thr Arg Arg Met Met Arg

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Thr Lys Met Arg Met Arg Arg Met Arg Arg Thr Arg Arg Lys Met Arg

20 25 30

Arg Lys Met Ser Pro Ala Arg Pro Arg Thr Ser Cys Arg Glu Ala Cys

35 40 45

Leu Gln Gly Trp Thr Glu Ala Ala Tyr Glu Glu Ala Glu Asp Asn Cys

50 55 60

Arg Arg Met Met Arg Thr Lys

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<210> 4

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<223> Descripción de la secuencia artificial: Polipéptido
sintético

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Lys Leu Ser His Lys His Leu Val Leu Asn Tyr Gly Val Cys Phe Cys

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Gly Asp Glu Asn Ile Leu Val Gln Glu Phe Val Lys Phe Gly

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<213> Secuencia artificial

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<223> Descripción de la secuencia artificial: Péptido
sintético

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Val Leu Asn Tyr Gly Val Cys Phe Cys

1 5

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<211> 9

<212> PRT

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<223> Descripción de la secuencia artificial: Péptido
sintético

<400> 6

Phe Cys Gly Asp Glu Asn Ile Leu Val

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<210> 7

<211> 21

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<213> Secuencia artificial

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<223> Descripción de la secuencia artificial: Péptido

sintético

<400> 7

Val Leu Asn Tyr Gly Val Cys Phe Cys Ala Ala Tyr Phe Cys Gly Asp

1 5 10 15

Glu Asn Ile Leu Val

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<210> 8

<211> 21

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<213> Secuencia artificial

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<223> Descripción de la secuencia artificial: Péptido

sintético

<400> 8

Met Ala Cys Pro Gly Phe Leu Trp Ala Leu Val Ile Ser Thr Cys Leu

1 5 10 15

Glu Phe Ser Met Ala

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<210> 9

<211> 92

<212> PRT

<213> Secuencia artificial

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<223> Descripción de la secuencia artificial: Polipéptido
sintético

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Glu Phe Ser Met Ala Met Lys Asp Lys Gln Asp Glu Glu Gln Arg Thr
20 25 30

Arg Arg Met Met Arg Thr Lys Met Arg Met Arg Arg Met Arg Arg Thr
35 40 45

Arg Arg Lys Met Arg Arg Lys Met Ser Pro Ala Arg Pro Arg Thr Ser
50 55 60

Cys Arg Glu Ala Cys Leu Gln Gly Trp Thr Glu Ala Ala Tyr Glu Glu
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Ala Glu Asp Asn Cys Arg Arg Met Met Arg Thr Lys

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<223> Descripción de la secuencia artificial: Polipéptido
sintético

<400> 10

Met Ala Cys Pro Gly Phe Leu Trp Ala Leu Val Ile Ser Thr Cys Leu

1

5

10

15

Glu Phe Ser Met Ala Met Lys Asp Lys Gln Asp Glu Glu Gln Arg Thr

20

25

30

Arg Arg Met Met Arg Thr Lys Met Arg Met Arg Arg Met Arg Arg Thr

35

40

45

Arg Arg Lys Met Arg Arg Lys Met Ser Pro Ala Arg Pro Arg Thr Ser

50

55

60

Cys Arg Glu Ala Cys Leu Gln Gly Trp Thr Glu Ala Ala Tyr Glu Glu
65 70 75 80

Ala Glu Asp Asn Cys Arg Arg Met Met Arg Thr Lys Ala Ala Tyr Val
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Leu Asn Tyr Gly Val Cys Phe Cys Ala Ala Tyr Phe Cys Gly Asp Glu
100 105 110

Asn Ile Leu Val
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<210> 11

<211> 125

<212> PRT

<213> Secuencia artificial

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<223> Descripción de la secuencia artificial: Polipéptido
sintético

