

Spanish Seq Listing_REVISADO
1047121-ST25_sequencesv1-substitute updated Seq 1-134
LISTADO DE SECUENCIAS

<110> Dow AgroSciences LLC
Narva, Kenneth E.
Li, Huarong
Geng, Chaoxian
Arora, Kanika
Veeramani, Balaji
Gandra, Premchand
Worden, Sarah E.
Vilcinskas, Andreas
Knorr, Eileen
Fishilevich, Elane
Rangasamy, Murugesan
Frey, Meghan

<120> RAS OPUESTO (ROP) Y MOLÉCULAS DE ÁCIDO NUCLEICO RELACIONADAS
QUE CONFIEREN RESISTENCIA A LAS PLAGAS DE COLEÓPTEROS Y HEMÍPTEROS

<130> 74683-US-PSP

<160> 134

<170> PatentIn version 3.5

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35 40 45

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Thr Leu Val Glu Asp Ile Met Lys Lys Arg Glu Pro Leu Gly Thr Met
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Glu Ala Val Tyr Leu Ile Thr Pro Ser Glu Lys Ser Val His Ala Leu
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Met Asn Asp Phe Glu Pro Pro Arg Gln Met Tyr Arg Gly Ala His Val
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Phe Phe Thr Glu Ala Cys Pro Asp Gln Leu Phe Ser Thr Leu Cys His
115 120 125

His Pro Val Ala Lys Phe Ile Lys Thr Leu Lys Glu Ile Asn Ile Ala
130 135 140

Phe Ile Pro Thr Glu Ser Gln Val Phe Ser Leu Asp Ser Pro Asp Thr
145 150 155 160

Phe Gln Cys Ser Tyr Asp Pro Ser Phe Ser Ala Ala Arg Asn Ala Asn
165 170 175

Met Glu Arg Met Ala Glu Gln Ile Ala Thr Leu Cys Ala Thr Leu Gly
180 185 190

Spanish Seq Listing_REVISADO

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210 215 220

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225 230 235 240

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245 250 255

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

Lys Tyr Glu Ala Ser Ala Gly Val Met Lys Glu Val Leu Leu Asp Glu
275 280 285

Asn Asp Glu Leu Trp Val Asp Leu Arg His Gln His Ile Ala Val Val
290 295 300

Ser Gln Ser Val Thr Lys Asn Leu Lys Lys Phe Thr Asp Ser Lys Arg
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Met Thr Gln Ser Asp Lys Gln Ser Met Lys Asp Leu Ser Thr Met Ile
325 330 335

Lys Lys Met Pro Gln Tyr Gln Lys Glu Leu Ser Lys Tyr Ala Thr His
340 345 350

Leu His Leu Ala Glu Asp Cys Met Lys Ala Tyr Gln Gly Tyr Ile Asp
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Lys Leu Cys Lys Val Glu Gln Asp Leu Ala Met Gly Thr Asp Ala Glu
370 375 380

Gly Glu Lys Ile Lys Asp His Met Arg Asn Ile Val Pro Ile Leu Leu
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Asp Pro Lys Ile Thr Asn Glu Tyr Asp Lys Met Arg Ile Ile Ala Leu
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Tyr Ala Met Thr Lys Asn Gly Ile Thr Asp Glu Asn Leu Ser Lys Leu
420 425 430

Ala Thr His Ala Gln Ile Lys Asp Lys Gln Thr Ile Ala Asn Leu Gln
435 440 445

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Leu Leu Gly Val Asn Val Ile Asn Asp Gly Gly Pro Arg Lys Lys Gln
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Tyr Thr Val Pro Arg Lys Glu Arg Ile Thr Glu Gln Thr Tyr Gln Met
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Ser Arg Trp Thr Pro Ile Ile Lys Asp Ile Met Glu Asp Cys Ile Asp
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Asp Lys Leu Asp Gln Lys His Tyr Pro Tyr Leu Ser Gly Arg Ala Gln
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Ser Thr Gly Tyr His Ala Ala Pro Ser Ser Ala Arg Tyr Gly Gln Trp
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His Lys Asp Arg Gly Gln Gln Ala Val Lys Asn Val Pro Arg Leu Leu
530 535 540

Val Phe Val Val Gly Gly Ile Ser Phe Ser Glu Ile Arg Cys Ala Tyr
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Spanish Seq Listing_REVISADO

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Spanish Seq Listing_REVISADO

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<210> 19
 <211> 424
 <212> ADN
 <213> Diabrotica virgifera

<220>
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 <222> (393)..(393)
 <223> n es a, c, g, o t

Spanish Seq Listing_REVISADO

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<220>
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<222> (394)..(394)
<223> n es a, c, g, o t

<220>
<221> carcaterísticas misceláneas
<222> (395)..(395)
<223> n es a, c, g, o t

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gggcatccca ttgaaaaagc cattgaaaac gagttttcag gaaatgctaa acaagccatg 180
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gaaatcgatc tagaggaaat caaacaatgc tatgaagaaa tctacagtaa aaccttggct 360
gataggatag cggatgacac atctggcgac tannnaaaag ccttattagc cgttgttggt 420
taag 424

