

LISTADO DE SECUENCIAS

<110> CytomX Therapeutics, Inc.

<120> COMPUESTOS RELACIONADOS CON AURISTATINA, COMPUESTOS RELACIONADOS
CON
AURISTATINA CONJUGADOS Y MÉTODOS DE USO DE ELLOS

<130> CYTX-070-PCT

<150> US 62/957 780

<151> 2020-01-06

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<170> PatentIn versión 3.5

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Ser Tyr Asp Met His
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Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys
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Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
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Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val Pro
 50 55 60

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

Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Ala
 85 90 95

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

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

Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
 130 135 140

Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
 145 150 155 160

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
 165 170 175

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

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

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Asn Leu Gln Pro
 65 70 75 80

Glu Asp Phe Ala Ser Tyr Tyr Cys Gln Gln Ala Asn Ser Phe Pro Leu
 85 90 95

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala
 100 105 110

Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly
 115 120 125

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

Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln
 145 150 155 160

Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser
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Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr

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

Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val
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Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe
165 170 175

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

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

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

Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu
225 230 235 240

Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr
245 250 255

Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val
260 265 270

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

Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser
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Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu
305 310 315 320

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

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

Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln
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Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala
 370 375 380

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

Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu
 405 410 415

Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser
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Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser
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Leu Ser Pro Gly Lys
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Ala Asn Ile Lys Lys Asp Gly Ser Glu Lys Phe Tyr Val Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr

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Gly	Ala	Leu	Thr	Ser 165	Gly	Val	His	Thr	Phe 170	Pro	Ala	Val	Leu	Gln 175	Ser
Ser	Gly	Leu	Tyr 180	Ser	Leu	Ser	Ser	Val 185	Val	Thr	Val	Pro	Ser 190	Ser	Ser
Leu	Gly 195	Thr	Gln	Thr	Tyr	Ile	Cys 200	Asn	Val	Asn	His	Lys 205	Pro	Ser	Asn
Thr 210	Lys	Val	Asp	Lys	Lys	Val 215	Glu	Pro	Lys	Ser	Cys 220	Asp	Lys	Thr	His
Thr 225	Cys	Pro	Pro	Cys	Pro 230	Ala	Pro	Glu	Leu	Leu 235	Gly	Gly	Pro	Ser	Val 240
Phe	Leu	Phe	Pro	Pro 245	Lys	Pro	Lys	Asp	Thr 250	Leu	Met	Ile	Ser	Arg 255	Thr
Pro	Glu	Val	Thr 260	Cys	Val	Val	Val	Asp 265	Val	Ser	His	Glu	Asp 270	Pro	Glu
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Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser
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Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys
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Cys Lys Val Ser Asn Lys Ala Cys Pro Ala Pro Ile Glu Lys Thr Ile
325 330 335

Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro
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Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu
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Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn
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Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser
385 390 395 400

Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg
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Arg Ala Ser Gln Ser Ile Ser Arg Phe Leu Asn
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Val Thr Ser Ser Leu Gln Ser
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Gln Gln Ser Tyr Asn Thr Pro Ile Thr
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Gln Gln Ser Tyr Ser Val Pro Ile Thr
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<210> 43
<211> 5
<212> PRT
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<220>
<223> Sintética

<400> 43

Ser Tyr Val Met His
1 5

<210> 44
<211> 17
<212> PRT
<213> Secuencia artificial
<220>
<223> Sintética

<400> 44

Gly Val Ser Ser Ser Gly Asp Ser Thr Phe Tyr Val Asp Ser Val Lys
1 5 10 15

Gly

<210> 45

<211> 12

<212> PRT

<213> Secuencia artificial

<220>

<223> Sintética

<400> 45

Gly Gly Ile Thr Gly Ala Pro Leu Val Phe Asp Ile
1 5 10

<210> 46

<211> 5

<212> PRT

<213> Secuencia artificial

<220>

<223> Sintética

<400> 46

Ser His Ile Met Tyr
1 5

<210> 47

<211> 17

<212> PRT

<213> Secuencia artificial

<220>

<223> Sintética

<400> 47

Gly Ile Ser Ser Asn Gly Leu Ser Ser Tyr Tyr Val Asp Ser Val Lys
1 5 10 15

Gly

<210> 48
<211> 12
<212> PRT
<213> Secuencia artificial
<220>
<223> Sintética

<400> 48

Gly Gly Arg Asp Arg Val Pro Ala Val Phe Asp Tyr
1 5 10

<210> 49
<211> 23
<212> PRT
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<220>
<223> Sintética