<400> 11

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Glu Phe Ser Met Ala Met Lys Asp Lys Gln Asp Glu Glu Gln Arg Thr			
20	25	30	
Arg Arg Met Met Arg Thr Lys Met Arg Met Arg Arg Met Arg Arg Thr			
35	40	45	
Arg Arg Lys Met Arg Arg Lys Met Ser Pro Ala Arg Pro Arg Thr Ser			
50	55	60	
Cys Arg Glu Ala Cys Leu Gln Gly Trp Thr Glu Ala Ala Tyr Glu Glu			
65	70	75	80
Ala Glu Asp Asn Cys Arg Arg Met Met Arg Thr Lys Ala Ala Tyr Lys			
85	90	95	
Leu Ser His Lys His Leu Val Leu Asn Tyr Gly Val Cys Phe Cys Gly			
100	105	110	
Asp Glu Asn Ile Leu Val Gln Glu Phe Val Lys Phe Gly			
115	120	125	

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<223> Descripción de la secuencia artificial: Polipéptido
sintético

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1 5 10 15

Thr Lys Met Arg Met Arg Arg Met Arg Arg Thr Arg Arg Lys Met Arg

20 25 30

Arg Lys Met Ser Pro Ala Arg Pro Arg Thr Ser Cys Arg Glu Ala Cys

35 40 45

Leu Gln Gly Trp Thr Glu Ala Ala Tyr Glu Glu Ala Glu Asp Asn Cys

50 55 60

Arg Arg Met Met Arg Thr Lys Ala Ala Tyr Val Leu Asn Tyr Gly Val

65 70 75 80

Cys Phe Cys Ala Ala Tyr Phe Cys Gly Asp Glu Asn Ile Leu Val

85 90 95

<210> 13

<211> 104

<212> PRT

<213> Secuencia artificial

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<223> Descripción de la secuencia artificial: Polipéptido
sintético

<400> 13

Met Lys Asp Lys Gln Asp Glu Glu Gln Arg Thr Arg Arg Met Met Arg

1 5 10 15

Thr Lys Met Arg Met Arg Arg Met Arg Arg Thr Arg Arg Lys Met Arg

20 25 30

Arg Lys Met Ser Pro Ala Arg Pro Arg Thr Ser Cys Arg Glu Ala Cys

35 40 45

Leu Gln Gly Trp Thr Glu Ala Ala Tyr Glu Glu Ala Glu Asp Asn Cys
50 55 60

Arg Arg Met Met Arg Thr Lys Ala Ala Tyr Lys Leu Ser His Lys His
65 70 75 80

Leu Val Leu Asn Tyr Gly Val Cys Phe Cys Gly Asp Glu Asn Ile Leu
85 90 95

Val Gln Glu Phe Val Lys Phe Gly
100

<210> 14

<211> 171

<212> PRT

<213> Secuencia artificial

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<223> Descripción de la secuencia artificial: Polipéptido
sintético

<400> 14

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

Val Glu Pro Ser Asp Thr Ile Glu Asn Val Lys Ala Lys Ile Gln Asp

20

25

30

Lys Glu Gly Ile Pro Pro Asp Gln Gln Arg Leu Ile Phe Ala Gly Lys

35

40

45

Gln Leu Glu Asp Gly Arg Thr Leu Ser Asp Tyr Asn Ile Gln Lys Glu

50

55

60

Ser Thr Leu His Leu Val Leu Arg Leu Arg Gly Val Arg Lys Asp Lys

65

70

75

80

Gln Asp Glu Glu Gln Arg Thr Arg Arg Met Met Arg Thr Lys Met Arg

85

90

95

Met Arg Arg Met Arg Arg Thr Arg Arg Lys Met Arg Arg Lys Met Ser

100

105

110

Pro Ala Arg Pro Arg Thr Ser Cys Arg Glu Ala Cys Leu Gln Gly Trp

115

120

125

Thr Glu Ala Ala Tyr Glu Glu Ala Glu Asp Asn Cys Arg Arg Met Met
130 135 140

Arg Thr Lys Ala Ala Tyr Val Leu Asn Tyr Gly Val Cys Phe Cys Ala
145 150 155 160

Ala Tyr Phe Cys Gly Asp Glu Asn Ile Leu Val
165 170

<210> 15

<211> 180

<212> PRT

<213> Secuencia artificial

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<223> Descripción de la secuencia artificial: Polipéptido
sintético

