

P-2017-14446 TRADUCCIÓN LISTADO SECUENCIAS.txt
LISTA DE SECUENCIAS

<110> MedImmune, LLC
<120> SECUENCIAS DE URICASA MEJORADAS Y MÉTODOS DE TRATAMIENTO
<130> UCASE-100W01
<150> US 62/162,280
<151> 2015-05-15
<160> 34
<170> PatentIn versión 3.5
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<213> Secuencia artificial
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<223> Uricasa modificada de Arthrobacter globiformis, extremo N-terminal modificado, SGD, 2-Cys, truncamiento C-terminal (SGD V1 C2)
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Met Ala Thr Ala Glu Thr Ser Thr Gly Cys Lys Val Val Leu Gly Gln
1 5 10 15

Asn Gln Tyr Gly Lys Ala Glu Val Arg Leu Val Lys Val Thr Arg Cys
20 25 30

Thr Ala Arg His Glu Ile Gln Asp Leu Asn Val Thr Ser Gln Leu Ser
35 40 45

Gly Asp Phe Glu Ala Ala His Thr Ala Gly Asp Asn Ala His Val Val
50 55 60

Ala Thr Asp Thr Gln Lys Asn Thr Val Tyr Ala Phe Ala Arg Asp Gly
65 70 75 80

Phe Ala Thr Thr Glu Glu Phe Leu Leu Arg Leu Gly Lys His Phe Thr
85 90 95

Glu Gly Phe Asp Trp Val Thr Gly Gly Arg Trp Ala Ala Gln Gln Phe
100 105 110

Phe Trp Asp Arg Ile Asn Asp His Asp His Ala Phe Ser Arg Asn Lys
115 120 125

Ser Glu Val Arg Thr Ala Val Leu Glu Ile Ser Gly Ser Glu Gln Ala
130 135 140

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

Glu Phe His Gly Phe Pro Arg Asp Lys Tyr Thr Thr Leu Gln Glu Thr
165 170 175

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Thr Asp Arg Ile Leu Ala Thr Asp Val Ser Ala Arg Trp Arg Tyr Asn
180 185 190

Thr Val Glu Val Asp Phe Asp Ala Val Tyr Ala Ser Val Arg Gly Leu
195 200 205

Leu Leu Lys Ala Phe Ala Glu Thr His Ser Leu Ala Leu Gln Gln Thr
210 215 220

Met Tyr Glu Met Gly Arg Ala Val Ile Glu Thr His Pro Glu Ile Asp
225 230 235 240

Glu Ile Lys Met Ser Leu Pro Asn Lys His His Phe Leu Val Asp Leu
245 250 255

Gln Pro Phe Gly Gln Asp Asn Pro Asn Glu Val Phe Tyr Ala Ala Asp
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Arg Pro Tyr Gly Leu Ile Glu Ala Thr Ile Gln Arg Glu Gly Ser Arg
275 280 285

Ala Asp
290

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

Gly Asp Phe Glu Ala Ala His Thr Ala Gly Asp Asn Ala His Val Val
50 55 60

Ala Thr Asp Thr Gln Lys Asn Thr Val Tyr Ala Phe Ala Arg Asp Gly
65 70 75 80

Phe Ala Thr Thr Glu Glu Phe Leu Leu Arg Leu Gly Lys His Phe Thr
85 90 95

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Glu Gly Phe Asp Trp Val Thr Gly Gly Arg Trp Ala Ala Gln Gln Phe
100 105 110

Phe Trp Asp Arg Ile Asn Asp His Asp His Ala Phe Ser Arg Asn Lys
115 120 125

Ser Glu Val Arg Thr Ala Val Leu Glu Ile Ser Gly Ser Glu Gln Ala
130 135 140

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

Glu Phe His Gly Phe Pro Arg Asp Lys Tyr Thr Thr Leu Gln Glu Thr
165 170 175

Thr Asp Arg Ile Leu Ala Thr Asp Val Ser Ala Arg Trp Arg Tyr Asn
180 185 190

Thr Val Glu Val Asp Phe Asp Ala Val Tyr Ala Ser Val Arg Gly Leu
195 200 205

Leu Leu Lys Ala Phe Ala Glu Thr His Ser Leu Ala Leu Gln Gln Thr
210 215 220

Met Tyr Glu Met Gly Arg Ala Val Ile Glu Thr His Pro Glu Ile Asp
225 230 235 240

Glu Ile Lys Met Ser Leu Pro Asn Lys His His Phe Leu Val Asp Leu
245 250 255

Gln Pro Phe Gly Gln Asp Asn Pro Asn Glu Val Phe Tyr Ala Ala Asp
260 265 270

Arg Pro Tyr Gly Leu Ile Glu Ala Thr Ile Gln Arg Glu Gly Ser Arg
275 280 285

Ala Asp
290

<210> 3
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<223> Uricasa modificada de Arthrobacter globiformis, extremo N-terminal modificado, variantes de RGF, 2-Cys, truncamiento C-terminal (variantes de RGD de V1 C2)

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<223> X es R o cualquier aminoácido natural, a excepción de C

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<223> X es G o cualquier aminoácido natural, a excepción de C

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<223> X es D o cualquier aminoácido natural, a excepción de C

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Asn Gln Tyr Gly Lys Ala Glu Val Arg Leu Val Lys Val Thr Arg Cys
20          25          30

Thr Ala Arg His Glu Ile Gln Asp Leu Asn Val Thr Ser Gln Leu Xaa
35          40          45

Xaa Xaa Phe Glu Ala Ala His Thr Ala Gly Asp Asn Ala His Val Val
50          55          60

Ala Thr Asp Thr Gln Lys Asn Thr Val Tyr Ala Phe Ala Arg Asp Gly
65          70          75          80

Phe Ala Thr Thr Glu Glu Phe Leu Leu Arg Leu Gly Lys His Phe Thr
85          90          95

Glu Gly Phe Asp Trp Val Thr Gly Gly Arg Trp Ala Ala Gln Gln Phe
100         105         110

Phe Trp Asp Arg Ile Asn Asp His Asp His Ala Phe Ser Arg Asn Lys
115         120         125

Ser Glu Val Arg Thr Ala Val Leu Glu Ile Ser Gly Ser Glu Gln Ala
130         135         140

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

Glu Phe His Gly Phe Pro Arg Asp Lys Tyr Thr Thr Leu Gln Glu Thr
165         170         175

Thr Asp Arg Ile Leu Ala Thr Asp Val Ser Ala Arg Trp Arg Tyr Asn
180         185         190

Thr Val Glu Val Asp Phe Asp Ala Val Tyr Ala Ser Val Arg Gly Leu
195         200         205

Leu Leu Lys Ala Phe Ala Glu Thr His Ser Leu Ala Leu Gln Gln Thr
210         215         220

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Met Tyr Glu Met Gly Arg Ala Val Ile Glu Thr His Pro Glu Ile Asp
225 230 235 240

Glu Ile Lys Met Ser Leu Pro Asn Lys His His Phe Leu Val Asp Leu
245 250 255

Gln Pro Phe Gly Gln Asp Asn Pro Asn Glu Val Phe Tyr Ala Ala Asp
260 265 270

Arg Pro Tyr Gly Leu Ile Glu Ala Thr Ile Gln Arg Glu Gly Ser Arg
275 280 285

Ala Asp
290

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cisteínas, R/SGD, opcionalmente con o sin truncamiento C-terminal

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<223> Se incluyen al menos una, dos, tres o cuatro cisteínas en la secuencia

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<222> (2)..(2)
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<222> (11)..(11)
<223> X es T o C

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<223> X es N o C

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<223> X es R o S

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<222> (119)..(119)
<223> X es N o C

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<223> X es S o C

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<223> Uno o más aminoácidos en el extremo C-terminal son opcionales

<400> 4

Met Xaa Ala Thr Ala Glu Thr Ser Thr Gly Xaa Lys Val Val Leu Gly
1 5 10 15

Gln Asn Gln Tyr Gly Lys Ala Glu Val Arg Leu Val Lys Val Thr Arg
20 25 30

Xaa Thr Ala Arg His Glu Ile Gln Asp Leu Asn Val Thr Ser Gln Leu
35 40 45

Xaa Gly Asp Phe Glu Ala Ala His Thr Ala Gly Asp Asn Ala His Val
50 55 60

Val Ala Thr Asp Thr Gln Lys Asn Thr Val Tyr Ala Phe Ala Arg Asp
65 70 75 80

Gly Phe Ala Thr Thr Glu Glu Phe Leu Leu Arg Leu Gly Lys His Phe
85 90 95

Thr Glu Gly Phe Asp Trp Val Thr Gly Gly Arg Trp Ala Ala Gln Gln
100 105 110

Phe Phe Trp Asp Arg Ile Xaa Asp His Asp His Ala Phe Ser Arg Asn
115 120 125

Lys Ser Glu Val Arg Thr Ala Val Leu Glu Ile Ser Gly Xaa Glu Gln
130 135 140

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

Ser Glu Phe His Gly Phe Pro Arg Asp Lys Tyr Thr Thr Leu Gln Glu
165 170 175

Thr Thr Asp Arg Ile Leu Ala Thr Asp Val Ser Ala Arg Trp Arg Tyr
180 185 190

Asn Thr Val Glu Val Asp Phe Asp Ala Val Tyr Ala Ser Val Arg Gly
195 200 205

Leu Leu Leu Lys Ala Phe Ala Glu Thr His Ser Leu Ala Leu Gln Gln
210 215 220

Thr Met Tyr Glu Met Gly Arg Ala Val Ile Glu Thr His Pro Glu Ile
225 230 235 240

Asp Glu Ile Lys Met Ser Leu Pro Asn Lys His His Phe Leu Val Asp
245 250 255

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Leu Gln Pro Phe Gly Gln Asp Asn Pro Asn Glu Val Phe Tyr Ala Ala
260 265 270

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

Arg Ala Asp His Pro Ile Trp Ser Asn Ile Ala Gly Phe
290 295 300

<210> 5
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<223> Uno o más aminoácidos en el extremo C-terminal son opcionales

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Met Ala Thr Ala Glu Thr Ser Thr Gly Xaa Lys Val Val Leu Gly Gln
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Asn Gln Tyr Gly Lys Ala Glu Val Arg Leu Val Lys Val Thr Arg Xaa
20 25 30

Thr Ala Arg His Glu Ile Gln Asp Leu Asn Val Thr Ser Gln Leu Ser
35 40 45

Gly Asp Phe Glu Ala Ala His Thr Ala Gly Asp Asn Ala His Val Val
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50

55

60

Ala Thr Asp Thr Gln Lys Asn Thr Val Tyr Ala Phe Ala Arg Asp Gly
65 70 75 80

Phe Ala Thr Thr Glu Glu Phe Leu Leu Arg Leu Gly Lys His Phe Thr
85 90 95

Glu Gly Phe Asp Trp Val Thr Gly Gly Arg Trp Ala Ala Gln Gln Phe
100 105 110

Phe Trp Asp Arg Ile Xaa Asp His Asp His Ala Phe Ser Arg Asn Lys
115 120 125

Ser Glu Val Arg Thr Ala Val Leu Glu Ile Ser Gly Xaa Glu Gln Ala
130 135 140

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

Glu Phe His Gly Phe Pro Arg Asp Lys Tyr Thr Thr Leu Gln Glu Thr
165 170 175

Thr Asp Arg Ile Leu Ala Thr Asp Val Ser Ala Arg Trp Arg Tyr Asn
180 185 190

Thr Val Glu Val Asp Phe Asp Ala Val Tyr Ala Ser Val Arg Gly Leu
195 200 205

Leu Leu Lys Ala Phe Ala Glu Thr His Ser Leu Ala Leu Gln Gln Thr
210 215 220

Met Tyr Glu Met Gly Arg Ala Val Ile Glu Thr His Pro Glu Ile Asp
225 230 235 240

Glu Ile Lys Met Ser Leu Pro Asn Lys His His Phe Leu Val Asp Leu
245 250 255

Gln Pro Phe Gly Gln Asp Asn Pro Asn Glu Val Phe Tyr Ala Ala Asp
260 265 270

Arg Pro Tyr Gly Leu Ile Glu Ala Thr Ile Gln Arg Glu Gly Ser Arg
275 280 285

Ala Asp His Pro Ile Trp Ser Asn Ile Ala Gly Phe
290 295 300

<210> 6

<211> 292

<212> PRT

<213> Secuencia artificial

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<222> (133)..(133)
<223> X es S o C