<210> 20
<211> 397
<212> ADN
<213> Diabrotica virgifera

<400> 20
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tggtagaac gttgatgcag tggatggacg aatggac 397

<210> 21
<211> 490
<212> ADN
<213> Diabrotica virgifera

<400> 21
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tttaggaaaag gaattgttga gccgtaatca ctatgctagt gctgatatta aggataaatt 180
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tgaaaacttg ataaagaaac acgaagcggt cgaaaaatcg gcagcggcgc aagaagagag	420
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gcctttcctc caaaatatca agaacctcga caagtttggg ttggagagttt agatacgata	180
gacgacaaaa aattgggtat tcttgagctg catcctgatg tttttgctac taatccaaga	240
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 <211> 320
 <212> ADN
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<210> 25
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Spanish Seq Listing_REVISADO

<212> ADN
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 <220>
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 <400> 25
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 <210> 26
 <211> 22
 <212> ADN
 <213> Secuencia artificial

 <220>
 <223> Cebador de Oligonucleótido PCR

 <400> 26
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 <210> 27
 <211> 53
 <212> ADN
 <213> Secuencia artificial

 <220>
 <223> Cebador de Oligonucleótido PCR

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 <210> 28
 <211> 48
 <212> ADN
 <213> Secuencia artificial

 <220>
 <223> Cebador de Oligonucleótido PCR

 <400> 28
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 <210> 29
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 <220>
 <223> Cebador de Oligonucleótido PCR

 <400> 29
 cttaaccaac aacggctaata aagg 24

 <210> 30
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 <212> ADN
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Spanish Seq Listing_REVISADO

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<220>
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<210> 31
<211> 48
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<220>
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<210> 32
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<220>
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<210> 33
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<220>
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<210> 34
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<220>
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<400> 34
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<210> 35
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<212> ADN
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<220>
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Spanish Seq Listing_REVISADO

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<210> 38
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<400> 38
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<220>
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Spanish Seq Listing_REVISADO

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 <400> 43
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 <210> 44
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 <400> 44
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 <210> 46
 <211> 26

Spanish Seq Listing_REVISADO

<212> ADN
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 <220>
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 <400> 46
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 <210> 47
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 <210> 48
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 <212> ADN
 <213> Zea mays

 <400> 48
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Spanish Seq Listing_REVISADO

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<220>
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 <223> n es a, c, g, o t

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<210> 50
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<220>
 <223> P5U76S (F) Cebador de Oligonucleótido PCR

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<210> 51
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<220>
 <223> P5U76A (R) Cebador de Oligonucleótido PCR

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<210> 52
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<213> Secuencia artificial
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 <223> TIPmxR Cebador de Oligonucleótido PCR
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<210> 54
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<210> 56
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<210> 57
 <211> 4233
 <212> ADN
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Spanish Seq Listing_REVISADO

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Spanish Seq Listing_REVISADO

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Spanish Seq Listing_REVISADO

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 <223> ST-LS1-P Oligonucleótido de Sonda

<400> 60
 agtaatatag tatttcaagt atttttttca aaat 34

<210> 61
 <211> 20
 <212> ADN
 <213> Secuencia artificial

<220>
 <223> GAAD1-F Cebador de Oligonucleótido PCR

<400> 61
 tgttcgggtc cctctaccaa 20

<210> 62
 <211> 22
 <212> ADN
 <213> Secuencia artificial

Spanish Seq Listing_REVISADO

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<220>
<223>   GAAD1-R Cebador de Oligonucleótido PCR

<400>   62
caacatccat caccttgact ga                                22

<210>   63
<211>   24
<212>   ADN
<213>   Secuencia artificial

<220>
<223>   GAAD1-P Oligonucleótido de Sonda

<400>   63
cacagaaccg tcgcttcagc aaca                                24

<210>   64
<211>   18
<212>   ADN
<213>   Secuencia artificial

<220>
<223>   IVR1-F Cebador de Oligonucleótido PCR

<400>   64
tggcggacga cgacttgt                                      18

<210>   65
<211>   19
<212>   ADN
<213>   Secuencia artificial

<220>
<223>   IVR1-R Cebador de Oligonucleótido PCR

<400>   65
aaagtttgga ggctgccgt                                      19

<210>   66
<211>   26
<212>   ADN
<213>   Secuencia artificial

<220>
<223>   IVR1-P Oligonucleótido de Sonda

<400>   66
cgagcagacc gccgtgtact tctacc                                26

<210>   67
<211>   19
<212>   ADN
<213>   Secuencia artificial

<220>
<223>   SPC1A Cebador de Oligonucleótido PCR

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Spanish Seq Listing_REVISADO

<400> 67
cttagctgga taacgccac 19

<210> 68
<211> 19
<212> ADN
<213> Secuencia artificial

<220>
<223> SPC1S Cebador de Oligonucleótido PCR

<400> 68
gaccgtaagg cttgatgaa 19

<210> 69
<211> 21
<212> ADN
<213> Secuencia artificial

<220>
<223> TQSPEC Oligonucleótido de Sonda

<400> 69
cgagattctc cgcgctgtag a 21

<210> 70
<211> 393
<212> ADN
<213> Diabrotica virgifera

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gttttcgtcc agcagcacct ccttgtcggt ggcatcgggt gccggcaciaa acttgtaaac 180
atcggtgacg atgggcaaca gatcgtaggc catcgcttgt agtgtcagct cgtgtagcag 240
cggcgtgaca cagtcaaagc ctcgatccaa aattaacagt tgagaacggg ccttttcggg 300
tccttcgccc attgttggtt catccgcttt ataagcatcc aatttctggt gaatcaattg 360
ggccaattca acatttcgat cccaatcgct tcg 393