<400> 15

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

Val Glu Pro Ser Asp Thr Ile Glu Asn Val Lys Ala Lys Ile Gln Asp
20 25 30

Lys Glu Gly Ile Pro Pro Asp Gln Gln Arg Leu Ile Phe Ala Gly Lys

35

40

45

Gln Leu Glu Asp Gly Arg Thr Leu Ser Asp Tyr Asn Ile Gln Lys Glu

50

55

60

Ser Thr Leu His Leu Val Leu Arg Leu Arg Gly Val Arg Lys Asp Lys

65

70

75

80

Gln Asp Glu Glu Gln Arg Thr Arg Arg Met Met Arg Thr Lys Met Arg

85

90

95

Met Arg Arg Met Arg Arg Thr Arg Arg Lys Met Arg Arg Lys Met Ser

100

105

110

Pro Ala Arg Pro Arg Thr Ser Cys Arg Glu Ala Cys Leu Gln Gly Trp

115

120

125

Thr Glu Ala Ala Tyr Glu Glu Ala Glu Asp Asn Cys Arg Arg Met Met

130

135

140

Arg	Thr	Lys	Ala	Ala	Tyr	Lys	Leu	Ser	His	Lys	His	Leu	Val	Leu	Asn
145					150					155					160

Tyr	Gly	Val	Cys	Phe	Cys	Gly	Asp	Glu	Asn	Ile	Leu	Val	Gln	Glu	Phe
			165						170					175	

Val	Lys	Phe	Gly
			180

<210> 16

<211> 276

<212> ADN

<213> Secuencia artificial

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<223> Descripción de la secuencia artificial: Polinucleótido
sintético

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cgcatgaggc gcatgcggag aacaaggcgc aagatgcgga gaaagatgtc tccagcaagg	180
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cctagaacca gctgcaggga ggcattgtctg cagggatgga cagaggcagc atacgaggag	240
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gcagaggaca actgcaggcg catgatgagg accaag 276

<210> 17

<211> 348

<212> ADN

<213> Secuencia artificial

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<223> Descripción de la secuencia artificial: Polinucleótido
sintético

<400> 17

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cgcattgagg gcatgcggag aacaaggcgc aagatgcgga gaaagatgtc tccagcaagg 180

cctagaacca gctgcaggga ggcattgtct cagggatgga cagaggcagc atacgaggag 240

gcagaggaca actgcaggcg catgatgagg accaaggccg cctacgtgct gaattatggc 300

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<223> Descripción de la secuencia artificial: Polinucleótido
sintético

<400> 18

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gccatgaagg acaagcagga tgaggagcag cggacccgga gaatgatgag gacaaagatg 120

cgcatgaggc gcatgcggag aacaaggcgc aagatgcgga gaaagatgtc tccagcaagg 180

cctagaacca gctgcaggga ggcattgtctg cagggatgga cagaggcagc atacgaggag 240

gcagaggaca actgcaggcg catgatgagg accaaggccg cctacaagct gagccacaag 300

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<210> 19

<211> 285

<212> ADN

<213> Secuencia artificial

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<223> Descripción de la secuencia artificial: Polinucleótido
sintético

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atgaggcgca tgcggagAAC aaggcgcaag atgcggagaa agatgtctcc agcaaggcct 120

agaaccagct gcaggaggc atgtctgcag ggatggacag aggcagcata cgaggaggca 180

gaggacaact gcaggcgcat gatgaggacc aaggccgcct acgtgctgaa ttatggcgtg 240

tgcttctgtg ccgcctatTT ttgtggcgat gagaacatcc tgggtg 285

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<213> Secuencia artificial

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<223> Descripción de la secuencia artificial: Polinucleótido
sintético

<400> 20

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agaaccagct gcagggaggc atgtctgcag ggatggacag aggcagcata cgaggaggca	180
gaggacaact gcaggcgcac gatgaggacc aaggccgcct acaagctgag ccacaagcac	240
ctggtgctga actatggcgt gtgcttctgt ggcgatgaga atacctggt gcaggagttc	300
gtgaagtttg gc	312

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<223> Descripción de la secuencia artificial: Polinucleótido
sintético