<400> 49

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

Asp Arg Val Thr Ile Thr Cys
20

<210> 50
<211> 15
<212> PRT
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<220>
<223> Sintética

<400> 50

Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Val Leu Ile Tyr
1 5 10 15

<210> 51
<211> 32
<212> PRT
<213> Secuencia artificial
<220>
<223> Sintética

<400> 51

Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
1 5 10 15

Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys
20 25 30

<210> 52
<211> 11
<212> PRT
<213> Secuencia artificial
<220>
<223> Sintética

<400> 52

Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys Arg
1 5 10

<210> 53
<211> 23
<212> PRT
<213> Secuencia artificial
<220>
<223> Sintética

<400> 53

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

Asp Arg Val Thr Ile Thr Cys
20

<210> 54
<211> 15
<212> PRT
<213> Secuencia artificial
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<223> Sintética

<400> 54

Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Val Leu Ile Tyr
1 5 10 15

<210> 55
<211> 32
<212> PRT
<213> Secuencia artificial
<220>

<223> Sintética

<400> 55

Gly Val Pro Ser Arg Phe Ile Gly Ser Gly Ser Gly Thr Asp Phe Thr
1 5 10 15

Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys
20 25 30

<210> 56

<211> 11

<212> PRT

<213> Secuencia artificial

<220>

<223> Sintética

<400> 56

Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys Arg
1 5 10

<210> 57

<211> 30

<212> PRT

<213> Secuencia artificial

<220>

<223> Sintética

<400> 57

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

<210> 58

<211> 14

<212> PRT

<213> Secuencia artificial

<220>

<223> Sintética

<400> 58

Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Tyr Val Ser
1 5 10

<210> 59
<211> 32
<212> PRT
<213> Secuencia artificial
<220>
<223> Sintética

<400> 59

Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln
1 5 10 15

Met Gly Ser Leu Arg Ala Glu Asp Met Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 60
<211> 11
<212> PRT
<213> Secuencia artificial
<220>
<223> Sintética

<400> 60

Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser
1 5 10

<210> 61
<211> 30
<212> PRT
<213> Secuencia artificial
<220>
<223> Sintética

<400> 61

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Trp Val Gln Pro Gly Gly
1 5 10 15

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

<210> 62
<211> 14
<212> PRT
<213> Secuencia artificial
<220>
<223> Sintética

<400> 62

Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Tyr Val Ser
1 5 10

<210> 63

<211> 32

<212> PRT

<213> Secuencia artificial

<220>

<223> Sintética

<400> 63

Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Leu Leu Tyr Val His
1 5 10 15

Met Gly Ser Leu Lys Pro Glu Asp Met Ala Met Tyr Tyr Cys Ala Arg
20 25 30

<210> 64

<211> 11

<212> PRT

<213> Secuencia artificial

<220>

<223> Sintética

<400> 64

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
1 5 10

<210> 65

<211> 214

<212> PRT

<213> Secuencia artificial

<220>

<223> Sintética

<400> 65

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

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Arg Phe
20 25 30

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

Tyr Val Thr Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Asn Thr Pro Ile
85 90 95

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

Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly
115 120 125

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

Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln
145 150 155 160

Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser
165 170 175

Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr
180 185 190

Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser
195 200 205

Phe Asn Arg Gly Glu Cys
210

<210> 66
<211> 214
<212> PRT
<213> Secuencia artificial
<220>
<223> Sintética

<400> 66

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

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Gly Thr Phe
20 25 30

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

Tyr Val Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ile Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

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

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

Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly
115 120 125

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

Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln
145 150 155 160

Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser
165 170 175

Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr
180 185 190

Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser
195 200 205

Phe Asn Arg Gly Glu Cys
210

<210> 67
<211> 451
<212> PRT
<213> Secuencia artificial
<220>
<223> Sintética

<400> 67

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

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

Ser Gly Val Ser Ser Ser Gly Asp Ser Thr Phe Tyr Val Asp Ser Val
50 55 60

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

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

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

Gln Gly Thr Met Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser
115 120 125

Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala
130 135 140

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

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

Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val
180 185 190

Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His
195 200 205

Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys
210 215 220

Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly
225 230 235 240

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

Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His
260 265 270

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

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

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

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

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

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

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

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

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

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

His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser
 435 440 445

Pro Gly Lys
 450

<210> 68
 <211> 451
 <212> PRT
 <213> Secuencia artificial
 <220>
 <223> Sintética
 <400> 68