<210> 71
<211> 240
<212> ADN
<213> Diabrotica virgifera

<400> 71
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agggacgtct gggatcgctt cgcgctcggc gtcaatgagc atgtggagcg tcacgccctt 180
gcgccgggagc tcgtggagct tgaggatcgg cgagatgatg tcgcggcaga acttgctgta 240

Spanish Seq Listing_REVISADO

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<210> 72
<211> 287
<212> ADN
<213> Diabrotica virgifera

<400> 72
g c g c g a c t c t c t a t c g c c g a g c a g g a t g c c g t c a a c g c a c t c g t t t a c c t c g g c g t a c g t 60
a t c a c t c g t g g a c c g a a t g a c a g g g a c a t c a a g c g t a a g a t c a a g c a a a a g c c c g c t c a g 120
g a c g a a g a a t a t g a c c t g t c g c g a t a t a a g c c g t t g t t g c g t a c a a t g g t c g a g g a a c a t 180
g t g t c t g g c a a a c t c g a c g a a a c a c t c t t t c c t a t g t g a a g g a c t c t c c t c t c g c a g g a 240
g c g t c t g c t t c c c c c a a g g t g g c c g c c c c g c c c c a a c g a c c t c t c t 287

<210> 73
<211> 216
<212> ADN
<213> Diabrotica virgifera

<400> 73
g t t t t c t c g g a g t c a a t a t c g t a t c a g a t g g c a a c a g a a a g a a g a c a t a c a c c g t a c c a c 60
g a a a g g a g c g c a t c a c c g a a c a c a c t t a t c a a a t g t c c a g a t g g a c t c c g g t c a t c a a a g 120
a c a t a a t g g a a g a t t g c a t t g a a g a c a a a c t g g a t g c t c g a c a t t t c c c g t t c t t g g c t g 180
g a c g c g c c c a a a g t a c t g c c t a t c a c g c a c c g a c a a 216

<210> 74
<211> 215
<212> ADN
<213> Diabrotica virgifera

<400> 74
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t t t t a c c t g t a c g t t c g c c c a t t c c t c c a a g t t g c c a t a t t c a a c a t a t c c t g c g c c t c 120
c t a c a a c a a a c a c t g t c g a c t c t c c g a a c g c c a t a c g c c g t g g t c g c c c t t g c g c g c c t g 180
c g c c c g c a c c g g a a t a g c c c g c a t t t g g a t t g c g t 215

<210> 75
<211> 292
<212> ADN
<213> Diabrotica virgifera

<400> 75
c c c g g t a c t c c t c g t a a t c t c a g c a g c a t c g g c c t t g t a t t t g t t g a g c t c g g c a t c g a t 60
g t c c t c g g c a a c c t c t g g g a a c g g a t t c g c a c t g t t c t t t g c c c a a a a g a a g t c t t t t g c 120
a t c a a g g t c g t a c c c c t t c t t c t t g c c a t c a g g a c c a g c t a c t g t t a c g c g g t t a a g c t t 180
c a a c g t g a g g c a g t c g g a a a c g a g g g a c t g a t a g g t c c a g c c a t g a g a g a t c a t g g g t a c 240

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Spanish Seq Listing_REVISADO

aagggtcaccg ttgcgatcga caagtaggag aagaggacgt tgtaggttag at 292

<210> 76
<211> 2105
<212> ADN
<213> Diabrotica virgifera

<400> 76
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 cataagatat cctctttgcg ttacccgccg ttgtctttac tttcgcataa tcaactagat 180
 tttgatattc aatataat tccacctcaa caacaaaaac tatagcctct tggaatgccg 240
 atcgatttct gggaatttca gttaatttca gttgttttgg atctaaataa aaatactcct 300
 ccatttctga actattttta aattccatga gattatcaac tattttcgtt acgggaagat 360
 tatgtctctt aattactaaa tttttaactc cttccattac aaagtttgaa ccttgtgata 420
 ccaacttgga aaacatatta acagttttgg ttccggcacc ttcattatga ttccctatcc 480
 cacttgccat tttagtatag ctcttccatc ttttgatata cagcagtggg gataaatcac 540
 agccagcctc ggtaaggcg ttttcatatt tgtgtaaaac gtgatccgag atatgagggg 600
 tacaataaaa atatattata aatagccgca atttatcttc aggtgtcccc gctgtaggat 660
 ctgctaatat atccattagc agtttttcca ggccttgtgc tttgctcatt attttctcct 720
 ctaattcaaa gaacgtgtct aattttctag atttaattgca gttaagcaaa gatgtagcta 780
 cagaagtatg catgtcaatc aggcgtttct tttctaataa ttgtggcaag gaattgacag 840
 ccgacgttat cttagctgta ttatcagaca ccatcgtaa agcgatatca ttttcgttat 900
 cgattcccat tgaacttttt agtttcttca cttccccctc tgacgatttg tactgttcta 960
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 ccgactcttc aatagtaacg cggttttagag ccaaattctaa cagatcatga gcaagtgcct 1140
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 atagaggcct ctggaaatta aaattgccgg actgtgcgtc cgaaacaaac aaattgtttc 1260
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 cgtttccttt aggacttcga attattggca cagttcctaa agttacaaag actgaaaaca 1380
 agctgtccac tatgttggtc ataatagcct ccatttctga atcttttata tcaccttgt 1440
 ttatactgta atatgacata atatcactgt tttggtgttt taggacaaat aaatcatctt 1500
 ccaatgaaat gaagtttatg tattgatcat aaaccttatg aatatttgct acgctgtttg 1560
 cagctattgc tgctgaagct agatcctcta atttatctct agatatcgga gaaataaaat 1620