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cagcggctga tctttgccgg caagcagctg gaggacggca gaaccctgtc tgattacaat	180
atccagaagg agagcacact gcacctggtg ctgcggctga gaggcgtgag gaaggacaag	240
caggatgagg agcagcgcac ccggagaatg atgcggacaa agatgagaat gaggcgcatg	300

cggagaacca ggcgcaagat gcggagaaag atgagcccag caaggccacg cacctcctgc	360
agggaggcat gtctgcaggg atggacagag gcagcctatg aggaggccga ggacaactgc	420
aggcgcgatga tgcggacaaa ggccgcctac gtgctgaatt atggcgtgtg cttctgtgcc	480
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<210> 22

<211> 546

<212> ADN

<213> Secuencia artificial

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<223> Descripción de la secuencia artificial: Polinucleótido
sintético

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cagcggctga tctttgccgg caagcagctg gaggacggca gaaccctgtc tgattacaat	180
atccagaagg agagcacact gcacctggtg ctgaggctga gaggcgtgag gaaggacaag	240
caggatgagg agcagcgcac ccggagaaatg atgcggacaa agatgagaat gaggcgcgatg	300

cggagaacca ggcgcaagat gcggagaaag atgagcccag caaggccacg cacctcctgc	360
agggaggcat gtctgcaggg atggacagag gcagcctatg aggaggccga ggacaactgc	420
aggcgcatga tgcggacaaa ggccgcctac aagctgtctc acaagcacct ggtgctgaac	480
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<213> Secuencia artificial

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<223> Descripción de la secuencia artificial: Polinucleótido
sintético

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aacattaccg ccatgttgac attgattatt gactagttat taatagtaat caattacggg	180
gtcattagtt catagcccat atatggagtt ccgcgttaca taacttacgg taaatggccc	240

gcctggctga ccgccaacg acccccgccc attgacgtca ataatgacgt atgttcccat	300
agtaacgcca atagggactt tccattgacg tcaatgggtg gagtatttac ggtaaaactgc	360
ccacttggca gtacatcaag tgtatcatat gccaaagtacg ccccctattg acgtcaatga	420
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gcagtacatc tacgtattag tcatcgctat taccatgggtg atgcggtttt ggcagtacat	540
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caatgggagt ttgttttggc accaaaatca acgggacttt caaaatgtc gtaacaactc	660
cgccccattg acgcaaattg gcggtagggc tgtacgggtg gaggtctata taagcagagc	720
tctccctatc agtgatagag atctccctat cagtgataga gatcgtcgac gagctcgttt	780
agtgaaccgt cagatcgctt ggagacgcca tccacgctgt ttgacctcc atagaagaca	840
ccgggaccga tccagcctcc gcggccggga acggtgcatt ggatctagag ccacatggc	900
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gaaggacaag caggatgagg agcagcggac ccggagaatg atgaggacaa agatgcgcat	1020
gaggcgcatg cggagaacaa ggcgcaagat gcggagaaag atgtctccag caaggcctag	1080
aaccagctgc agggaggcat gtctgcaggg atggacagag gcagcatacg aggaggcaga	1140

ggacaactgc aggcgcatga tgaggaccaa ggccgcctac aagctgagcc acaagcacct	1200
ggtgctgaac tatggcgtgt gcttctgtgg cgatgagaat atcctgggtgc aggagttcgt	1260
gaagtttggc tgataaggta ccatccgaac ttgtttattg cagcttataa tggttacaaa	1320
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<212> ADN

<213> Secuencia artificial

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<223> Descripción de la secuencia artificial: Polinucleótido
sintético

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aacattaccg ccatgttgac attgattatt gactagttat taatagtaat caattacggg	180
gtcattagtt catagcccat atatggagtt ccgcgttaca taacttacgg taaatggccc	240

gcctggctga ccgccaacg acccccgccc attgacgtca ataatgacgt atgttcccat	300
agtaacgcca atagggactt tccattgacg tcaatgggtg gagtatttac ggtaaactgc	360
ccacttggca gtacatcaag tgtatcatat gccaaagtacg cccctattg acgtcaatga	420
cggtaaattg cccgcctggc attatgcccc gtacatgacc ttatgggact ttcctacttg	480
gcagtacatc tacgtattag tcatcgctat taccatgggtg atgcggtttt ggcagtacat	540
caatgggcgt ggatagcggg ttgactcacg gggatttcca agtctccacc ccattgacgt	600
caatgggagt ttgttttggc accaaaatca acgggacttt caaaatgtc gtaacaactc	660
cgccccattg acgcaaattg gcggtaggcg tgtacgggtg gaggtctata taagcagagc	720
tctccctatc agtgatagag atctccctat cagtgataga gatcgtcgac gagctcgttt	780
agtgaaccgt cagatcgctt ggagacgcca tccacgctgt ttgacctcc atagaagaca	840
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gaaggacaag caggatgagg agcagcggac ccggagaatg atgaggacaa agatgcgcat	1020
gaggcgcatt cgagagaaca ggcgaagat gcggagaaag atgtctccag caaggcctag	1080