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<222> (283)..(292)
<223> Uno o más aminoácidos en el extremo C-terminal son opcionales

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

Leu Asn Val Thr Ser Gln Leu Ser Gly Asp Phe Glu Ala Ala His Thr
35 40 45

Ala Gly Asp Asn Ala His Val Val Ala Thr Asp Thr Gln Lys Asn Thr
50 55 60

Val Tyr Ala Phe Ala Arg Asp Gly Phe Ala Thr Thr Glu Glu Phe Leu
65 70 75 80

Leu Arg Leu Gly Lys His Phe Thr Glu Gly Phe Asp Trp Val Thr Gly
85 90 95

Gly Arg Trp Ala Ala Gln Gln Phe Phe Trp Asp Arg Ile Xaa Asp His
100 105 110

Asp His Ala Phe Ser Arg Asn Lys Ser Glu Val Arg Thr Ala Val Leu
115 120 125

P-2017-14446 TRADUCCIÓN LISTADO SECUENCIAS.txt

Glu Ile Ser Gly Xaa Glu Gln Ala Ile Val Ala Gly Ile Glu Gly Leu
130 135 140

Thr Val Leu Lys Ser Thr Gly Ser Glu Phe His Gly Phe Pro Arg Asp
145 150 155 160

Lys Tyr Thr Thr Leu Gln Glu Thr Thr Asp Arg Ile Leu Ala Thr Asp
165 170 175

Val Ser Ala Arg Trp Arg Tyr Asn Thr Val Glu Val Asp Phe Asp Ala
180 185 190

Val Tyr Ala Ser Val Arg Gly Leu Leu Leu Lys Ala Phe Ala Glu Thr
195 200 205

His Ser Leu Ala Leu Gln Gln Thr Met Tyr Glu Met Gly Arg Ala Val
210 215 220

Ile Glu Thr His Pro Glu Ile Asp Glu Ile Lys Met Ser Leu Pro Asn
225 230 235 240

Lys His His Phe Leu Val Asp Leu Gln Pro Phe Gly Gln Asp Asn Pro
245 250 255

Asn Glu Val Phe Tyr Ala Ala Asp Arg Pro Tyr Gly Leu Ile Glu Ala
260 265 270

Thr Ile Gln Arg Glu Gly Ser Arg Ala Asp His Pro Ile Trp Ser Asn
275 280 285

Ile Ala Gly Phe
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<222> (11)..(11)

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<223> X es T o C

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<222> (142)..(142)
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<222> (238)..(238)
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Met Xaa Ala Thr Ala Glu Thr Ser Thr Gly Xaa Lys Val Val Leu Gly
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Gln Asn Gln Tyr Gly Lys Ala Glu Val Arg Leu Val Lys Val Thr Arg
20 25 30

Xaa Thr Ala Arg His Glu Ile Gln Asp Leu Asn Val Thr Ser Gln Leu
35 40 45

Xaa Gly Asp Phe Glu Ala Ala His Thr Ala Gly Asp Asn Ala His Val
50 55 60

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P-2017-14446 TRADUCCIÓN LISTADO SECUENCIAS.txt

Val Ala Thr Asp Thr Gln Lys Asn Thr Val Tyr Ala Phe Ala Arg Asp
65 70 75 80

Gly Phe Ala Thr Thr Glu Glu Phe Leu Leu Arg Leu Gly Lys His Phe
85 90 95

Thr Glu Gly Phe Asp Trp Val Thr Gly Gly Arg Trp Ala Ala Gln Gln
100 105 110

Phe Phe Trp Asp Arg Ile Xaa Xaa His Asp His Ala Phe Ser Arg Asn
115 120 125

Lys Ser Glu Val Arg Thr Ala Val Leu Glu Ile Ser Gly Xaa Glu Gln
130 135 140

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

Ser Glu Phe His Gly Phe Pro Arg Asp Lys Tyr Thr Thr Leu Gln Glu
165 170 175

Thr Thr Asp Arg Ile Leu Ala Thr Asp Val Ser Ala Arg Trp Arg Tyr
180 185 190

Asn Thr Val Xaa Val Asp Phe Asp Ala Val Tyr Ala Ser Val Arg Gly
195 200 205

Leu Leu Leu Lys Ala Phe Ala Glu Thr His Ser Leu Ala Leu Gln Gln
210 215 220

Thr Met Tyr Glu Met Gly Arg Ala Val Ile Glu Thr His Xaa Glu Ile
225 230 235 240

Asp Glu Ile Lys Met Ser Leu Pro Asn Lys His His Phe Leu Val Asp
245 250 255

Leu Gln Pro Phe Gly Gln Asp Asn Pro Asn Glu Val Phe Tyr Ala Ala
260 265 270

Asp Arg Pro Tyr Gly Leu Ile Glu Ala Thr Ile Gln Arg Xaa Gly Ser
275 280 285

Xaa Ala Asp His Pro Ile Trp Ser Asn Ile Ala Gly Phe
290 295 300

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cisteínas, XGD, opcionalmente con o sin truncamiento C-terminal

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<223> X es N o C

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<223> Uno o más aminoácidos en el extremo C-terminal son opcionales

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Met Xaa Ala Thr Ala Glu Thr Ser Thr Gly Xaa Lys Val Val Leu Gly
 1 5 10 15

Gln Asn Gln Tyr Gly Lys Ala Glu Val Arg Leu Val Lys Val Thr Arg
 20 25 30

Xaa Thr Ala Arg His Glu Ile Gln Asp Leu Asn Val Thr Ser Gln Leu
 35 40 45

Xaa Gly Asp Phe Glu Ala Ala His Thr Ala Gly Asp Asn Ala His Val
 50 55 60

Val Ala Thr Asp Thr Gln Lys Asn Thr Val Tyr Ala Phe Ala Arg Asp
 65 70 75 80

Gly Phe Ala Thr Thr Glu Glu Phe Leu Leu Arg Leu Gly Lys His Phe
 85 90 95

Thr Glu Gly Phe Asp Trp Val Thr Gly Gly Arg Trp Ala Ala Gln Gln
 100 105 110

Phe Phe Trp Asp Arg Ile Xaa Xaa His Asp His Ala Phe Ser Arg Asn
 115 120 125

Lys Ser Glu Val Arg Thr Ala Val Leu Glu Ile Ser Gly Xaa Glu Gln
 130 135 140

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

Ser Glu Phe His Gly Phe Pro Arg Asp Lys Tyr Thr Thr Leu Gln Glu
 165 170 175

Thr Thr Asp Arg Ile Leu Ala Thr Asp Val Ser Ala Arg Trp Arg Tyr
 180 185 190

Asn Thr Val Xaa Val Asp Phe Asp Ala Val Tyr Ala Ser Val Arg Gly
 195 200 205

Leu Leu Leu Lys Ala Phe Ala Glu Thr His Ser Leu Ala Leu Gln Gln
 210 215 220

Thr Met Tyr Glu Met Gly Arg Ala Val Ile Glu Thr His Xaa Glu Ile
 225 230 235 240

Asp Glu Ile Lys Met Ser Leu Pro Asn Lys His His Phe Leu Val Asp
 245 250 255

Leu Gln Pro Phe Gly Gln Asp Asn Pro Asn Glu Val Phe Tyr Ala Ala

Asp Arg Pro Tyr Gly Leu Ile Glu Ala Thr Ile Gln Arg Xaa Gly Ser
275 280 285

Xaa Ala Asp His Pro Ile Trp Ser Asn Ile Ala Gly Phe
290 295 300

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<222> (280)..(280)

<223> X es R o C

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<222> (283)..(292)

<223> Uno o más aminoácidos en el extremo C-terminal son opcionales

<400> 9

Met Xaa Lys Val Val Leu Gly Gln Asn Gln Tyr Gly Lys Ala Glu Val
 1 5 10 15

Arg Leu Val Lys Val Thr Arg Xaa Thr Ala Arg His Glu Ile Gln Asp
 20 25 30

Leu Asn Val Thr Ser Gln Leu Xaa Gly Asp Phe Glu Ala Ala His Thr
 35 40 45

Ala Gly Asp Asn Ala His Val Val Ala Thr Asp Thr Gln Lys Asn Thr
 50 55 60

Val Tyr Ala Phe Ala Arg Asp Gly Phe Ala Thr Thr Glu Glu Phe Leu
 65 70 75 80

Leu Arg Leu Gly Lys His Phe Thr Glu Gly Phe Asp Trp Val Thr Gly
 85 90 95

Gly Arg Trp Ala Ala Gln Gln Phe Phe Trp Asp Arg Ile Xaa Xaa His
 100 105 110

Asp His Ala Phe Ser Arg Asn Lys Ser Glu Val Arg Thr Ala Val Leu
 115 120 125

Glu Ile Ser Gly Xaa Glu Gln Ala Ile Val Ala Gly Ile Glu Gly Leu
 130 135 140

Thr Val Leu Lys Ser Thr Gly Ser Glu Phe His Gly Phe Pro Arg Asp
 145 150 155 160

Lys Tyr Thr Thr Leu Gln Glu Thr Thr Asp Arg Ile Leu Ala Thr Asp
 165 170 175

Val Ser Ala Arg Trp Arg Tyr Asn Thr Val Xaa Val Asp Phe Asp Ala
 180 185 190

Val Tyr Ala Ser Val Arg Gly Leu Leu Leu Lys Ala Phe Ala Glu Thr
 195 200 205

His Ser Leu Ala Leu Gln Gln Thr Met Tyr Glu Met Gly Arg Ala Val

210

215

220

Ile Glu Thr His Xaa Glu Ile Asp Glu Ile Lys Met Ser Leu Pro Asn
225 230 235 240

Lys His His Phe Leu Val Asp Leu Gln Pro Phe Gly Gln Asp Asn Pro
245 250 255

Asn Glu Val Phe Tyr Ala Ala Asp Arg Pro Tyr Gly Leu Ile Glu Ala
260 265 270

Thr Ile Gln Arg Xaa Gly Ser Xaa Ala Asp His Pro Ile Trp Ser Asn
275 280 285

Ile Ala Gly Phe
290

<210> 10
<211> 301
<212> PRT
<213> Secuencia artificial

<220>
<223> Secuencia génica, con modificación N-terminal opcional, 9 posibles sitios de conjugación, XGD, opcionalmente con o sin truncamiento C-terminal

<220>
<221> CARACTERÍSTICA_MISC
<222> (1)..(301)
<223> Se incluyen al menos una, dos, tres o cuatro cisteínas en la secuencia

<220>
<221> CARACTERÍSTICA_MISC
<222> (2)..(2)
<223> X está presente o ausente y en caso de estar presente, es T

