

P-2017-13682 - LISTADO DE SECUENCIAS
LISTADO DE SECUENCIAS

<110> bluebird bio, Inc.

<120> RECEPTORES DE ANTÍGENOS QUIMÉRICOS DE BCMA

<130> BLBD-043/02W0

<160> 36

<170> PatentIn versión 3.5

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<211> 15

<212> PRT

<213> Mus musculus

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Arg Ala Ser Glu Ser Val Thr Ile Leu Gly Ser His Leu Ile His
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<210> 2

<211> 7

<212> PRT

<213> mus musculus

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Leu Ala Ser Asn Val Gln Thr
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<210> 3

<211> 9

<212> PRT

<213> mus musculus

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<210> 4

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<210> 5

<211> 17

<212> PRT

<213> Mus musculus

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Trp Ile Asn Thr Glu Thr Arg Glu Pro Ala Tyr Ala Tyr Asp Phe Arg
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Gly

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 <213> Mus musculus

<400> 6

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<210> 7
 <211> 111
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<400> 7

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

Thr Leu Leu Ile Gln Leu Ala Ser Asn Val Gln Thr Gly Val Pro Ala
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Arg Phe Ser Gly Ser Gly Ser Arg Thr Asp Phe Thr Leu Thr Ile Asp
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Pro Val Glu Glu Asp Asp Val Ala Val Tyr Tyr Cys Leu Gln Ser Arg
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Thr Ile Pro Arg Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
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<210> 8
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 <213> Mus musculus

<400> 8

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

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Gly Trp Ile Asn Thr Glu Thr Arg Glu Pro Ala Tyr Ala Tyr Asp Phe
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Arg Gly Arg Phe Ala Phe Ser Leu Glu Thr Ser Ala Ser Thr Ala Tyr
65 70 75 80

Leu Gln Ile Asn Asn Leu Lys Tyr Glu Asp Thr Ala Thr Tyr Phe Cys
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Ala Leu Asp Tyr Ser Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr Ser
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Val Thr Val Ser Ser
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<210> 9
<211> 493
<212> PRT
<213> Secuencia artificial

<220>
<223> CAR anti-BCMA02

<400> 9

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1 5 10 15

His Ala Ala Arg Pro Asp Ile Val Leu Thr Gln Ser Pro Pro Ser Leu
20 25 30

Ala Met Ser Leu Gly Lys Arg Ala Thr Ile Ser Cys Arg Ala Ser Glu
35 40 45

Ser Val Thr Ile Leu Gly Ser His Leu Ile His Trp Tyr Gln Gln Lys
50 55 60

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

Thr Gly Val Pro Ala Arg Phe Ser Gly Ser Gly Ser Arg Thr Asp Phe
85 90 95

Thr Leu Thr Ile Asp Pro Val Glu Glu Asp Asp Val Ala Val Tyr Tyr
100 105 110

Cys Leu Gln Ser Arg Thr Ile Pro Arg Thr Phe Gly Gly Gly Thr Lys
115 120 125

Leu Glu Ile Lys Gly Ser Thr Ser Gly Ser Gly Lys Pro Gly Ser Gly
130 135 140

Glu Gly Ser Thr Lys Gly Gln Ile Gln Leu Val Gln Ser Gly Pro Glu
145 150 155 160

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Leu Lys Lys Pro Gly Glu Thr Val Lys Ile Ser Cys Lys Ala Ser Gly
165 170 175

Tyr Thr Phe Thr Asp Tyr Ser Ile Asn Trp Val Lys Arg Ala Pro Gly
180 185 190

Lys Gly Leu Lys Trp Met Gly Trp Ile Asn Thr Glu Thr Arg Glu Pro
195 200 205

Ala Tyr Ala Tyr Asp Phe Arg Gly Arg Phe Ala Phe Ser Leu Glu Thr
210 215 220

Ser Ala Ser Thr Ala Tyr Leu Gln Ile Asn Asn Leu Lys Tyr Glu Asp
225 230 235 240

Thr Ala Thr Tyr Phe Cys Ala Leu Asp Tyr Ser Tyr Ala Met Asp Tyr
245 250 255

Trp Gly Gln Gly Thr Ser Val Thr Val Ser Ser Ala Ala Ala Thr Thr
260 265 270

Thr Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln
275 280 285

Pro Leu Ser Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala
290 295 300

Val His Thr Arg Gly Leu Asp Phe Ala Cys Asp Ile Tyr Ile Trp Ala
305 310 315 320

Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu Ser Leu Val Ile Thr
325 330 335