aaccagctgc agggaggcat gtctgcaggg atggacagag gcagcatacg agggaggcaga 1140

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aacttgTTTA ttgcagctta taatggTTac aaataaagca atagcatcac aaatttcaca 1320

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<212> ADN

<213> Secuencia artificial

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<223> Descripción de la secuencia artificial: Polinucleótido
sintético

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agtagaatca taaagaacag tgacggatcc cgcgacttcg ccgcatggg ccagaaggaa 180

cagattcata cgcttcagaa aaattctgaa cgaatgtcaa agcaattgac acgaagttct	240
caggcagtaa tgaaggacaa acaagacgaa gaacaacgaa ctaggcggat gatgaggact	300
aagatgagga tgcggaggat gagacggacg cgacgcaaga tgcgccggaa aatgtctccc	360
gcccggccaa ggacgtcttg tcgggaagcc tgtttgcagg gctggaccga agcagcttac	420
gaagaagcag aagacaattg tcggcgaatg atgagaacga aggctgctta cgtgcttaac	480
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<213> Secuencia artificial

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<223> Descripción de la secuencia artificial: Polinucleótido
sintético

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cggatgatga ggactaagat gaggatgcgg aggatgagac ggacgcgacg caagatgcgc	180
cggaaaatgt ctcccgcccg gccaaaggacg tcttgtcggg aagcctgttt gcagggctgg	240
accgaagcag cttacgaaga agcagaagac aattgtcggc gaatgatgag aacgaaggct	300
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<210> 27

<211> 284

<212> ADN

<213> Secuencia artificial

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<223> Descripción de la secuencia artificial: Polinucleótido
sintético

<400> 27

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aggacgtctt gtcggaagc ctgtttgcag ggctggaccg aagcagctta cgaagaagca	180
gaagacaatt gtcggcgaat gatgagaacg aaggctgctt acgtgcttaa ctatggagtg	240

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284

<210> 28

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<212> PRT

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sintético

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Phe Cys Gly Asp Glu Asn Ile Leu Val Ala Ala Tyr Phe Cys Gly Asp

1

5

10

15

Glu Asn Ile Leu Val

20

<210> 29

<211> 28

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<223> Descripción de la secuencia artificial: Péptido
sintético

<400> 29

Met Gly Gln Lys Glu Gln Ile His Thr Leu Gln Lys Asn Ser Glu Arg

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Met Ser Lys Gln Leu Thr Arg Ser Ser Gln Ala Val

20 25

<210> 30

<211> 84

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<213> Secuencia artificial

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<223> Descripción de la secuencia artificial: Oligonucleótido
sintético

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ttgacacgaa gttctcaggc agta 84

<210> 31

<211> 123

<212> PRT

<213> Secuencia artificial

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<223> Descripción de la secuencia artificial: Polipéptido
sintético

<400> 31

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

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

Met Arg Arg Met Arg Arg Thr Arg Arg Lys Met Arg Arg Lys Met Ser
50 55 60

Pro Ala Arg Pro Arg Thr Ser Cys Arg Glu Ala Cys Leu Gln Gly Trp
65 70 75 80

Thr Glu Ala Ala Tyr Glu Glu Ala Glu Asp Asn Cys Arg Arg Met Met
85 90 95

Arg Thr Lys Ala Ala Tyr Val Leu Asn Tyr Gly Val Cys Phe Cys Ala

100

105

110

Ala Tyr Phe Cys Gly Asp Glu Asn Ile Leu Val

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120

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<212> ADN

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<223> Descripción de la secuencia artificial: Polinucleótido
sintético