<220>
<221> CARACTERÍSTICA_MISC
<222> (11)..(11)
<223> X es T o cualquier aminoácido natural o no natural usado para la conjugación de sitio específico

<220>
<221> CARACTERÍSTICA_MISC
<222> (33)..(33)
<223> X es N o cualquier aminoácido natural o no natural usado para la conjugación de sitio específico

<220>
<221> CARACTERÍSTICA_MISC
<222> (49)..(49)
<223> X es cualquier aminoácido natural excepto C

<220>
<221> CARACTERÍSTICA_MISC
<222> (119)..(119)
<223> X es N o cualquier aminoácido natural o no natural usado para la conjugación de sitio específico

<220>
<221> CARACTERÍSTICA_MISC

<222> (120)..(120)
 <223> X es D o cualquier aminoácido natural o no natural usado para la conjugación de sitio específico

<220>
 <221> CARACTERÍSTICA_MISC
 <222> (142)..(142)
 <223> X es S o cualquier aminoácido natural o no natural usado para la conjugación de sitio específico

<220>
 <221> CARACTERÍSTICA_MISC
 <222> (196)..(196)
 <223> X es E o cualquier aminoácido natural o no natural usado para la conjugación de sitio específico

<220>
 <221> CARACTERÍSTICA_MISC
 <222> (238)..(238)
 <223> X es P o cualquier aminoácido natural o no natural usado para la conjugación de sitio específico

<220>
 <221> CARACTERÍSTICA_MISC
 <222> (286)..(286)
 <223> X es R o cualquier aminoácido natural o no natural usado para la conjugación de sitio específico

<220>
 <221> CARACTERÍSTICA_MISC
 <222> (289)..(289)
 <223> X es Q o cualquier aminoácido natural o no natural usado para la conjugación de sitio específico

<220>
 <221> CARACTERÍSTICA_MISC
 <222> (292)..(301)
 <223> Uno o más aminoácidos en el extremo C-terminal son opcionales

<400> 10

Met Xaa Ala Thr Ala Glu Thr Ser Thr Gly Xaa Lys Val Val Leu Gly
 1 5 10 15

Gln Asn Gln Tyr Gly Lys Ala Glu Val Arg Leu Val Lys Val Thr Arg
 20 25 30

Xaa Thr Ala Arg His Glu Ile Gln Asp Leu Asn Val Thr Ser Gln Leu
 35 40 45

Xaa Gly Asp Phe Glu Ala Ala His Thr Ala Gly Asp Asn Ala His Val
 50 55 60

Val Ala Thr Asp Thr Gln Lys Asn Thr Val Tyr Ala Phe Ala Arg Asp
 65 70 75 80

Gly Phe Ala Thr Thr Glu Glu Phe Leu Leu Arg Leu Gly Lys His Phe
 85 90 95

Thr Glu Gly Phe Asp Trp Val Thr Gly Gly Arg Trp Ala Ala Gln Gln
 100 105 110

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Phe Phe Trp Asp Arg Ile Xaa Xaa His Asp His Ala Phe Ser Arg Asn
115 120 125

Lys Ser Glu Val Arg Thr Ala Val Leu Glu Ile Ser Gly Xaa Glu Gln
130 135 140

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

Ser Glu Phe His Gly Phe Pro Arg Asp Lys Tyr Thr Thr Leu Gln Glu
165 170 175

Thr Thr Asp Arg Ile Leu Ala Thr Asp Val Ser Ala Arg Trp Arg Tyr
180 185 190

Asn Thr Val Xaa Val Asp Phe Asp Ala Val Tyr Ala Ser Val Arg Gly
195 200 205

Leu Leu Leu Lys Ala Phe Ala Glu Thr His Ser Leu Ala Leu Gln Gln
210 215 220

Thr Met Tyr Glu Met Gly Arg Ala Val Ile Glu Thr His Xaa Glu Ile
225 230 235 240

Asp Glu Ile Lys Met Ser Leu Pro Asn Lys His His Phe Leu Val Asp
245 250 255

Leu Gln Pro Phe Gly Gln Asp Asn Pro Asn Glu Val Phe Tyr Ala Ala
260 265 270

Asp Arg Pro Tyr Gly Leu Ile Glu Ala Thr Ile Gln Arg Xaa Gly Ser
275 280 285

Xaa Ala Asp His Pro Ile Trp Ser Asn Ile Ala Gly Phe
290 295 300

<210> 11
<211> 292
<212> PRT
<213> Secuencia artificial

<220>
<223> Secuencia génica, con truncamiento N-terminal, 9 posibles sitios de conjugación, XGD, opcionalmente con o sin truncamiento C-terminal

<220>
<221> CARACTERÍSTICA_MISC
<222> (1)..(292)
<223> Se incluyen al menos una, dos, tres o cuatro cisteínas en la secuencia

<220>
<221> CARACTERÍSTICA_MISC
<222> (2)..(2)
<223> X es T o cualquier aminoácido natural o no natural usado para la

conjugación de sitio específico

<220>
 <221> CARACTERÍSTICA_MISC
 <222> (24)..(24)
 <223> X es N o cualquier aminoácido natural o no natural usado para la conjugación de sitio específico

<220>
 <221> CARACTERÍSTICA_MISC
 <222> (40)..(40)
 <223> X es cualquier aminoácido natural excepto C

<220>
 <221> CARACTERÍSTICA_MISC
 <222> (110)..(110)
 <223> X es N o cualquier aminoácido natural o no natural usado para la conjugación de sitio específico

<220>
 <221> CARACTERÍSTICA_MISC
 <222> (111)..(111)
 <223> X es D o cualquier aminoácido natural o no natural usado para la conjugación de sitio específico

<220>
 <221> CARACTERÍSTICA_MISC
 <222> (133)..(133)
 <223> X es S o cualquier aminoácido natural o no natural usado para la conjugación de sitio específico

<220>
 <221> CARACTERÍSTICA_MISC
 <222> (187)..(187)
 <223> X es E o cualquier aminoácido natural o no natural usado para la conjugación de sitio específico

<220>
 <221> CARACTERÍSTICA_MISC
 <222> (229)..(229)
 <223> X es P o cualquier aminoácido natural o no natural usado para la conjugación de sitio específico

<220>
 <221> CARACTERÍSTICA_MISC
 <222> (277)..(277)
 <223> X es E o cualquier aminoácido natural o no natural usado para la conjugación de sitio específico

<220>
 <221> CARACTERÍSTICA_MISC
 <222> (280)..(280)
 <223> X es R o cualquier aminoácido natural o no natural usado para la conjugación de sitio específico

<220>
 <221> CARACTERÍSTICA_MISC
 <222> (283)..(292)
 <223> Uno o más aminoácidos en el extremo C-terminal son opcionales

<400> 11

Met Xaa Lys Val Val Leu Gly Gln Asn Gln Tyr Gly Lys Ala Glu Val
 1 5 10 15

Arg Leu Val Lys Val Thr Arg Xaa Thr Ala Arg His Glu Ile Gln Asp
 20 25 30

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

<210> 12
 <211> 303
 <212> PRT
 <213> Secuencia artificial

<220>
 <223> Construcción de uricasa C1 modificada de Arthrobacter globiformis
 (mutación T11C, SGD, etiqueta His N-terminal opcional y enlazador corto opcional
 (el primer estos de uricasa corresponde a Thr2))

<220>
 <221> CARACTERÍSTICA_MISC
 <222> (1)..(13)
 <223> Etiqueta His N-terminal opcional y enlazador opcional

<400> 12

Met Gly Ser His His His His His His Gly Ala Arg Gln Thr Ala Thr
 1 5 10 15

Ala Glu Thr Ser Thr Gly Cys Lys Val Val Leu Gly Gln Asn Gln Tyr
 20 25 30

Gly Lys Ala Glu Val Arg Leu Val Lys Val Thr Arg Asn Thr Ala Arg
 35 40 45

His Glu Ile Gln Asp Leu Asn Val Thr Ser Gln Leu Ser Gly Asp Phe
 50 55 60

Glu Ala Ala His Thr Ala Gly Asp Asn Ala His Val Val Ala Thr Asp
 65 70 75 80

Thr Gln Lys Asn Thr Val Tyr Ala Phe Ala Arg Asp Gly Phe Ala Thr
 85 90 95

Thr Glu Glu Phe Leu Leu Arg Leu Gly Lys His Phe Thr Glu Gly Phe
 100 105 110

Asp Trp Val Thr Gly Gly Arg Trp Ala Ala Gln Gln Phe Phe Trp Asp
 115 120 125

Arg Ile Asn Asp His Asp His Ala Phe Ser Arg Asn Lys Ser Glu Val
 130 135 140

Arg Thr Ala Val Leu Glu Ile Ser Gly Ser Glu Gln Ala Ile Val Ala
 145 150 155 160

Gly Ile Glu Gly Leu Thr Val Leu Lys Ser Thr Gly Ser Glu Phe His
 165 170 175

Gly Phe Pro Arg Asp Lys Tyr Thr Thr Leu Gln Glu Thr Thr Asp Arg
 180 185 190

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Ile Leu Ala Thr Asp Val Ser Ala Arg Trp Arg Tyr Asn Thr Val Glu
195 200 205

Val Asp Phe Asp Ala Val Tyr Ala Ser Val Arg Gly Leu Leu Leu Lys
210 215 220

Ala Phe Ala Glu Thr His Ser Leu Ala Leu Gln Gln Thr Met Tyr Glu
225 230 235 240

Met Gly Arg Ala Val Ile Glu Thr His Pro Glu Ile Asp Glu Ile Lys
245 250 255

Met Ser Leu Pro Asn Lys His His Phe Leu Val Asp Leu Gln Pro Phe
260 265 270

Gly Gln Asp Asn Pro Asn Glu Val Phe Tyr Ala Ala Asp Arg Pro Tyr
275 280 285

Gly Leu Ile Glu Ala Thr Ile Gln Arg Glu Gly Ser Arg Ala Asp
290 295 300

<210> 13
<211> 290
<212> PRT
<213> Secuencia artificial

<220>
<223> Construcción de uricasa C1 modificada de Arthrobacter globiformis
(variante 1) con etiqueta eliminada, eliminación de Thr2 (para evitar la
escisión parcial de Met N-terminal) y Cys en la posición 11

<400> 13

Met Ala Thr Ala Glu Thr Ser Thr Gly Cys Lys Val Val Leu Gly Gln
1 5 10 15

Asn Gln Tyr Gly Lys Ala Glu Val Arg Leu Val Lys Val Thr Arg Asn
20 25 30

Thr Ala Arg His Glu Ile Gln Asp Leu Asn Val Thr Ser Gln Leu Ser
35 40 45

Gly Asp Phe Glu Ala Ala His Thr Ala Gly Asp Asn Ala His Val Val
50 55 60

Ala Thr Asp Thr Gln Lys Asn Thr Val Tyr Ala Phe Ala Arg Asp Gly
65 70 75 80

Phe Ala Thr Thr Glu Glu Phe Leu Leu Arg Leu Gly Lys His Phe Thr
85 90 95

Glu Gly Phe Asp Trp Val Thr Gly Gly Arg Trp Ala Ala Gln Gln Phe
100 105 110

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Phe Trp Asp Arg Ile Asn Asp His Asp His Ala Phe Ser Arg Asn Lys
115 120 125