Spanish Seq Listing_REVISADO

ttaagtggta tatgtcatat gttcctcttt ggaaatcttg acttataccta tctaaattat	1680
cttctgtggc agcacaaaaa tatattgcag gaacctctgg tattggatct ctatccgaat	1740
gtaactgaac aaacaatgta acgccttggt ctctcaattc tttcacagaa attaagggcg	1800
atataatgtc ttgccctatt ctgtcgtaaa ttaatacttt ccatacaggt tcagaggctg	1860
ataacttagt ctgggggtga tttaaattta acatttgctt tatagcattg atttgtttct	1920
gtcttaaaga cgtcatagtt gaattaaagt ttctggaaaa agttaaaaca aattaattat	1980
atgtttaata tttaatatta aaatacgtgg acttagaaaac ccattcgaaa tctgtgagct	2040
gtcaccgctc ttcttaatgt caatgacgtt ctgtttcgac ttgtggaagt cttgttttgt	2100
tttgg	2105

<210> 77
 <211> 315
 <212> ADN
 <213> Diabrotica virgifera

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cctccgacgg agtgatcaaa taaacggcat ccatggtcgg caagggttca cgttttttgt	120
ggatgtcttc gaccaaagtt atgccctcgg cgctgatgtc atgcatttta cagcacgcgg	180
ataccatacg catagccagc ttatccacta caagaatacg ccattcaaca gttggcgctt	240
tgccagtagc tggcttcttc gtagctggac cttgttagcg gatcaattaa ttcataattt	300
ttttgaccga ctg	315

<210> 78
 <211> 212
 <212> ADN
 <213> Diabrotica virgifera

<400> 78	
cggagagacg aaatagaccg ccggtacgtc ttgcagtggg gggcgattcg aatgtagttg	60
tacatggagc gtcgcaccag catctcgcaa gtcttgacg cggagaactg ttgcaagtac	120
atcctgagtt tgcgcatcga ggacgaggac cttccacaca agcggccctg tctgtactgg	180
cgtgctgcct cccgcttgcg cgctgcttt cg	212

<210> 79
 <211> 267
 <212> ADN
 <213> Diabrotica virgifera

<400> 79	
cgccgccacc ggagagcgcc gcccgggtgga gaaccaatct tgcgagggga gaggtggcac	60
gcgagtacga gagcgcggag agcgattatg tgagcaggca ctttgctttt gctgtgcaaa	120

Spanish Seq Listing_REVISADO

aggtattgga agattacaaa cggaataact ccgacttccc taaaaaatca gaccgtggtc 180
 gggctactct aatcatcacg gaccgggcct tcgacatgtt cgctcctttg cttcacgaat 240
 tcacgtacca agcgatgtgc aatgacc 267

<210> 80
 <211> 259
 <212> ADN
 <213> Diabrotica virgifera

<400> 80
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 aagccctacc tgaacaatta cttgagaagc tatttttcgtc gtccgcagag ccatacttga 120
 aggggggtgaa agaactattc ctgaactact gggcaattga ggcacaagca ttcactctcc 180
 gtaaccctgc catgtttttc agcatgtatg cgcctccaaa gacagagaat gagttccggt 240
 ctgctagaga caggctgga 259

<210> 81
 <211> 317
 <212> ADN
 <213> Diabrotica virgifera

<400> 81
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 gttcgacgtt tgcaacggta ggaagcttgt ccttctcaaa tatgctcatg cactgctccg 120
 ccatattaag atgaagagag aacttttcgc gcatctcctg atattgcggt agatttgcgga 180
 gcatgtcctt catatcggtc aaacttgccg caccctctcc cttgaatcca gcattttctt 240
 ctaagaactt gttgaagtct gccataagct tgtcgatcgc ctctcgcata tgcattgtgcc 300
 gaacttcggt ccaaacg 317