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Trp Val Gln Pro Gly Gly
 1 5 10 15

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

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

Ser Gly Ile Ser Ser Asn Gly Leu Ser Ser Tyr Tyr Val Asp Ser Val
 50 55 60

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

Val His Met Gly Ser Leu Lys Pro Glu Asp Met Ala Met Tyr Tyr Cys
 85 90 95

Ala Arg Gly Gly Arg Asp Arg Val Pro Ala Val Phe Asp Tyr Trp Gly
100 105 110

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

Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala
130 135 140

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

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

Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val
180 185 190

Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His
195 200 205

Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys
210 215 220

Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly
225 230 235 240

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

Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His
260 265 270

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

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

Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly

305 310 315 320

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

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

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

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

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

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

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

His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser
435 440 445

Pro Gly Lys
450

<210> 69
<211> 642
<212> DNA
<213> Secuencia artificial
<220>
<223> Sintética

<400> 69
gacatccaga tgaccagtc tccatcctcc ctgtctgcat ctgtaggaga cagagtcacc
60

atcacttgcc gggcaagtca gagcattagc aggtttttaa attggtatca gcagaaacca
120

gggaaagccc ctaaggtcct gatctatggt acatccagtt tacaaagtgg ggtcccatca
180

aggttcagtg gcagtggatc tgggacagat ttcactctca ccatcagcag tctgcaacct
240

gaagattttg caacttatta ctgtcaacag agttacaata cccctatcac cttcggccaa
300

gggacacgac tggagattaa acggactgtc gctgcaccat ctgtcttcat cttcccgcca
360

tctgatgagc agttgaaatc tggaactgcc tctgttgtgt gcctgctgaa taacttctat
420

cccagagagg ccaaagtaca gtggaaggtg gataacgccc tccaatcggg taactcccag
480

gagagtgtca cagagcagga cagcaaggac agcacctaca gcctcagcag caccctgacg
540

ctgagcaaag cagactacga gaaacacaaa gtctacgcct gcgaagtcac ccatcagggc
600

ctgagctcgc ccgtcacaaa gagcttcaac aggggagagt gt
642

<210> 70

<211> 642

<212> DNA

<213> Secuencia artificial

<220>

<223> Sintética

<400> 70

gacatccaga tgacccagtc tccatcctcc ctgtctgcat ctataggaga cagagtcacc
60

atcacttgcc gggcaagtca gagcattggc acctttttaa attggtatca acaaaaacca
120

gggaaagccc ctaaggtcct gatctatggt gcatccagtt tgcaaagtgg ggtcccatca
180

aggttcattg gcagtggatc tgggacagat ttcactctca ccatcagcag tctgcaacct
240

gaagattttg caacttacta ctgtcaacag agttacagtg ttccgatcac cttcggccaa
300

gggacacgac tggagattaa acggactgtc gctgcaccat ctgtcttcat cttcccgcca
360

tctgatgagc agttgaaatc tggaactgcc tctgttgtgt gcctgctgaa taacttctat
420

cccagagagg ccaaagtaca gtggaagggtg gataacgccc tccaatcggg taactcccag
480

gagagtgtca cagagcagga cagcaaggac agcacctaca gcctcagcag caccctgacg
540

ctgagcaaag cagactacga gaaacacaaa gtctacgcct gcgaagtcac ccatcagggc
600