Ser Glu Val Arg Thr Ala Val Leu Glu Ile Ser Gly Ser Glu Gln Ala
130 135 140

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

Glu Phe His Gly Phe Pro Arg Asp Lys Tyr Thr Thr Leu Gln Glu Thr
165 170 175

Thr Asp Arg Ile Leu Ala Thr Asp Val Ser Ala Arg Trp Arg Tyr Asn
180 185 190

Thr Val Glu Val Asp Phe Asp Ala Val Tyr Ala Ser Val Arg Gly Leu
195 200 205

Leu Leu Lys Ala Phe Ala Glu Thr His Ser Leu Ala Leu Gln Gln Thr
210 215 220

Met Tyr Glu Met Gly Arg Ala Val Ile Glu Thr His Pro Glu Ile Asp
225 230 235 240

Glu Ile Lys Met Ser Leu Pro Asn Lys His His Phe Leu Val Asp Leu
245 250 255

Gln Pro Phe Gly Gln Asp Asn Pro Asn Glu Val Phe Tyr Ala Ala Asp
260 265 270

Arg Pro Tyr Gly Leu Ile Glu Ala Thr Ile Gln Arg Glu Gly Ser Arg
275 280 285

Ala Asp
290

<210> 14
<211> 287
<212> PRT
<213> Secuencia artificial

<220>
<223> Construcción de uricasa C1 modificada de Arthrobacter globiformis
(variante 2 truncamiento N-terminal) con etiqueta eliminada, eliminación de
Thr2-Ala5 y Cys en la posición 11, se espera una retención completa de la Met
N-terminal

<400> 14

Met Glu Thr Ser Thr Gly Cys Lys Val Val Leu Gly Gln Asn Gln Tyr
1 5 10 15

Gly Lys Ala Glu Val Arg Leu Val Lys Val Thr Arg Asn Thr Ala Arg
20 25 30

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His Glu Ile Gln Asp Leu Asn Val Thr Ser Gln Leu Ser Gly Asp Phe
35 40 45

Glu Ala Ala His Thr Ala Gly Asp Asn Ala His Val Val Ala Thr Asp
50 55 60

Thr Gln Lys Asn Thr Val Tyr Ala Phe Ala Arg Asp Gly Phe Ala Thr
65 70 75 80

Thr Glu Glu Phe Leu Leu Arg Leu Gly Lys His Phe Thr Glu Gly Phe
85 90 95

Asp Trp Val Thr Gly Gly Arg Trp Ala Ala Gln Gln Phe Phe Trp Asp
100 105 110

Arg Ile Asn Asp His Asp His Ala Phe Ser Arg Asn Lys Ser Glu Val
115 120 125

Arg Thr Ala Val Leu Glu Ile Ser Gly Ser Glu Gln Ala Ile Val Ala
130 135 140

Gly Ile Glu Gly Leu Thr Val Leu Lys Ser Thr Gly Ser Glu Phe His
145 150 155 160

Gly Phe Pro Arg Asp Lys Tyr Thr Thr Leu Gln Glu Thr Thr Asp Arg
165 170 175

Ile Leu Ala Thr Asp Val Ser Ala Arg Trp Arg Tyr Asn Thr Val Glu
180 185 190

Val Asp Phe Asp Ala Val Tyr Ala Ser Val Arg Gly Leu Leu Leu Lys
195 200 205

Ala Phe Ala Glu Thr His Ser Leu Ala Leu Gln Gln Thr Met Tyr Glu
210 215 220

Met Gly Arg Ala Val Ile Glu Thr His Pro Glu Ile Asp Glu Ile Lys
225 230 235 240

Met Ser Leu Pro Asn Lys His His Phe Leu Val Asp Leu Gln Pro Phe
245 250 255

Gly Gln Asp Asn Pro Asn Glu Val Phe Tyr Ala Ala Asp Arg Pro Tyr
260 265 270

Gly Leu Ile Glu Ala Thr Ile Gln Arg Glu Gly Ser Arg Ala Asp
275 280 285

<210> 15
<211> 283
<212> PRT

<213> Secuencia artificial

<220>

<223> Construcción de uricasa C1 modificada de *Arthrobacter globiformis* (variante 3 truncamiento N-terminal) con etiqueta eliminada, eliminación de Thr2-Thr9, Cys en la posición 11, se espera un procesamiento de la Met N-terminal

<400> 15

Met Gly Cys Lys Val Val Leu Gly Gln Asn Gln Tyr Gly Lys Ala Glu
1 5 10 15

Val Arg Leu Val Lys Val Thr Arg Asn Thr Ala Arg His Glu Ile Gln
20 25 30

Asp Leu Asn Val Thr Ser Gln Leu Ser Gly Asp Phe Glu Ala Ala His
35 40 45

Thr Ala Gly Asp Asn Ala His Val Val Ala Thr Asp Thr Gln Lys Asn
50 55 60

Thr Val Tyr Ala Phe Ala Arg Asp Gly Phe Ala Thr Thr Glu Glu Phe
65 70 75 80

Leu Leu Arg Leu Gly Lys His Phe Thr Glu Gly Phe Asp Trp Val Thr
85 90 95

Gly Gly Arg Trp Ala Ala Gln Gln Phe Phe Trp Asp Arg Ile Asn Asp
100 105 110

His Asp His Ala Phe Ser Arg Asn Lys Ser Glu Val Arg Thr Ala Val
115 120 125

Leu Glu Ile Ser Gly Ser Glu Gln Ala Ile Val Ala Gly Ile Glu Gly
130 135 140

Leu Thr Val Leu Lys Ser Thr Gly Ser Glu Phe His Gly Phe Pro Arg
145 150 155 160

Asp Lys Tyr Thr Thr Leu Gln Glu Thr Thr Asp Arg Ile Leu Ala Thr
165 170 175

Asp Val Ser Ala Arg Trp Arg Tyr Asn Thr Val Glu Val Asp Phe Asp
180 185 190

Ala Val Tyr Ala Ser Val Arg Gly Leu Leu Leu Lys Ala Phe Ala Glu
195 200 205

Thr His Ser Leu Ala Leu Gln Gln Thr Met Tyr Glu Met Gly Arg Ala
210 215 220

Val Ile Glu Thr His Pro Glu Ile Asp Glu Ile Lys Met Ser Leu Pro
225 230 235 240

Asn Lys His His Phe Leu Val Asp Leu Gln Pro Phe Gly Gln Asp Asn
245 250 255

Pro Asn Glu Val Phe Tyr Ala Ala Asp Arg Pro Tyr Gly Leu Ile Glu
260 265 270

Ala Thr Ile Gln Arg Glu Gly Ser Arg Ala Asp
275 280

<210> 16
<211> 303
<212> PRT
<213> Secuencia artificial

<220>
<223> Uricasa de Arthrobacter globiformis modificada con SGD y sitios disponibles para la PEGilación en T11C, N33C, S142C, etiqueta His N-terminal opcional y enlazador corto opcional

<220>
<221> CARACTERÍSTICA_MISC
<222> (1)..(13)
<223> Etiqueta His N-terminal opcional y enlazador opcional

<400> 16

Met Gly Ser His His His His His His Gly Ala Arg Gln Thr Ala Thr
1 5 10 15

Ala Glu Thr Ser Thr Gly Cys Lys Val Val Leu Gly Gln Asn Gln Tyr
20 25 30

Gly Lys Ala Glu Val Arg Leu Val Lys Val Thr Arg Cys Thr Ala Arg
35 40 45

His Glu Ile Gln Asp Leu Asn Val Thr Ser Gln Leu Ser Gly Asp Phe
50 55 60

Glu Ala Ala His Thr Ala Gly Asp Asn Ala His Val Val Ala Thr Asp
65 70 75 80

Thr Gln Lys Asn Thr Val Tyr Ala Phe Ala Arg Asp Gly Phe Ala Thr
85 90 95

Thr Glu Glu Phe Leu Leu Arg Leu Gly Lys His Phe Thr Glu Gly Phe
100 105 110

Asp Trp Val Thr Gly Gly Arg Trp Ala Ala Gln Gln Phe Phe Trp Asp
115 120 125

Arg Ile Asn Asp His Asp His Ala Phe Ser Arg Asn Lys Ser Glu Val
130 135 140

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Arg Thr Ala Val Leu Glu Ile Ser Gly Cys Glu Gln Ala Ile Val Ala
145 150 155 160

Gly Ile Glu Gly Leu Thr Val Leu Lys Ser Thr Gly Ser Glu Phe His
165 170 175

Gly Phe Pro Arg Asp Lys Tyr Thr Thr Leu Gln Glu Thr Thr Asp Arg
180 185 190

Ile Leu Ala Thr Asp Val Ser Ala Arg Trp Arg Tyr Asn Thr Val Glu
195 200 205

Val Asp Phe Asp Ala Val Tyr Ala Ser Val Arg Gly Leu Leu Leu Lys
210 215 220

Ala Phe Ala Glu Thr His Ser Leu Ala Leu Gln Gln Thr Met Tyr Glu
225 230 235 240

Met Gly Arg Ala Val Ile Glu Thr His Pro Glu Ile Asp Glu Ile Lys
245 250 255

Met Ser Leu Pro Asn Lys His His Phe Leu Val Asp Leu Gln Pro Phe
260 265 270

Gly Gln Asp Asn Pro Asn Glu Val Phe Tyr Ala Ala Asp Arg Pro Tyr
275 280 285

Gly Leu Ile Glu Ala Thr Ile Gln Arg Glu Gly Ser Arg Ala Asp
290 295 300

<210> 17
<211> 303
<212> PRT
<213> Secuencia artificial

<220>
<223> Uricasa modificada de Arthrobacter globiformis, truncada en NH2 terminal, SGD, sitios disponibles para PEGilación en T11C y N33C 2-Cys (SGD His C2) con etiqueta His N-terminal opcional y enlazador corto opcional

<220>
<221> CARACTERÍSTICA_MISC
<222> (1)..(13)
<223> Etiqueta His N-terminal opcional y enlazador opcional

<400> 17

Met Gly Ser His His His His His His Gly Ala Arg Gln Thr Ala Thr
1 5 10 15

Ala Glu Thr Ser Thr Gly Cys Lys Val Val Leu Gly Gln Asn Gln Tyr
20 25 30

Gly Lys Ala Glu Val Arg Leu Val Lys Val Thr Arg Cys Thr Ala Arg
35 40 45

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His Glu Ile Gln Asp Leu Asn Val Thr Ser Gln Leu Ser Gly Asp Phe
50 55 60

Glu Ala Ala His Thr Ala Gly Asp Asn Ala His Val Val Ala Thr Asp
65 70 75 80

Thr Gln Lys Asn Thr Val Tyr Ala Phe Ala Arg Asp Gly Phe Ala Thr
85 90 95

Thr Glu Glu Phe Leu Leu Arg Leu Gly Lys His Phe Thr Glu Gly Phe
100 105 110

Asp Trp Val Thr Gly Gly Arg Trp Ala Ala Gln Gln Phe Phe Trp Asp
115 120 125

Arg Ile Asn Asp His Asp His Ala Phe Ser Arg Asn Lys Ser Glu Val
130 135 140

Arg Thr Ala Val Leu Glu Ile Ser Gly Ser Glu Gln Ala Ile Val Ala
145 150 155 160

Gly Ile Glu Gly Leu Thr Val Leu Lys Ser Thr Gly Ser Glu Phe His
165 170 175

Gly Phe Pro Arg Asp Lys Tyr Thr Thr Leu Gln Glu Thr Thr Asp Arg
180 185 190

Ile Leu Ala Thr Asp Val Ser Ala Arg Trp Arg Tyr Asn Thr Val Glu
195 200 205

Val Asp Phe Asp Ala Val Tyr Ala Ser Val Arg Gly Leu Leu Leu Lys
210 215 220

Ala Phe Ala Glu Thr His Ser Leu Ala Leu Gln Gln Thr Met Tyr Glu
225 230 235 240

Met Gly Arg Ala Val Ile Glu Thr His Pro Glu Ile Asp Glu Ile Lys
245 250 255

Met Ser Leu Pro Asn Lys His His Phe Leu Val Asp Leu Gln Pro Phe
260 265 270

Gly Gln Asp Asn Pro Asn Glu Val Phe Tyr Ala Ala Asp Arg Pro Tyr
275 280 285

Gly Leu Ile Glu Ala Thr Ile Gln Arg Glu Gly Ser Arg Ala Asp
290 295 300

<210> 18
<211> 290

<212> PRT

<213> Secuencia artificial

<220>

<223> Uricasa modificada de Arthrobacter globiformis (truncamiento C-terminal con SGD)