<210> 82
 <211> 867
 <212> ADN
 <213> Diabrotica virgifera

<400> 82
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 atcagtggag cagcttatac aggatttcaa atctgagaag aagcccaactt acagatcagt 120
 ccatatattt tggctgacga gcatagctgc cgccccgaa ttaatggagt tgattggatc 180
 ttgctcccc ctcttgactc gcatcaaadc gtttgtcgat ttcaatcttc actttcgagc 240
 gtttgagagt cgagtgttcc atttggatct ccccttggcg ttaaggcaac tgctgacaaa 300
 aaatgtgaag ctagacgaga gtttactcag actgatcgcg gccagactcg ccacagtctg 360
 tatcaccatg ggtgagacac ctagcatacg attcctcggc gacggaccac acgccgctct 420

Spanish Seq Listing_REVISADO

caatcgtaag gttgcacagt acgttcaaga atactttgac agcgtcaaag tcaccggact	480
caatcgaagc aaatcagagc tgattataat cgaccgttcc atcgatgtat gcgtcatgct	540
agtgcattgag tatacttatac aagccctggc ttacgacgtc ctcgaaatac cgatctgtgt	600
gccacccggc caaaaactct tgtcaaacgg agaacagcga atggaagaca cgtattcttt	660
cgatgatccg aagaagggga acaagatgtt tcttttgtct gaacaagacg agctgtatgt	720
tagatacagg cacaagcata ttgcctcagt aatcaccggc gtcaatgacg aactgaaaaa	780
attctcaaaa gacaacgctg ctgcgagta caacaccaag ggggccacta aggcagaagg	840
tgggtgtggat gtggctcagg ccattcg	867

<210> 83
 <211> 944
 <212> ADN
 <213> Diabrotica virgifera

<400> 83	
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cggaggtggg cgcagacaca actagactag tcaacgaatt tcgtggtaaa cttgaattct	120
tgaatagcgg ctcagcgact gacactgtga gaaacgcgct ggagatggct ccgcacgtgc	180
tagcgcaaaa gaaggcactc gatatgcaca caataattgc tcaagcgttg tacgacgaat	240
tagagaaacg atcgattcct gaatactgtc atattgaaag cgacttgta gacaatgtcg	300
cctcgtcgag ggggggttaac tttcaggccg ttcgagatat gctagataaa ggttcacttg	360
aagataagca gcgtttgata tgctgcgtgt acaccgtgtg taaagatcaa gacgcaaaga	420
tcaatagtct ctgccacctt ctcaaagtaa atgtcgccga tcctactata atcccggcgt	480
taaaatttct gaggtaccaa gatagtctag ctctcagatc gacacaacct acttacgaca	540
gtctaaagat agagagtctt gtgtcgtcta aatcagcagc cggattaagc agtgggtcaag	600
cagggggcac ttcgggtaac caaagtgtc cgaactttgg cgagtttggg aacaaagcga	660
aaggatgggt gtatcagtca ctcaagcaat tgatcaatct gaaacagaga ccaaagatcg	720
tcagtttggg tgaaggacta tctcaacaag gcaaaatcag tgagcagtac gacactctcg	780
acccttggg agttcctggg gatgttcggc aaaccagtgt gaatagtatt attcttttct	840
tgctgggtgg cgcgagttac atagaagccg aggtgctag cagatgggct actgacaatg	900
gcaaaaacct gattgttggg tctaccgctc ttctgagacc gtgc	944

<210> 84
 <211> 2274
 <212> ADN
 <213> Diabrotica virgifera

<400> 84	
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Spanish Seq Listing_REVISADO

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cgtactccga	aggttaataa	gataacgtat	cacagtacaa	aatagataga	aatataacat	240
aactaaaaat	atcgattatg	gcataaatac	cacatataca	aagaaaacaa	aatctttaat	300
ggcatcttgt	ctttgagacc	aaccaagaac	attaataaag	cttttatttc	tcaatttagc	360
tggtattttt	cgcataaaaag	attaaaagag	cgtaggaatg	taatattagt	tttcaataat	420
ggaattcaaa	aatgtcgtcc	cattaatcaa	cttggtagta	cctattacaa	attcaacatt	480
tgaatcttct	tgcgtaggata	aaaatctcag	agcagatatac	tctgcaaagt	tacatccacc	540
aataaagaat	acaagaactg	tttgtggtaga	atctgaattt	attatagtgt	taactgatct	600
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tccagttctg	gttacatgtt	ccactaatct	gatactcatt	ggtgcgtata	tactatgaac	720
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tctcagaact	gtgtattgtc	tagtactaga	ttgaagtttc	aatagtccaa	ctttttccaa	840
tttcgatatt	gccagaaggg	cctccaggcc	gtaaacctgt	actagatccc	ttttatagct	900
ttccaaaatt	ttgggcttta	atccagaact	tgcgatacat	tgtaaacaca	ttaaccttaa	960
cactttcacc	attggtttgc	tctgagcgat	catttcttca	atgtaagcac	tgggtttgtc	1020
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atccgtgatt	tccttaatac	attccgcaat	tgctgtatgt	gttgccagtt	gctttttctt	1140
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aatacatgac	tgttgattat	ttttcatatc	ttcactgtta	ttcttttctc	tttgcaatct	1560
aaccacaaga	tcccaaactt	gcttagctgc	atttcctttg	ccccaaactt	taggaatagt	1620
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gttttcaatt	gtgtactccc	taaaaatact	aaaaacctca	gatatttcca	ttgatactaa	1740
gtcagattca	aatggaaaaa	gctggcattt	gaattcatca	attaacatta	cgcttccata	1800
gactccttta	tgtttcaatc	tttccatgca	caataagctt	ttcttttggt	caaaaaacaa	1860
atgggtattgc	ttcttactgc	cacttttcgt	tttactgtca	gcatgtacat	tttgtgcaat	1920