ctgagctcgc ccgtcacaaa gagcttcaac aggggagagt gt
642

<210> 71

<211> 1353

<212> DNA

<213> Secuencia artificial

<220>

<223> Sintética

<400> 71

gaggtgcagc tgggtggagtc tgggggaggc ttggtccagc ctgggggggtc cctgagactc
60

tcctgtgcag cctctggatt caccttcagt agttatgtta tgcactgggt ccgccaggct
120

ccaggggaagg gactggaata tgtttcaggt gttagtagta gtggggatag cacattttat
180

gtagactctg tgaagggcag attcaccatc tccagagaca attccaagaa cacgctttat
240

cttcaaatgg gcagcctgag agctgaggac atggctgtgt attactgtgc gagaggggggt
300

ataactggag ctccactggt ttttgatata tggggccaag ggacaatggt caccgtctct
360

tcagcatcca ccaagggccc atcgggtcttc cccctggcac cctcctccaa gagcacctct
420

gggggcacag cggccctggg ctgcctggtc aaggactact tccccgaacc ggtgacgggtg
480

tcgtggaact caggcgccct gaccagcggc gtgcacacct tcccggctgt cctacagtcc
540

tcaggactct actccctcag cagcgtggtg accgtgccct ccagcagctt gggcaccag
600

acctacatct gcaacgtgaa tcacaagccc agcaacacca aggtggacaa gaaagttgag
660

cccaaattctt gtgacaaaac tcacacatgc ccaccgtgcc cagcacctga actcctgggg
720

ggaccgtcag tcttcctctt ccccccaaaa cccaaggaca ccctcatgat ctcccggacc
780

cctgagggtca catgcgtggt ggtggacgtg agccacgaag accctgaggt caagttcaac
840

tggtacgtgg acggcgtgga ggtgcataat gccaaagacaa agccgcggga ggagcagtac
900

aacagcacgt accgtgtggt cagcgtcctc accgtcctgc accaggactg gctgaatggc
960

aaggagtaca agtgcaaggt ctccaacaaa gcctgcccag ccccatcga gaaaaccatc
1020

tccaaagcca aagggcagcc ccgagaacca cagggtgtaca ccctgcccc atcccgggag
1080

gagatgacca agaaccaggt cagcctgacc tgccctgggtca aaggcttcta tcccagcgac
1140

atcgccgtgg agtgggagag caatgggcag ccggagaaca actacaagac cagcctccc
1200

gtgctggact ccgacggctc cttcttcctc tatagcaagc tcaccgtgga caagagcagg
1260

tggcagcagg ggaacgtctt ctcatgtctc gtgatgcatg aggctctgca caaccactac
1320

acgcagaaga gcctctccct gtctccgggt aaa
1353

<210> 72

<211> 1353

<212> DNA

<213> Secuencia artificial

<220>

<223> Sintética

<400> 72

gaggtgcaac tgggtggagtc tgggggaggc tgggtccagc cggggggggtc cctgagactc
60

tcctgtgcag cctctggatt caccttcagt agtcatatta tgtactgggt ccgccaggct
120

ccaggggaagg gactggaata tgtttcgggt attagcagta atggacttag ctcatattat
180

gttgactctg tgaagggcag attcaccatc tccagagaca attccaagaa tttactgtat
240

gttcatatgg gcagcctgaa acctgaggac atggctatgt attactgtgc gagagggggc
300

cgggatagag tgccagctgt ctttgactac tggggccagg gaaccctggt caccgtctcc
360

tccgcttcca ccaagggccc atcgggtcttc cccctggcac cctcctccaa gagcacctct
420

gggggcacag cggccctggg ctgcctggtc aaggactact tccccgaacc ggtgacggtg
480

tcgtggaact caggcgcctt gaccagcggc gtgcacacct tcccggctgt cctacagtcc
540

tcaggactct actccctcag cagcgtgggt accgtgccct ccagcagctt gggcaccag
600

acctacatct gcaacgtgaa tcacaagccc agcaacacca aggtggacaa gaaagttgag
660

cccaaattctt gtgacaaaac tcacacatgc ccaccgtgcc cagcacctga actcctgggg
720

ggaccgtcag tcttcctctt cccccaaaaa cccaaggaca ccctcatgat ctcccgacc
780

cctgaggtca catgcgtggt ggtggacgtg agccacgaag accctgaggt caagttcaac
840

tggtacgtgg acggcgtgga ggtgcataat gccaagacaa agccgcggga ggagcagtac
900

aacagcacgt accgtgtggt cagcgtcctc accgtcctgc accaggactg gctgaatggc
960

aaggagtaca agtgcaaggt ctccaacaaa gcctgcccag ccccatcga gaaaaccatc
1020

tccaaagcca aagggcagcc ccgagaacca caggtgtaca ccctgcccc atcccgagg
1080

gagatgacca agaaccaggt cagcctgacc tgcttggtca aaggcttcta tcccagcgac
1140

atgccgtgg agtgggagag caatgggcag ccggagaaca actacaagac cagcctccc
1200

gtgctggact ccgacggctc cttcttcctc tatagcaagc tcaccgtgga caagagcagg
1260

tggcagcagg ggaacgtctt ctcattgctc gtgatgcatg aggctctgca caaccactac
1320

acgcagaaga gcctctccct gtctccgggt aaa
1353