<400> 18

Met Ala Thr Ala Glu Thr Ser Thr Gly Thr Lys Val Val Leu Gly Gln
 1 5 10 15

Asn Gln Tyr Gly Lys Ala Glu Val Arg Leu Val Lys Val Thr Arg Asn
 20 25 30

Thr Ala Arg His Glu Ile Gln Asp Leu Asn Val Thr Ser Gln Leu Ser
 35 40 45

Gly Asp Phe Glu Ala Ala His Thr Ala Gly Asp Asn Ala His Val Val
 50 55 60

Ala Thr Asp Thr Gln Lys Asn Thr Val Tyr Ala Phe Ala Arg Asp Gly
 65 70 75 80

Phe Ala Thr Thr Glu Glu Phe Leu Leu Arg Leu Gly Lys His Phe Thr
 85 90 95

Glu Gly Phe Asp Trp Val Thr Gly Gly Arg Trp Ala Ala Gln Gln Phe
 100 105 110

Phe Trp Asp Arg Ile Asn Asp His Asp His Ala Phe Ser Arg Asn Lys
 115 120 125

Ser Glu Val Arg Thr Ala Val Leu Glu Ile Ser Gly Ser Glu Gln Ala
 130 135 140

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

Glu Phe His Gly Phe Pro Arg Asp Lys Tyr Thr Thr Leu Gln Glu Thr
 165 170 175

Thr Asp Arg Ile Leu Ala Thr Asp Val Ser Ala Arg Trp Arg Tyr Asn
 180 185 190

Thr Val Glu Val Asp Phe Asp Ala Val Tyr Ala Ser Val Arg Gly Leu
 195 200 205

Leu Leu Lys Ala Phe Ala Glu Thr His Ser Leu Ala Leu Gln Gln Thr
 210 215 220

Met Tyr Glu Met Gly Arg Ala Val Ile Glu Thr His Pro Glu Ile Asp
 225 230 235 240

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Glu Ile Lys Met Ser Leu Pro Asn Lys His His Phe Leu Val Asp Leu
245 250 255

Gln Pro Phe Gly Gln Asp Asn Pro Asn Glu Val Phe Tyr Ala Ala Asp
260 265 270

Arg Pro Tyr Gly Leu Ile Glu Ala Thr Ile Gln Arg Glu Gly Ser Arg
275 280 285

Ala Asp
290

<210> 19
<211> 289
<212> PRT
<213> Secuencia artificial

<220>
<223> Uricasa modificada de Arthrobacter globiformis (forma procesada - Met
escindida en N-terminal, SGD y truncamiento C-terminal)

<400> 19

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

Gln Tyr Gly Lys Ala Glu Val Arg Leu Val Lys Val Thr Arg Asn Thr
20 25 30

Ala Arg His Glu Ile Gln Asp Leu Asn Val Thr Ser Gln Leu Ser Gly
35 40 45

Asp Phe Glu Ala Ala His Thr Ala Gly Asp Asn Ala His Val Val Ala
50 55 60

Thr Asp Thr Gln Lys Asn Thr Val Tyr Ala Phe Ala Arg Asp Gly Phe
65 70 75 80

Ala Thr Thr Glu Glu Phe Leu Leu Arg Leu Gly Lys His Phe Thr Glu
85 90 95

Gly Phe Asp Trp Val Thr Gly Gly Arg Trp Ala Ala Gln Gln Phe Phe
100 105 110

Trp Asp Arg Ile Asn Asp His Asp His Ala Phe Ser Arg Asn Lys Ser
115 120 125

Glu Val Arg Thr Ala Val Leu Glu Ile Ser Gly Ser Glu Gln Ala Ile
130 135 140

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

Phe His Gly Phe Pro Arg Asp Lys Tyr Thr Thr Leu Gln Glu Thr Thr
165 170 175

Asp Arg Ile Leu Ala Thr Asp Val Ser Ala Arg Trp Arg Tyr Asn Thr
180 185 190

Val Glu Val Asp Phe Asp Ala Val Tyr Ala Ser Val Arg Gly Leu Leu
195 200 205

Leu Lys Ala Phe Ala Glu Thr His Ser Leu Ala Leu Gln Gln Thr Met
210 215 220

Tyr Glu Met Gly Arg Ala Val Ile Glu Thr His Pro Glu Ile Asp Glu
225 230 235 240

Ile Lys Met Ser Leu Pro Asn Lys His His Phe Leu Val Asp Leu Gln
245 250 255

Pro Phe Gly Gln Asp Asn Pro Asn Glu Val Phe Tyr Ala Ala Asp Arg
260 265 270

Pro Tyr Gly Leu Ile Glu Ala Thr Ile Gln Arg Glu Gly Ser Arg Ala
275 280 285

Asp

<210> 20
<211> 303
<212> PRT
<213> Secuencia artificial

<220>
<223> Uricasa modificada de Arthrobacter globiformis (contiene etiqueta His N-terminal opcional y enlazador corto opcional, contiene SGD en lugar de RGD (truncamiento C-terminal con etiqueta His y SGD)

<220>
<221> CARACTERÍSTICA_MISC
<222> (1)..(13)
<223> Etiqueta His N-terminal opcional y enlazador opcional

<400> 20

Met Gly Ser His His His His His His Gly Ala Arg Gln Thr Ala Thr
1 5 10 15

Ala Glu Thr Ser Thr Gly Thr Lys Val Val Leu Gly Gln Asn Gln Tyr
20 25 30

Gly Lys Ala Glu Val Arg Leu Val Lys Val Thr Arg Asn Thr Ala Arg
35 40 45

His Glu Ile Gln Asp Leu Asn Val Thr Ser Gln Leu Ser Gly Asp Phe
50 55 60

P-2017-14446 TRADUCCIÓN LISTADO SECUENCIAS.txt

Glu Ala Ala His Thr Ala Gly Asp Asn Ala His Val Val Ala Thr Asp
65 70 75 80

Thr Gln Lys Asn Thr Val Tyr Ala Phe Ala Arg Asp Gly Phe Ala Thr
85 90 95

Thr Glu Glu Phe Leu Leu Arg Leu Gly Lys His Phe Thr Glu Gly Phe
100 105 110

Asp Trp Val Thr Gly Gly Arg Trp Ala Ala Gln Gln Phe Phe Trp Asp
115 120 125

Arg Ile Asn Asp His Asp His Ala Phe Ser Arg Asn Lys Ser Glu Val
130 135 140

Arg Thr Ala Val Leu Glu Ile Ser Gly Ser Glu Gln Ala Ile Val Ala
145 150 155 160

Gly Ile Glu Gly Leu Thr Val Leu Lys Ser Thr Gly Ser Glu Phe His
165 170 175

Gly Phe Pro Arg Asp Lys Tyr Thr Thr Leu Gln Glu Thr Thr Asp Arg
180 185 190

Ile Leu Ala Thr Asp Val Ser Ala Arg Trp Arg Tyr Asn Thr Val Glu
195 200 205

Val Asp Phe Asp Ala Val Tyr Ala Ser Val Arg Gly Leu Leu Leu Lys
210 215 220

Ala Phe Ala Glu Thr His Ser Leu Ala Leu Gln Gln Thr Met Tyr Glu
225 230 235 240

Met Gly Arg Ala Val Ile Glu Thr His Pro Glu Ile Asp Glu Ile Lys
245 250 255

Met Ser Leu Pro Asn Lys His His Phe Leu Val Asp Leu Gln Pro Phe
260 265 270

Gly Gln Asp Asn Pro Asn Glu Val Phe Tyr Ala Ala Asp Arg Pro Tyr
275 280 285

Gly Leu Ile Glu Ala Thr Ile Gln Arg Glu Gly Ser Arg Ala Asp
290 295 300

<210> 21

<211> 303

<212> PRT

<213> Secuencia artificial

<220>

<223> Uricasa modificada de Arthrobacter globiformis (contiene etiqueta His N-terminal opcional y enlazador corto opcional) (truncamiento C-terminal con etiqueta His)

<220>

<221> CARACTERÍSTICA_MISC

<222> (1)..(13)

<223> Etiqueta His N-terminal opcional y enlazador opcional

<400> 21

Met Gly Ser His His His His His His Gly Ala Arg Gln Thr Ala Thr
1 5 10 15

Ala Glu Thr Ser Thr Gly Thr Lys Val Val Leu Gly Gln Asn Gln Tyr
20 25 30

Gly Lys Ala Glu Val Arg Leu Val Lys Val Thr Arg Asn Thr Ala Arg
35 40 45

His Glu Ile Gln Asp Leu Asn Val Thr Ser Gln Leu Arg Gly Asp Phe
50 55 60

Glu Ala Ala His Thr Ala Gly Asp Asn Ala His Val Val Ala Thr Asp
65 70 75 80

Thr Gln Lys Asn Thr Val Tyr Ala Phe Ala Arg Asp Gly Phe Ala Thr
85 90 95

Thr Glu Glu Phe Leu Leu Arg Leu Gly Lys His Phe Thr Glu Gly Phe
100 105 110

Asp Trp Val Thr Gly Gly Arg Trp Ala Ala Gln Gln Phe Phe Trp Asp
115 120 125

Arg Ile Asn Asp His Asp His Ala Phe Ser Arg Asn Lys Ser Glu Val
130 135 140

Arg Thr Ala Val Leu Glu Ile Ser Gly Ser Glu Gln Ala Ile Val Ala
145 150 155 160

Gly Ile Glu Gly Leu Thr Val Leu Lys Ser Thr Gly Ser Glu Phe His
165 170 175

Gly Phe Pro Arg Asp Lys Tyr Thr Thr Leu Gln Glu Thr Thr Asp Arg
180 185 190

Ile Leu Ala Thr Asp Val Ser Ala Arg Trp Arg Tyr Asn Thr Val Glu
195 200 205

Val Asp Phe Asp Ala Val Tyr Ala Ser Val Arg Gly Leu Leu Leu Lys
210 215 220

P-2017-14446 TRADUCCIÓN LISTADO SECUENCIAS.txt

Ala Phe Ala Glu Thr His Ser Leu Ala Leu Gln Gln Thr Met Tyr Glu
225 230 235 240

Met Gly Arg Ala Val Ile Glu Thr His Pro Glu Ile Asp Glu Ile Lys
245 250 255

Met Ser Leu Pro Asn Lys His His Phe Leu Val Asp Leu Gln Pro Phe
260 265 270

Gly Gln Asp Asn Pro Asn Glu Val Phe Tyr Ala Ala Asp Arg Pro Tyr
275 280 285

Gly Leu Ile Glu Ala Thr Ile Gln Arg Glu Gly Ser Arg Ala Asp
290 295 300

<210> 22

<211> 291

<212> PRT

<213> Secuencia artificial

<220>

<223> Uricasa modificada de Arthrobacter globiformis (0 cisteínas)
(truncamiento de los 11 aminoácidos C-terminales para eliminar la Cys)
(truncamiento C-term)