Leu Tyr Cys Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln
340 345 350

Pro Phe Met Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser
355 360 365

Cys Arg Phe Pro Glu Glu Glu Glu Gly Gly Cys Glu Leu Arg Val Lys
370 375 380

Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly Gln Asn Gln
385 390 395 400

Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu
405 410 415

Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg
420 425 430

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Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met
435 440 445

Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly
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Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp
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Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
485 490

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<223> CAR anti-BCMA02

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<211> 184
<212> PRT
<213> Homo sapiens

<400> 11

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Leu Leu His Ala Cys Ile Pro Cys Gln Leu Arg Cys Ser Ser Asn Thr
20 25 30

Pro Pro Leu Thr Cys Gln Arg Tyr Cys Asn Ala Ser Val Thr Asn Ser
35 40 45

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

Ile Ile Ser Leu Ala Val Phe Val Leu Met Phe Leu Leu Arg Lys Ile
65 70 75 80

Asn Ser Glu Pro Leu Lys Asp Glu Phe Lys Asn Thr Gly Ser Gly Leu
85 90 95

Leu Gly Met Ala Asn Ile Asp Leu Glu Lys Ser Arg Thr Gly Asp Glu
100 105 110

Ile Ile Leu Pro Arg Gly Leu Glu Tyr Thr Val Glu Glu Cys Thr Cys
115 120 125

Glu Asp Cys Ile Lys Ser Lys Pro Lys Val Asp Ser Asp His Cys Phe
130 135 140

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

Thr Asn Asp Tyr Cys Lys Ser Leu Pro Ala Ala Leu Ser Ala Thr Glu
165 170 175

Ile Glu Lys Ser Ile Ser Ala Arg
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<210> 12
<211> 5
<212> PRT

<213> Secuencia artificial

<220>

<223> Enlazador peptídico flexible

<400> 12

Asp Gly Gly Gly Ser
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<210> 13

<211> 5

<212> PRT

<213> Secuencia artificial

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<223> Enlazador peptídico flexible

<400> 13

Thr Gly Glu Lys Pro
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<210> 14

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<223> Enlazador peptídico flexible

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Gly Gly Arg Arg
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<210> 15

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<223> Enlazador peptídico flexible

<400> 15

Gly Gly Gly Gly Ser
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<210> 16

<211> 14

<212> PRT

<213> Secuencia artificial

<220>

<223> Enlazador peptídico flexible

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<210> 17

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 <223> Enlazador peptídico flexible

 <400> 17
 Lys Glu Ser Gly Ser Val Ser Ser Glu Gln Leu Ala Gln Phe Arg Ser
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Leu Asp

<210> 18
 <211> 8
 <212> PRT
 <213> Secuencia artificial

 <220>
 <223> Enlazador peptídico flexible

 <400> 18
 Gly Gly Arg Arg Gly Gly Gly Ser
 1 5

<210> 19
 <211> 9
 <212> PRT
 <213> Secuencia artificial

 <220>
 <223> Enlazador peptídico flexible

 <400> 19
 Leu Arg Gln Arg Asp Gly Glu Arg Pro
 1 5

<210> 20
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 <212> PRT
 <213> Secuencia artificial

 <220>
 <223> Enlazador peptídico flexible

 <400> 20
 Leu Arg Gln Lys Asp Gly Gly Gly Ser Glu Arg Pro
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<210> 21
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 <212> PRT
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 <223> Enlazador peptídico flexible

 <400> 21

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

<210> 22
<211> 18
<212> PRT
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<220>
<223> Enlazador peptídico flexible

<400> 22

Gly Ser Thr Ser Gly Ser Gly Lys Pro Gly Ser Gly Glu Gly Ser Thr
1 5 10 15

Lys Gly

<210> 23
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<212> PRT
<213> Secuencia artificial

<220>
<223> lugar de escisión de proteasa

<220>
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<222> (2)..(3)
<223> Xaa = Cualquier aminoácido