<400> 32

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<223> Descripción de la secuencia artificial: Polinucleótido
sintético

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<211> 29

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<213> Secuencia artificial

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<223> Descripción de la secuencia artificial: Oligonucleótido
sintético

<400> 34

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<210> 35

<211> 105

<212> ADN

<213> Secuencia artificial

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<223> Descripción de la secuencia artificial: Polinucleótido
sintético

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<210> 36

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<212> ADN

<213> Secuencia artificial

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<223> Descripción de la secuencia artificial: Oligonucleótido
sintético

<400> 36

ctctctacgg ctaacctgaa tgga 24

<210> 37

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<212> ADN

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sintético

<400> 37

taatacgact cactatag

18

<210> 38

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<223> Descripción de la secuencia artificial: Oligonucleótido
sintético

<400> 38

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39

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<212> ADN

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atccttgaca ttgga 195

<210> 40

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<212> ADN

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sintético

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<211> 66

<212> ADN

<213> Secuencia artificial

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sintético

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ggacct 66

<210> 42

<211> 141

<212> ADN

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<223> Descripción de la secuencia artificial: Polinucleótido
sintético

<400> 42

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<210> 43

<211> 5796

<212> ADN

<213> Secuencia artificial

<220>

<223> Descripción de la secuencia artificial: Polinucleótido
sintético

<400> 43

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<210> 44

<211> 2382

<212> ADN

<213> Secuencia artificial

<220>

<223> Descripción de la secuencia artificial: Polinucleótido
sintético

<400> 44

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atccaccctc tcgctgaaca agtcatagtg ataacacact ctggccgaaa agggcggttat	180
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<210> 45

<211> 1821

<212> ADN

<213> Secuencia artificial

<220>

<223> Descripción de la secuencia artificial: Polinucleótido
sintético

<400> 45

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<210> 46

<211> 1671

<212> ADN

<213> Secuencia artificial

<220>

<223> Descripción de la secuencia artificial: Polinucleótido
sintético

<400> 46

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<210> 47

<211> 1602

<212> ADN

<213> Secuencia artificial

<220>

<223> Descripción de la secuencia artificial: Polinucleótido
sintético

<400> 47

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cgtagaggga tgtccattct tagaaagaag tatttgaaac catccaacaa tgttctattc	720
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gaagccgagg agttgcgcgc agctctacca cctttggcag ctgatgttga ggagcccact	1560
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<211> 798

<212> ADN

<213> Secuencia artificial

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<223> Descripción de la secuencia artificial: Polinucleótido
sintético

<400> 48

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<211> 44

<212> ADN

<213> Secuencia artificial

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<223> Descripción de la secuencia artificial: Oligonucleótido
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<400> 50

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<211> 117

<212> ADN

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<223> Descripción de la secuencia artificial: Polinucleótido
sintético

<400> 51

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<210> 52

<211> 845

<212> ADN

<213> Secuencia artificial

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<223> Descripción de la secuencia artificial: Polinucleótido
sintético

<400> 52

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cctatcagtg atagagatct ccctatcagt gatagagatc gtcgacgagc tcgtttagtg	720
aaccgtcaga tcgcctggag acgccatcca cgctgttttg acctccatag aagacaccgg	780
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<210> 53

<211> 227

<212> ADN

<213> Secuencia artificial

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<223> Descripción de la secuencia artificial: Polinucleótido
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<400> 53

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tgagtaggtg tcattctatt ctgggggggtg ggggtggggca ggacagcaag ggggaggatt 180

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<210> 54

<211> 77

<212> PRT

<213> Secuencia artificial

<220>

<223> Descripción de la secuencia artificial: Polipéptido
sintético

<400> 54

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10

15

Val Glu Pro Ser Asp Thr Ile Glu Asn Val Lys Ala Lys Ile Gln Asp

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25

30

Lys Glu Gly Ile Pro Pro Asp Gln Gln Arg Leu Ile Phe Ala Gly Lys

35

40

45

Gln Leu Glu Asp Gly Arg Thr Leu Ser Asp Tyr Asn Ile Gln Lys Glu

50

55

60

Ser Thr Leu His Leu Val Leu Arg Leu Arg Gly Val Arg

65

70

75