<400> 22

Met Thr Ala Thr Ala Glu Thr Ser Thr Gly Thr Lys Val Val Leu Gly
1 5 10 15

Gln Asn Gln Tyr Gly Lys Ala Glu Val Arg Leu Val Lys Val Thr Arg
20 25 30

Asn Thr Ala Arg His Glu Ile Gln Asp Leu Asn Val Thr Ser Gln Leu
35 40 45

Arg Gly Asp Phe Glu Ala Ala His Thr Ala Gly Asp Asn Ala His Val
50 55 60

Val Ala Thr Asp Thr Gln Lys Asn Thr Val Tyr Ala Phe Ala Arg Asp
65 70 75 80

Gly Phe Ala Thr Thr Glu Glu Phe Leu Leu Arg Leu Gly Lys His Phe
85 90 95

Thr Glu Gly Phe Asp Trp Val Thr Gly Gly Arg Trp Ala Ala Gln Gln
100 105 110

Phe Phe Trp Asp Arg Ile Asn Asp His Asp His Ala Phe Ser Arg Asn
115 120 125

Lys Ser Glu Val Arg Thr Ala Val Leu Glu Ile Ser Gly Ser Glu Gln
130 135 140

P-2017-14446 TRADUCCIÓN LISTADO SECUENCIAS.txt

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

Ser Glu Phe His Gly Phe Pro Arg Asp Lys Tyr Thr Thr Leu Gln Glu
165 170 175

Thr Thr Asp Arg Ile Leu Ala Thr Asp Val Ser Ala Arg Trp Arg Tyr
180 185 190

Asn Thr Val Glu Val Asp Phe Asp Ala Val Tyr Ala Ser Val Arg Gly
195 200 205

Leu Leu Leu Lys Ala Phe Ala Glu Thr His Ser Leu Ala Leu Gln Gln
210 215 220

Thr Met Tyr Glu Met Gly Arg Ala Val Ile Glu Thr His Pro Glu Ile
225 230 235 240

Asp Glu Ile Lys Met Ser Leu Pro Asn Lys His His Phe Leu Val Asp
245 250 255

Leu Gln Pro Phe Gly Gln Asp Asn Pro Asn Glu Val Phe Tyr Ala Ala
260 265 270

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

Arg Ala Asp
290

<210> 23
<211> 291
<212> PRT
<213> Secuencia artificial

<220>
<223> Uricasa modificada de Arthrobacter globiformis (0 cisteínas) (Variantes RGD, truncamiento de los 11 aminoácidos C-terminales para eliminar la Cys) (truncamiento C-term)

<220>
<221> CARACTERÍSTICA_MISC
<222> (49)..(49)
<223> X es R o cualquier aminoácido natural, a excepción de C

<220>
<221> CARACTERÍSTICA_MISC
<222> (50)..(50)
<223> X es G o cualquier aminoácido natural, a excepción de C

<220>
<221> CARACTERÍSTICA_MISC
<222> (51)..(51)
<223> X es D o cualquier aminoácido natural, a excepción de C

<400> 23

P-2017-14446 TRADUCCIÓN LISTADO SECUENCIAS.txt

Met	Thr	Ala	Thr	Ala	Glu	Thr	Ser	Thr	Gly	Thr	Lys	Val	Val	Leu	Gly	1	5	10	15
Gln	Asn	Gln	Tyr	Gly	Lys	Ala	Glu	Val	Arg	Leu	Val	Lys	Val	Thr	Arg	20	25	30	
Asn	Thr	Ala	Arg	His	Glu	Ile	Gln	Asp	Leu	Asn	Val	Thr	Ser	Gln	Leu	35	40	45	
Xaa	Xaa	Xaa	Phe	Glu	Ala	Ala	His	Thr	Ala	Gly	Asp	Asn	Ala	His	Val	50	55	60	
Val	Ala	Thr	Asp	Thr	Gln	Lys	Asn	Thr	Val	Tyr	Ala	Phe	Ala	Arg	Asp	65	70	75	80
Gly	Phe	Ala	Thr	Thr	Glu	Glu	Phe	Leu	Leu	Arg	Leu	Gly	Lys	His	Phe	85	90	95	
Thr	Glu	Gly	Phe	Asp	Trp	Val	Thr	Gly	Gly	Arg	Trp	Ala	Ala	Gln	Gln	100	105	110	
Phe	Phe	Trp	Asp	Arg	Ile	Asn	Asp	His	Asp	His	Ala	Phe	Ser	Arg	Asn	115	120	125	
Lys	Ser	Glu	Val	Arg	Thr	Ala	Val	Leu	Glu	Ile	Ser	Gly	Ser	Glu	Gln	130	135	140	
Ala	Ile	Val	Ala	Gly	Ile	Glu	Gly	Leu	Thr	Val	Leu	Lys	Ser	Thr	Gly	145	150	155	160
Ser	Glu	Phe	His	Gly	Phe	Pro	Arg	Asp	Lys	Tyr	Thr	Thr	Leu	Gln	Glu	165	170	175	
Thr	Thr	Asp	Arg	Ile	Leu	Ala	Thr	Asp	Val	Ser	Ala	Arg	Trp	Arg	Tyr	180	185	190	
Asn	Thr	Val	Glu	Val	Asp	Phe	Asp	Ala	Val	Tyr	Ala	Ser	Val	Arg	Gly	195	200	205	
Leu	Leu	Leu	Lys	Ala	Phe	Ala	Glu	Thr	His	Ser	Leu	Ala	Leu	Gln	Gln	210	215	220	
Thr	Met	Tyr	Glu	Met	Gly	Arg	Ala	Val	Ile	Glu	Thr	His	Pro	Glu	Ile	225	230	235	240
Asp	Glu	Ile	Lys	Met	Ser	Leu	Pro	Asn	Lys	His	His	Phe	Leu	Val	Asp	245	250	255	
Leu	Gln	Pro	Phe	Gly	Gln	Asp	Asn	Pro	Asn	Glu	Val	Phe	Tyr	Ala	Ala	260	265	270	

P-2017-14446 TRADUCCIÓN LISTADO SECUENCIAS.txt

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

Arg Ala Asp
290

<210> 24
<211> 301
<212> PRT
<213> Secuencia artificial

<220>
<223> Uricasa modificada de Arthrobacter globiformis (0 cisteínas)
(truncamiento de los aa C-terminales para eliminar la cisteína)

<400> 24

Met Thr Ala Thr Ala Glu Thr Ser Thr Gly Thr Lys Val Val Leu Gly
1 5 10 15

Gln Asn Gln Tyr Gly Lys Ala Glu Val Arg Leu Val Lys Val Thr Arg
20 25 30

Asn Thr Ala Arg His Glu Ile Gln Asp Leu Asn Val Thr Ser Gln Leu
35 40 45

Arg Gly Asp Phe Glu Ala Ala His Thr Ala Gly Asp Asn Ala His Val
50 55 60

Val Ala Thr Asp Thr Gln Lys Asn Thr Val Tyr Ala Phe Ala Arg Asp
65 70 75 80

Gly Phe Ala Thr Thr Glu Glu Phe Leu Leu Arg Leu Gly Lys His Phe
85 90 95

Thr Glu Gly Phe Asp Trp Val Thr Gly Gly Arg Trp Ala Ala Gln Gln
100 105 110

Phe Phe Trp Asp Arg Ile Asn Asp His Asp His Ala Phe Ser Arg Asn
115 120 125

Lys Ser Glu Val Arg Thr Ala Val Leu Glu Ile Ser Gly Ser Glu Gln
130 135 140

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

Ser Glu Phe His Gly Phe Pro Arg Asp Lys Tyr Thr Thr Leu Gln Glu
165 170 175

Thr Thr Asp Arg Ile Leu Ala Thr Asp Val Ser Ala Arg Trp Arg Tyr
180 185 190

Asn Thr Val Glu Val Asp Phe Asp Ala Val Tyr Ala Ser Val Arg Gly

195

200

205

Leu Leu Leu Lys Ala Phe Ala Glu Thr His Ser Leu Ala Leu Gln Gln
210 215 220

Thr Met Tyr Glu Met Gly Arg Ala Val Ile Glu Thr His Pro Glu Ile
225 230 235 240

Asp Glu Ile Lys Met Ser Leu Pro Asn Lys His His Phe Leu Val Asp
245 250 255

Leu Gln Pro Phe Gly Gln Asp Asn Pro Asn Glu Val Phe Tyr Ala Ala
260 265 270

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

Arg Ala Asp His Pro Ile Trp Ser Asn Ile Ala Gly Phe
290 295 300

<210> 25

<211> 301

<212> PRT

<213> Secuencia artificial

<220>

<223> Uricasa modificada de Arthrobacter globiformis (0 cisteínas) (variantes de RGD, truncamiento de los aa C-terminales para eliminar la cisteína)

<220>

<221> CARACTERÍSTICA_MISC

<222> (49)..(49)

<223> X es R o cualquier aminoácido natural, a excepción de C

<220>

<221> CARACTERÍSTICA_MISC

<222> (50)..(50)

<223> X es G o cualquier aminoácido natural, a excepción de C

<220>

<221> CARACTERÍSTICA_MISC

<222> (51)..(51)

<223> X es D o cualquier aminoácido natural, a excepción de C

<400> 25

Met Thr Ala Thr Ala Glu Thr Ser Thr Gly Thr Lys Val Val Leu Gly
1 5 10 15

Gln Asn Gln Tyr Gly Lys Ala Glu Val Arg Leu Val Lys Val Thr Arg
20 25 30

Asn Thr Ala Arg His Glu Ile Gln Asp Leu Asn Val Thr Ser Gln Leu
35 40 45

Xaa Xaa Xaa Phe Glu Ala Ala His Thr Ala Gly Asp Asn Ala His Val
50 55 60

P-2017-14446 TRADUCCIÓN LISTADO SECUENCIAS.txt

Val Ala Thr Asp Thr Gln Lys Asn Thr Val Tyr Ala Phe Ala Arg Asp
65 70 75 80

Gly Phe Ala Thr Thr Glu Glu Phe Leu Leu Arg Leu Gly Lys His Phe
85 90 95

Thr Glu Gly Phe Asp Trp Val Thr Gly Gly Arg Trp Ala Ala Gln Gln
100 105 110

Phe Phe Trp Asp Arg Ile Asn Asp His Asp His Ala Phe Ser Arg Asn
115 120 125

Lys Ser Glu Val Arg Thr Ala Val Leu Glu Ile Ser Gly Ser Glu Gln
130 135 140

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

Ser Glu Phe His Gly Phe Pro Arg Asp Lys Tyr Thr Thr Leu Gln Glu
165 170 175

Thr Thr Asp Arg Ile Leu Ala Thr Asp Val Ser Ala Arg Trp Arg Tyr
180 185 190

Asn Thr Val Glu Val Asp Phe Asp Ala Val Tyr Ala Ser Val Arg Gly
195 200 205

Leu Leu Leu Lys Ala Phe Ala Glu Thr His Ser Leu Ala Leu Gln Gln
210 215 220

Thr Met Tyr Glu Met Gly Arg Ala Val Ile Glu Thr His Pro Glu Ile
225 230 235 240

Asp Glu Ile Lys Met Ser Leu Pro Asn Lys His His Phe Leu Val Asp
245 250 255

Leu Gln Pro Phe Gly Gln Asp Asn Pro Asn Glu Val Phe Tyr Ala Ala
260 265 270

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

Arg Ala Asp His Pro Ile Trp Ser Asn Ile Ala Gly Phe
290 295 300

<210> 26

<211> 302

<212> PRT

<213> Secuencia artificial

<220>

<223> Uricasa modificada de Arthrobacter globiformis (variantes RGD) (contiene los 11 aminoácidos C-terminales)