Spanish Seq Listing_REVISADO

gtagtccatc agatacaatt tgggccttga gatgaagata atatgatcga catcagtttc	1980
aggtaaaggc atatttcgaa gtgggaacat cttaggagcc tggtgctcct tgaggattgc	2040
atatttggct acaagtccaa ctgggtccagc taagctgtta tcccaaacaa tgactttcct	2100
accaggacat tgttctaaaa ggtttatcag gtttgcccta gctgctgctt gaattaagga	2160
tatatctact tttccacttt gcatgtgagc catatttcac tttagccttt aacttaacta	2220
taactgatca aaagaggtgg atttaaatgt ttatatttta ttctgtcact gtcg	2274

<210> 85
 <211> 575
 <212> ADN
 <213> Diabrotica virgifera

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taactcttca ttcttatgta ttttgtggac atgtttgagc gagctcgac caggccatt	180
ctcctccgat ttggcgcat tggacaagtc taaagaaccg aatgtatcaa ttatctgctc	240
aatctccagg gacatgcctg ctgcgcaat cattttcttc ttatcttcag cttgtactcc	300
gtccatcatt gaaaaatata gcagcagcaa tctaaccctc tcggtcatta tcacaccact	360
tttgtcagaa acaagcttag caagctcctc cagaatcttc aacacctgaa cagacttgcc	420
gtgcttatct acccctgtcg ctagatcctg ctctaatacg ccagctctga aaatccctgt	480
ttgattgaga gtactaaagc agctctcaga catattgata tgattcatga acttctcgag	540
catttccgag tactgaggaa gagcccgaat ggcct	575

<210> 86
 <211> 276
 <212> ADN
 <213> Diabrotica virgifera

<400> 86	
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gcatgtcagt catgggctg acgaactgta agtcataagc catgtatttt cgtgaagcct	120
cgctctgaag tattatggtc aggttctttt cagtcgcctc tacgaagtac acagcacaca	180
catcctcaac tgggctccgt tcagaggcta tatgcaacat tagagtaacg ccttgctggc	240
gaagttcgcc gactttcacc accggggcga tgatca	276

<210> 87
 <211> 260
 <212> ADN
 <213> Diabrotica virgifera

<400> 87

Spanish Seq Listing_REVISADO

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Spanish Seq Listing_REVISADO

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<210> 111
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<212> ADN
<213> Diabrotica virgifera

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ggatcatcgt ttcgtcgtg gtggtatcac ccactctgaa atccgttccg cctaccagct     180
cttcgacaag agggaggtga tcatcggagg cacgtccatc ctgacccac acaagttcac     240
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Spanish Seq Listing_REVISADO

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<212> ADN
<213> Secuencia artificial

<220>
<223> ROPv3FT7 Oligonucleótido de cebador

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<220>
<223> ROPv3RT7 Oligonucleótido de cebador

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<210> 114
<211> 191
<212> ADN
<213> Diabrotica virgifera

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<210> 115
<211> 2238
<212> ADN
<213> Euschistus heros

<400> 115
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cagaccagtt tgacacttga cacaacgag tgaaaatggc gctgaaagct ctcgttggtc 180

aaaaaattat gaacgatgcg atcaggcaaa agaaaaaagg gaaagaggta gagggtgagag 240

tccttgctgt ggatcagcta gcgatgcgga tgatctctgc ttgctgtaaa atgcatgaaa 300

tttctgccga gggcttaacg attgttgaag acattaataa aaagagggag ccacttccat 360

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Spanish Seq Listing_REVISADO

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Spanish Seq Listing_REVISADO