<220>
<221> MISC_FEATURE
<222> (5)..(5)
<223> Xaa = Cualquier aminoácido

<220>
<221> MISC_FEATURE
<222> (7)..(7)
<223> Xaa es Gly or Ser

<400> 23

Glu Xaa Xaa Tyr Xaa Gln Xaa
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<210> 24
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<212> PRT
<213> Secuencia artificial

<220>
<223> lugar de escisión de proteasa

<400> 24

Glu Asn Leu Tyr Phe Gln Gly
1 5

<210> 25

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<211> 7
 <212> PRT
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<220>
 <223> lugar de escisión de proteasa

<400> 25

Glu Asn Leu Tyr Phe Gln Ser
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<210> 26
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 <223> lugar de escisión de proteasa

<400> 26

Leu Leu Asn Phe Asp Leu Leu Lys Leu Ala Gly Asp Val Glu Ser Asn
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Pro Gly Pro

<210> 27
 <211> 19
 <212> PRT
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<400> 27

Thr Leu Asn Phe Asp Leu Leu Lys Leu Ala Gly Asp Val Glu Ser Asn
 1 5 10 15

Pro Gly Pro

<210> 28
 <211> 14
 <212> PRT
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<220>
 <223> lugar de escisión de proteasa

<400> 28

Leu Leu Lys Leu Ala Gly Asp Val Glu Ser Asn Pro Gly Pro
 1 5 10

<210> 29
 <211> 17
 <212> PRT
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<220>

<223> lugar de escisión de proteasa

<400> 29

Asn Phe Asp Leu Leu Lys Leu Ala Gly Asp Val Glu Ser Asn Pro Gly
1 5 10 15

Pro

<210> 30

<211> 20

<212> PRT

<213> Secuencia artificial

<220>

<223> lugar de escisión de proteasa

<400> 30

Gln Leu Leu Asn Phe Asp Leu Leu Lys Leu Ala Gly Asp Val Glu Ser
1 5 10 15

Asn Pro Gly Pro
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<210> 31

<211> 24

<212> PRT

<213> Secuencia artificial

<220>

<223> lugar de escisión de proteasa

<400> 31

Ala Pro Val Lys Gln Thr Leu Asn Phe Asp Leu Leu Lys Leu Ala Gly
1 5 10 15

Asp Val Glu Ser Asn Pro Gly Pro
20

<210> 32

<211> 40

<212> PRT

<213> Secuencia artificial

<220>

<223> lugar de escisión de proteasa

<400> 32

Val Thr Glu Leu Leu Tyr Arg Met Lys Arg Ala Glu Thr Tyr Cys Pro
1 5 10 15

Arg Pro Leu Leu Ala Ile Hes Pro Thr Glu Ala Arg Hes Lys Gln Lys
20 25 30

Ile Val Ala Pro Val Lys Gln Thr

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35

40

<210> 33
<211> 18
<212> PRT
<213> Secuencia artificial

<220>
<223> lugar de escisión de proteasa

<400> 33

Leu Asn Phe Asp Leu Leu Lys Leu Ala Gly Asp Val Glu Ser Asn Pro
1 5 10 15

Gly Pro

<210> 34
<211> 40
<212> PRT
<213> Secuencia artificial

<220>
<223> lugar de escisión de proteasa

<400> 34

Leu Leu Ala Ile Hes Pro Thr Glu Ala Arg Hes Lys Gln Lys Ile Val
1 5 10 15

Ala Pro Val Lys Gln Thr Leu Asn Phe Asp Leu Leu Lys Leu Ala Gly
20 25 30

Asp Val Glu Ser Asn Pro Gly Pro
35 40

<210> 35
<211> 33
<212> PRT
<213> Secuencia artificial

<220>
<223> lugar de escisión de proteasa

<400> 35

Glu Ala Arg Hes Lys Gln Lys Ile Val Ala Pro Val Lys Gln Thr Leu
1 5 10 15

Asn Phe Asp Leu Leu Lys Leu Ala Gly Asp Val Glu Ser Asn Pro Gly
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Pro

<210> 36
<211> 7350
<212> ADN

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<213> Secuencia artificial

<220>

<223> Vector anti-BCMA02 de CAR

<400> 36

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