<220>
 <221> CARACTERÍSTICA_MISC
 <222> (49)..(49)
 <223> X es R o cualquier aminoácido natural

<220>
 <221> CARACTERÍSTICA_MISC
 <222> (50)..(50)
 <223> X es G o cualquier aminoácido natural

<220>
 <221> CARACTERÍSTICA_MISC
 <222> (51)..(51)
 <223> X es D o cualquier aminoácido natural

<400> 26

Met Thr Ala Thr Ala Glu Thr Ser Thr Gly Thr Lys Val Val Leu Gly
 1 5 10 15

Gln Asn Gln Tyr Gly Lys Ala Glu Val Arg Leu Val Lys Val Thr Arg
 20 25 30

Asn Thr Ala Arg His Glu Ile Gln Asp Leu Asn Val Thr Ser Gln Leu
 35 40 45

Xaa Xaa Xaa Phe Glu Ala Ala His Thr Ala Gly Asp Asn Ala His Val
 50 55 60

Val Ala Thr Asp Thr Gln Lys Asn Thr Val Tyr Ala Phe Ala Arg Asp
 65 70 75 80

Gly Phe Ala Thr Thr Glu Glu Phe Leu Leu Arg Leu Gly Lys His Phe
 85 90 95

Thr Glu Gly Phe Asp Trp Val Thr Gly Gly Arg Trp Ala Ala Gln Gln
 100 105 110

Phe Phe Trp Asp Arg Ile Asn Asp His Asp His Ala Phe Ser Arg Asn
 115 120 125

Lys Ser Glu Val Arg Thr Ala Val Leu Glu Ile Ser Gly Ser Glu Gln
 130 135 140

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

Ser Glu Phe His Gly Phe Pro Arg Asp Lys Tyr Thr Thr Leu Gln Glu
 165 170 175

Thr Thr Asp Arg Ile Leu Ala Thr Asp Val Ser Ala Arg Trp Arg Tyr
 180 185 190

P-2017-14446 TRADUCCIÓN LISTADO SECUENCIAS.txt

Asn Thr Val Glu Val Asp Phe Asp Ala Val Tyr Ala Ser Val Arg Gly
195 200 205

Leu Leu Leu Lys Ala Phe Ala Glu Thr His Ser Leu Ala Leu Gln Gln
210 215 220

Thr Met Tyr Glu Met Gly Arg Ala Val Ile Glu Thr His Pro Glu Ile
225 230 235 240

Asp Glu Ile Lys Met Ser Leu Pro Asn Lys His His Phe Leu Val Asp
245 250 255

Leu Gln Pro Phe Gly Gln Asp Asn Pro Asn Glu Val Phe Tyr Ala Ala
260 265 270

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

Arg Ala Asp His Pro Ile Trp Ser Asn Ile Ala Gly Phe Cys
290 295 300

<210> 27
<211> 302
<212> PRT
<213> Arthrobacter globiformis
<400> 27

Met Thr Ala Thr Ala Glu Thr Ser Thr Gly Thr Lys Val Val Leu Gly
1 5 10 15

Gln Asn Gln Tyr Gly Lys Ala Glu Val Arg Leu Val Lys Val Thr Arg
20 25 30

Asn Thr Ala Arg His Glu Ile Gln Asp Leu Asn Val Thr Ser Gln Leu
35 40 45

Arg Gly Asp Phe Glu Ala Ala His Thr Ala Gly Asp Asn Ala His Val
50 55 60

Val Ala Thr Asp Thr Gln Lys Asn Thr Val Tyr Ala Phe Ala Arg Asp
65 70 75 80

Gly Phe Ala Thr Thr Glu Glu Phe Leu Leu Arg Leu Gly Lys His Phe
85 90 95

Thr Glu Gly Phe Asp Trp Val Thr Gly Gly Arg Trp Ala Ala Gln Gln
100 105 110

Phe Phe Trp Asp Arg Ile Asn Asp His Asp His Ala Phe Ser Arg Asn
115 120 125

P-2017-14446 TRADUCCIÓN LISTADO SECUENCIAS.txt

Lys Ser Glu Val Arg Thr Ala Val Leu Glu Ile Ser Gly Ser Glu Gln
130 135 140

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

Ser Glu Phe His Gly Phe Pro Arg Asp Lys Tyr Thr Thr Leu Gln Glu
165 170 175

Thr Thr Asp Arg Ile Leu Ala Thr Asp Val Ser Ala Arg Trp Arg Tyr
180 185 190

Asn Thr Val Glu Val Asp Phe Asp Ala Val Tyr Ala Ser Val Arg Gly
195 200 205

Leu Leu Leu Lys Ala Phe Ala Glu Thr His Ser Leu Ala Leu Gln Gln
210 215 220

Thr Met Tyr Glu Met Gly Arg Ala Val Ile Glu Thr His Pro Glu Ile
225 230 235 240

Asp Glu Ile Lys Met Ser Leu Pro Asn Lys His His Phe Leu Val Asp
245 250 255

Leu Gln Pro Phe Gly Gln Asp Asn Pro Asn Glu Val Phe Tyr Ala Ala
260 265 270

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

Arg Ala Asp His Pro Ile Trp Ser Asn Ile Ala Gly Phe Cys
290 295 300

<210> 28
<211> 293
<212> PRT
<213> Deinococcus geothermalis

<400> 28

Met Thr Gln Thr Gln Gln Asn Gln Gln Pro Lys Val Lys Ala Arg Leu
1 5 10 15

Gly Ala Asn Asn Tyr Gly Lys Ala Glu Val Asn Leu Met Lys Val Lys
20 25 30

Arg Asp Ser Glu Arg His Glu Ile Arg Glu Leu Gln Val Arg Val Ala
35 40 45

Leu Ile Gly Asp Phe Ala Ala Ala His Glu Gln Gly Asp Asn Thr Asp
50 55 60

Leu Leu Ala Thr Asp Thr Val Arg Asn Thr Ile Tyr Gly Leu Ala Lys
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65 70 75 80