<210> 116
 <211> 585
 <212> PRT
 <213> Euschistus heros
 <400> 116

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

Spanish Seq Listing_REVISADO

Lys Lys Phe Thr Glu Ser Lys Arg Met Pro Gln Gly Asp Lys Gln Ser
 305 310 315 320
 Met Arg Asp Leu Ser Gln Met Ile Lys Lys Met Pro Gln Tyr Gln Lys
 325 330 335
 Glu Leu Ser Lys Tyr Ser Thr His Leu His Leu Ala Glu Asp Cys Met
 340 345 350
 Asn Ala Tyr Gln Gly His Val Asp Lys Leu Cys Lys Val Glu Gln Asp
 355 360 365
 Leu Ala Met Gly Thr Asp Ala Glu Gly Glu Arg Ile Lys Asp His Met
 370 375 380
 Arg Asn Ile Val Pro Ile Leu Leu Asp Gln Ser Val Ser Asn Tyr Asp
 385 390 395 400
 Lys Met Arg Ile Ile Leu Leu Tyr Thr Leu Ser Lys Asn Gly Ile Ser
 405 410 415
 Glu Glu Asn Leu Asn Lys Leu Val Gln His Ala Gln Ile Gln Pro His
 420 425 430
 Glu Lys Gln Ala Ile Val Asn Leu Gly Asn Leu Gly Leu Asn Val Val
 435 440 445
 Val Asp Gly Thr Arg Ile Lys Lys Pro Tyr Val Pro Pro Arg Lys Glu
 450 455 460
 Arg Ile Thr Glu Gln Thr Tyr Gln Met Ser Arg Trp Thr Pro Val Ile
 465 470 475 480
 Lys Asp Leu Met Glu Asp Cys Ile Asp Asp Lys Leu Asp Leu Lys His
 485 490 495
 Phe Pro Phe Leu Ala Gly Arg Ala Ala Ser Ser Gly Tyr His Ala Pro
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 Ala Ser Val Arg Tyr Gly His Trp His Lys Asp Lys Gly Gln Gln Thr
 515 520 525
 Val Lys Asn Val Pro Arg Ile Ile Val Phe Ile Ile Gly Gly Met Ser
 530 535 540
 Phe Ser Glu Ile Arg Cys Ala Tyr Glu Val Thr Asn Ala Val Lys Asn
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<210> 117
 <211> 50
 <212> ADN
 <213> Secuencia artificial

<220>
 <223> BSB_Rop-1-Para Cebador de Oligonucleótido PCR

Spanish Seq Listing_REVISADO

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<210> 118
<211> 45
<212> ADN
<213> Secuencia artificial

<220>
<223> BSB_Rop-1-Rev Cebador de Oligonucleótido PCR

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<210> 119
<211> 499
<212> ADN
<213> Euschistus heros

<400> 119
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caaacttacc agatgtctcg ttggactcct gtcataaagg atcttatgga ggactgtata 420
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<210> 120
<211> 2550
<212> ADN
<213> Meligethes aeneus

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gatataaaca agaaaagaga acccttaaac accatggaag caatatatct aataacacca 360
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Spanish Seq Listing_REVISADO

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Spanish Seq Listing_REVISADO

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cttttcaata gttatacatg tatttatattc 2550
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<210> 121
<211> 586
<212> PRT
<213> Meligethes aeneus
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<400> 121
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20 25 30
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Val Leu Val Val Asp Gln Leu Ala Met Arg Met Val Ser Ala Cys Cys
35 40 45
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```
Lys Met His Asp Ile Ser Ala Glu Gly Ile Thr Leu Val Glu Asp Ile
50 55 60
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```
Asn Lys Lys Arg Glu Pro Leu Asn Thr Met Glu Ala Ile Tyr Leu Ile
65 70 75 80
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```
Thr Pro Ser Glu Lys Ser Val His Ser Leu Met Asn Asp Phe Glu Ser
85 90 95
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Pro Arg Leu Met Tyr Lys Gly Ala His Val Phe Phe Thr Glu Val Cys
100 105 110
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```
Pro Glu Glu Leu Phe Asn Glu Leu Cys Lys Ser Cys Ala Ala Arg Lys
115 120 125
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Ile Lys Thr Leu Lys Glu Ile Asn Ile Ala Phe Leu Pro Tyr Glu Ser
130 135 140
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```
Gln Val Phe Ser Leu Asp Cys Pro Glu Thr Phe Gln Cys Ser Tyr Asp
145 150 155 160
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Pro Ala Met Glu Ala Ala Arg Asn Ala Asn Met Glu Arg Met Ala Glu
165 170 175
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Gln Ile Ala Thr Leu Cys Ala Thr Leu Gly Glu Tyr Pro Ser Val Arg
180 185 190
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Spanish Seq Listing_REVISADO