Glu Gly Phe Gln Ala Ser Pro Glu Ala Phe Gly Lys Glu Leu Ile Ser
85 90 95

His Phe Val Thr Thr Gly Pro Lys Val Thr Gly Gly Phe Met Glu Phe
100 105 110

Thr Glu Tyr Leu Trp Glu Arg Ile Gln Val Gly Gly Glu Gly His Asn
115 120 125

His Ala Phe Val Arg Gln Met Pro Gln Arg Thr Gly Arg Val Glu Ser
130 135 140

Glu Asp Gly Lys Thr Phe Lys Ile Thr Ser Gly Leu Gln Asn Leu Tyr
145 150 155 160

Val Leu Lys Thr Thr Glu Ser Gly Trp Ala Asn Tyr Leu Leu Asn Glu
165 170 175

Arg Phe Thr Thr Leu Pro Glu Thr His Glu Arg Leu Met Ala Ser Phe
180 185 190

Val Thr Ala Lys Trp Glu Tyr Asn Glu Asp Gln Val Asp Tyr Asp Asp
195 200 205

Val Trp Pro Arg Val Tyr Arg Gln Leu Gln Glu Thr Phe Thr Asp His
210 215 220

Tyr Ser Pro Ser Leu Gln Arg Thr Leu Phe Leu Met Gly Gln Ala Val
225 230 235 240

Leu Thr Arg Cys Pro Glu Met Ser Arg Ile Trp Leu Gln Met Pro Asn
245 250 255

Lys His His Leu Gln Tyr Asn Leu Glu Arg Phe Gly Leu Asp Asn Asn
260 265 270

Leu Glu Ile Phe His Val Asp Pro Glu Pro Tyr Gly Leu Met Glu Ala
275 280 285

Trp Val Glu Arg Ala
290

<210> 29

<211> 298

<212> PRT

<213> Deinococcus radiodurans

<400> 29

Met Met Thr Gly Thr Gln Gln Pro Gly Thr Gln Pro Lys Val Lys Val
1 5 10 15

P-2017-14446 TRADUCCIÓN LISTADO SECUENCIAS.txt

Arg Leu Gly Glu Asn Asn Tyr Gly Lys Ala Glu Val Gln Leu Met Lys
20 25 30

Ile Lys Arg Gly Thr Pro Arg His Glu Leu Arg Glu Ala Lys Val Arg
35 40 45

Val Ala Met Tyr Gly Asp Phe Gly Ala Ala His Ser Glu Gly Asp Asn
50 55 60

Thr Asp Leu Val Ala Thr Asp Thr Val Arg Asn Thr Val Tyr Gly Leu
65 70 75 80

Ala Lys Glu Gly Phe Glu Ser Ser Ile Glu Glu Phe Gly Lys Glu Leu
85 90 95

Leu Thr His Phe Val Lys Val Gly Pro Arg Val Thr Gly Gly Phe Ala
100 105 110

Glu Phe Thr Glu His Leu Trp Glu Arg Val Gln Thr Pro Ala Gln Pro
115 120 125

Gln Gly His Asp His Ala Phe Val Arg Gln Met Pro Lys Arg Thr Ala
130 135 140

Arg Val Glu Thr Gln Asp Gly Arg Arg Phe Thr Val Thr Ser Gly Ile
145 150 155 160

Glu Glu Leu Tyr Val Leu Lys Thr Thr Glu Ser Gly Trp Glu Asn Tyr
165 170 175

Leu Leu Asp Glu Arg Phe Thr Thr Leu Pro Glu Thr His Asp Arg Val
180 185 190

Met Ala Thr Phe Val Thr Ala Lys Trp Glu Tyr Ala Val Glu Ser Cys
195 200 205

Asp Tyr Asp Ala Val Trp Glu Arg Val Tyr Arg Gln Ile Gln His Thr
210 215 220

Phe Thr Asp His Tyr Ser Pro Ser Leu Gln Arg Thr Leu Tyr Leu Met
225 230 235 240

Gly Glu Ala Val Leu Ser Val Cys Pro Glu Ile Ser Arg Ile Trp Phe
245 250 255

Gln Met Pro Asn Lys His His Leu Val Tyr Asn Leu Gly Arg Phe Gly
260 265 270

Leu Glu Asn Asn Asn Glu Ile Leu His Val Asp Pro Glu Pro Tyr Gly
275 280 285

Leu Met Glu Ala Trp Val Glu Arg Ala Glu
290 295

<210> 30
<211> 287
<212> PRT
<213> Granulicella tundricola

<400> 30

Met Ala Glu Leu Thr Asp Ala Lys Phe Glu Ile Val Ala Asn Arg Tyr
1 5 10 15

Gly Lys Ser Lys Val Arg Leu Leu Lys Val Thr Arg Ala Glu Gly Arg
20 25 30

Ser Asp Val His Glu Trp Thr Val Gln Val Leu Leu Arg Gly Asp Phe
35 40 45

Glu Thr Ala His Thr Val Gly Asp Asn Ser Lys Ile Val Thr Thr Asp
50 55 60

Thr Met Lys Asn Thr Val Tyr Ser Leu Ala Arg Trp Ser Ser Ala Thr
65 70 75 80

Thr Met Glu Glu Phe Ala Glu Glu Leu Ile Glu His Leu Leu Arg Arg
85 90 95

Asn Glu Gln Val Ser Ser Val Arg Val His Ile Glu Ala Ala Leu Trp
100 105 110

Lys Arg Leu Thr Val Asp Gly Lys Glu His Pro Asp Thr Phe Met Arg
115 120 125

Gly Ser Asn Glu Val Gln Thr Ala Thr Val Glu Gln Ala Arg Ala Gly
130 135 140

Glu Lys Lys Phe Ile Ala Gly Phe Ala Asn Leu Gln Leu Leu Lys Thr
145 150 155 160

Ala Asn Ser Ala Phe Ser Gly Phe Gln Arg Asp Glu Leu Thr Thr Leu
165 170 175

Pro Glu Thr Arg Asp Arg Val Phe Gly Thr Ala Val Asp Ala Lys Trp
180 185 190

Thr Tyr Ser Gly Pro Val Glu Phe Ala Ala Met Arg Lys Ala Ala Arg
195 200 205

Glu Val Met Leu Lys Val Phe Ala Asp His Met Ser Glu Ser Val Gln
210 215 220

P-2017-14446 TRADUCCIÓN LISTADO SECUENCIAS.txt

His Thr Leu Tyr Ala Met Ala Asp Ala Ala Leu Glu Ala Val Ala Glu
225 230 235 240

Ile Thr Glu Ile Glu Leu Ala Met Pro Asn Lys His Cys Leu Leu Val
245 250 255

Asp Leu Ser Lys Phe Gly Gln Asp Asn Pro Asn Gln Ile Phe Val Pro
260 265 270

Thr Asp Glu Pro His Gly Tyr Ile Glu Ala Arg Val Arg Arg Lys
275 280 285

<210> 31
<211> 287
<212> PRT
<213> Solibacter usitatus
<400> 31

Met Glu Arg Phe Ala Ser Gly Trp Lys Gln Asn Tyr Tyr Gly Lys Gly
1 5 10 15

Asp Val Ile Val Tyr Arg Leu Asn Arg Asp Gly Val Val Pro Gln Gly
20 25 30

Cys Cys Pro Val Phe Gly Ala Asn Val Lys Met Leu Leu Tyr Gly Asp
35 40 45

Ala Phe Trp Pro Thr Tyr Thr Thr Gly Asp Asn Thr Asn Leu Val Ala
50 55 60

Thr Asp Ser Met Lys Asn Phe Ile Gln Arg Glu Thr Cys Asn Phe Thr
65 70 75 80

Gly Tyr Asp Leu Glu Ser Tyr Cys Asp Phe Leu Ala Arg Lys Phe Met
85 90 95

Ala Thr Tyr Pro His Thr Ala Gly Ile Gln Leu Ser Ala Arg Gln Ala
100 105 110

Pro Tyr Ser Gly Val Ala Glu Gly Lys Val Ala Phe Ala Pro Ser Gly
115 120 125

Pro Asp Val Ala Thr Ala Cys Val Glu Leu Arg Arg Asn Gly Glu Ala
130 135 140

Leu Glu Ser Val Glu Ala Ser Ser Gly Ile His Gly Phe Arg Leu Leu
145 150 155 160

Arg Leu Gly Gly Ser Ala Phe Gln Gly Phe Leu Arg Asp Gln Tyr Thr
165 170 175

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Thr Leu Pro Asp Ile His Asn Arg Pro Leu His Met Trp Leu Asp Leu
180 185 190

Glu Trp His Tyr Ile Ala Pro Glu Ala Ala Leu Thr Gly Gly Glu Val
195 200 205

Thr Ala Gln Val Arg Arg Leu Val His Glu Gly Phe His Ser Phe Glu
210 215 220

Ser Gly Ser Ile Gln Gln Val Ile Tyr Gln Leu Gly Thr Lys Met Leu
225 230 235 240

Ala Asp Ile Pro Thr Ile Ser Glu Val Arg Leu Glu Ala Asn Asn Arg
245 250 255

Thr Trp Asp Thr Ile Val Glu Gln Gly Asp Arg Leu Gly Val Tyr Thr
260 265 270

Asp Ala Arg Pro Pro Tyr Gly Cys Leu Gly Leu Thr Leu Arg Arg
275 280 285

<210> 32
<211> 280
<212> PRT
<213> Terriglobus saanensis

<400> 32

Met Ala Lys Leu Ile Asp Ser Arg Tyr Gly Lys Ala Arg Val Arg Val
1 5 10 15

Met Lys Leu Asp Arg Ser Gln Pro Gln His Gln Leu Leu Glu Trp Thr
20 25 30

Val Arg Val Leu Leu Glu Gly Asp Phe Glu Thr Ala His Thr Val Gly
35 40 45

Asp Asn Ser Asn Ile Leu Pro Thr Asp Thr Met Lys Asn Thr Val Tyr
50 55 60

Ser Arg Ala Lys Glu Ser Lys Ala Glu Thr Pro Glu Glu Phe Ala Ile
65 70 75 80

Glu Leu Ala Glu Phe Leu Leu Gly Arg Asn Pro Gln Val His Thr Val
85 90 95

Glu Val Lys Ile Glu Thr Ala Met Trp Lys Arg Leu Val Val Asp Gly
100 105 110

Lys Pro His Gly Ser Ser Phe Met Arg Gly Ser Asp Glu Leu Gly Thr
115 120 125

Val Leu His His Ala Thr Arg Glu Thr Lys Thr Met Val Cys Gly Val

130

135

140

Glu Asn Met Val Ile Leu Lys Ser Gln Asn Ser Ser Phe Glu Gly Tyr
145 150 155 160

Ile Gln Asp Asp Leu Thr Thr Leu Lys Pro Thr Ala Asp Arg Leu Phe
165 170 175

Ala Thr Ala Met Thr Ala Asp Trp Asp Tyr Thr Asp Gly Gly Ser Ala
180 185 190

Phe Ala Ala Arg Arg Glu Ala Ile Arg Glu Ala Met Leu Lys Ala Phe
195 200 205

Ala Glu His Asp Ser Lys Ser Val Gln Gln Thr Leu Tyr Ala Met Ala
210 215 220

Glu Ala Ala Met Ala Ala Val Pro Ala Val Asn Arg Val His Met Val
225 230 235 240

Met Pro Asn Lys His Cys Leu Leu Val Asp Leu Lys His Phe Gly Gln
245 250 255

Glu Asn Asn Asn Glu Ile Phe Val Pro Thr Glu Asp Pro His Gly Tyr
260 265 270

Ile Glu Ala Thr Val Val Arg Glu
275 280

<210> 33

<211> 326

<212> PRT

<213> Kyrpidia tusciae

<400> 33

Met Ile Met Thr Gly Thr Met Thr Ser Gly Thr Asp Gln Arg Thr Met
1 5 10 15

Tyr Tyr Gly Lys Gly Asp Val Trp Val Tyr Arg Ser Tyr Ala Lys Pro
20 25 30

Leu Arg Gly Leu Gly Gln Ile Pro Glu Ser Ala Phe Ala Gly Arg Pro
35 40 45

Asn Val Ile Phe Gly Met Asn Val Gln Met Ala Val Glu Gly Glu Ala
50 55 60

Phe Leu Pro Ser Phe Thr Glu Gly Asp Asn Ser Met Val Val Ala Thr
65 70 75 80

Asp Ser Met Lys Asn Phe Ile Leu Arg Gln Ala Gly Ala Phe Glu Gly
85 90 95

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Ala Thr Ala Glu Gly Phe Leu Glu Phe Val Ala Gly Lys Phe Leu Glu
100 105 110

Lys Tyr Ala His Val Ser Gly Val Arg Leu Phe Gly Arg Gln Ile Pro
115 120 125

Phe Asp Glu Leu Pro Val Pro Glu Gln Glu Gly Phe Arg Pro Gly Glu
130 135 140

Leu Val Phe Arg Tyr Ser Met Asn Glu Tyr Pro Thr Ala Phe Val Ala
145 150 155 160

Val Arg Arg Gly Pro Glu Gly Pro Val Val Val Glu His Ala Gly Gly
165 170 175

Val Ala Gly Leu Lys Leu Ile Lys Ile Lys Gly Ser Ser Phe Tyr Gly
180 185 190

Tyr Ile His Asp Glu Tyr Thr Thr Leu Pro Glu Ala Gln Asp Arg Pro
195 200 205

Leu Phe Ile Tyr Leu Tyr Ile Lys Trp Lys Tyr Glu His Pro Glu Asp
210 215 220

Phe Arg Ala Glu His Pro Glu Arg Tyr Val Ala Ala Glu Gln Val Arg
225 230 235 240

Asp Ile Ala His Thr Val Phe His Glu Leu Thr Ser Pro Ser Ile Gln
245 250 255

Asn Leu Ile Tyr His Ile Gly Arg Arg Val Leu Thr Arg Phe Pro Gln
260 265 270

Leu Leu Glu Val Ser Phe Glu Ala Asn Asn Arg Thr Trp Glu Thr Val
275 280 285

Leu Glu Glu Val Glu Asp Leu Ala Gly Lys Arg Ala Glu Ala Lys Val
290 295 300

Tyr Thr Glu Pro Arg Pro Pro Tyr Gly Phe Gln Gly Phe Thr Val Thr
305 310 315 320

Arg Lys Asp Leu Glu Glu
325

<210> 34
<211> 304
<212> PRT
<213> Secuencia artificial

<220>

<223> Secuencia consenso de uricasa procedente del alineamiento

<400> 34

Met Thr Ala Thr Ala Glu Thr Ser Thr Gly Thr Lys Ile Val Leu Gly
1 5 10 15

Gln Asn Gln Tyr Gly Lys Ala Glu Val Arg Val Val Lys Ile Thr Arg
20 25 30

Asp Gly Asp Thr His His Ile Lys Asp Leu Asn Val Ser Val Ala Leu
35 40 45

Ser Gly Asp Met Asp Ala Val His Leu Ser Gly Asp Asn Ala Asn Val
50 55 60

Leu Pro Thr Asp Thr Gln Lys Asn Thr Val Tyr Ala Phe Ala Lys Glu
65 70 75 80

His Gly Ile Gly Ser Ala Glu Gln Phe Gly Ile Arg Leu Ala Arg His
85 90 95

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

Glu Tyr Ala Trp Glu Arg Ile Glu Thr Ser His Asp His Ser Phe Val
115 120 125

Arg Lys Gly Gln Glu Thr Arg Thr Ala Gln Ile Thr Tyr Asp Gly Asp
130 135 140

Trp Glu Val Val Ser Gly Leu Lys Asp Leu Thr Val Leu Asn Ser Thr
145 150 155 160

Gly Ser Glu Phe Trp Gly Tyr Val Lys Asp Lys Tyr Thr Thr Leu Pro
165 170 175

Glu Thr Tyr Asp Arg Ile Leu Ala Thr Asp Val Ser Ala Arg Trp Arg
180 185 190

Tyr Asn Trp Thr Asp Asp Gln Pro Met Pro Asp Trp Asp Lys Ser Tyr
195 200 205

Glu Gln Val Arg Lys His Leu Leu Glu Ala Phe Ala Glu Thr Tyr Ser
210 215 220

Leu Ser Leu Gln Gln Thr Leu Tyr Gln Met Gly Ser Arg Val Leu Glu
225 230 235 240

Ala Arg Pro Glu Ile Asp Glu Ile Arg Phe Ser Leu Pro Asn Lys His
245 250 255

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His Phe Leu Val Asp Leu Glu Pro Phe Gly Leu Asp Asn Asp Asn Glu
 260 265 270

Val Tyr Phe Ala Ala Asp Arg Pro Tyr Gly Leu Ile Glu Ala Thr Val
 275 280 285

Leu Arg Asp Gly Ala Glu Pro Arg Ile Pro Val Asp Met Thr Asn Leu
 290 295 300