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

Gln Lys Leu Asp Ala Tyr Lys Ala Asp Glu Pro Thr Met Gly Glu Gly
210 215 220

Pro Glu Lys Ala Arg Ser Gln Leu Leu Ile Leu Asp Arg Gly Phe Asp
225 230 235 240

Cys Val Ser Pro Met Leu His Glu Leu Thr Phe Gln Ala Met Ala Tyr
245 250 255

Asp Leu Leu Pro Ile Glu Asn Asp Val Tyr Lys Tyr Glu Ala Ser Ala
260 265 270

Gly Val Phe Lys Glu Val Leu Leu Asp Glu Asn Asp Glu Leu Trp Val
275 280 285

Glu Leu Arg His Gln His Ile Ala Val Val Ser Gln Ser Val Thr Lys
290 295 300

Asn Leu Lys Lys Phe Thr Asp Ser Lys Arg Met Thr Gln Ser Asp Lys
305 310 315 320

Gln Ser Met Lys Asp Leu Ser Gln Met Ile Lys Lys Met Pro Gln Tyr
325 330 335

Gln Lys Glu Leu Ser Lys Tyr Ala Thr His Leu His Leu Ala Glu Asp
340 345 350

Cys Met Lys Ser Tyr Gln Gly Tyr Val Asp Lys Leu Cys Lys Val Glu
355 360 365

Gln Asp Leu Ala Met Gly Thr Asp Ala Glu Gly Glu Lys Ile Lys Asp
370 375 380

His Met Arg Asn Ile Val Pro Ile Leu Leu Asp Pro Lys Ile Thr Asn
385 390 395 400

Glu Tyr Asp Lys Met Arg Ile Ile Ala Leu Tyr Ala Met Ile Lys Asn
405 410 415

Gly Ile Thr Asp Glu Asn Leu Ser Lys Leu Ala Thr His Ala Gln Ile
420 425 430

Lys Asp Lys Gln Thr Ile Ala Asn Leu Gln Phe Leu Gly Val Asn Val
435 440 445

Spanish Seq Listing_REVISADO

Ile Asn Asp Gly Gly Asn Arg Lys Lys Pro Tyr Ser Val Pro Arg Lys
450 455 460

Glu Arg Ile Thr Glu Gln Thr Tyr Gln Met Ser Arg Trp Thr Pro Val
465 470 475 480

Ile Lys Asp Ile Met Glu Asp Ala Ile Glu Asp Lys Leu Asp Gln Lys
485 490 495

His Phe Pro Phe Leu Ala Gly Arg Ala Gln Thr Ser Ala Tyr His Ala
500 505 510

Pro Thr Ser Ala Arg Tyr Gly His Trp His Lys Asp Lys Ala Gln Gln
515 520 525

Thr Val Lys Asn Val Pro Arg Ile Ile Val Phe Ile Val Gly Gly Met
530 535 540

Ser Phe Ser Glu Ile Arg Cys Ala Tyr Glu Val Thr Asn Ala Gln Lys
545 550 555 560

Asn Trp Glu Val Ile Ile Gly Ser Ser Asn Ile Leu Thr Pro Gln Ser
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Phe Leu Lys Asp Leu Asn Thr Leu Thr Val
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<210> 122
<211> 2550
<212> ADN
<213> Meligethes aeneus

<400> 122
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gaatcacagg tgttttcttt ggactgccca gaaacattcc aatgcagtta tgatcctgct 600

Spanish Seq Listing_REVISADO

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Spanish Seq Listing_REVISADO

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2550

<210> 123
<211> 586
<212> PRT
<213> Meligethes aeneus

<400> 123

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Lys His Lys Pro Lys Lys Asn Gly Pro Ala His Gly Val Glu Trp Arg
20 25 30

Val Leu Val Val Asp Gln Leu Ala Met Arg Met Val Ser Ala Cys Cys
35 40 45

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

Asn Lys Lys Arg Glu Pro Leu Asn Thr Met Glu Ala Ile Tyr Leu Ile
65 70 75 80

Thr Pro Ser Glu Lys Ser Val His Ser Leu Met Asn Asp Phe Glu Ser
85 90 95

Pro Arg Leu Met Tyr Lys Gly Ala His Val Phe Phe Thr Glu Ala Cys
100 105 110

Pro Asp Asn Leu Phe Gln Lys Leu Ser Gln His Pro Val Val Lys Tyr
115 120 125

Ile Lys Thr Cys Lys Glu Ile Asn Ile Ala Phe Ile Pro Asn Glu Ser
130 135 140

Gln Val Phe Ser Leu Asp Cys Pro Glu Thr Phe Gln Cys Ser Tyr Asp
145 150 155 160

Pro Ala Met Glu Ala Ala Arg Asn Ala Asn Met Glu Arg Met Ala Glu
165 170 175

Gln Ile Ala Thr Leu Cys Ala Thr Leu Gly Glu Tyr Pro Ser Val Arg
180 185 190

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

Spanish Seq Listing_REVISADO

Gln Lys Leu Asp Ala Tyr Lys Ala Asp Glu Pro Thr Met Gly Glu Gly
210 215 220

Pro Glu Lys Ala Arg Ser Gln Leu Leu Ile Leu Asp Arg Gly Phe Asp
225 230 235 240

Cys Val Ser Pro Met Leu His Glu Leu Thr Phe Gln Ala Met Ala Tyr
245 250 255

Asp Leu Leu Pro Ile Glu Asn Asp Val Tyr Lys Tyr Glu Ala Ser Ala
260 265 270

Gly Val Phe Lys Glu Val Leu Leu Asp Glu Asn Asp Glu Leu Trp Val
275 280 285

Glu Leu Arg His Gln His Ile Ala Val Val Ser Gln Ser Val Thr Lys
290 295 300

Asn Leu Lys Lys Phe Thr Asp Ser Lys Arg Met Thr Gln Ser Asp Lys
305 310 315 320

Gln Ser Met Lys Asp Leu Ser Gln Met Ile Lys Lys Met Pro Gln Tyr
325 330 335

Gln Lys Glu Leu Ser Lys Tyr Ala Thr His Leu His Leu Ala Glu Asp
340 345 350

Cys Met Lys Ser Tyr Gln Gly Tyr Val Asp Lys Leu Cys Lys Val Glu
355 360 365

Gln Asp Leu Ala Met Gly Thr Asp Ala Glu Gly Glu Lys Ile Lys Asp
370 375 380

His Met Arg Asn Ile Val Pro Ile Leu Leu Asp Pro Lys Ile Thr Asn
385 390 395 400

Glu Tyr Asp Lys Met Arg Ile Ile Ala Leu Tyr Ala Met Ile Lys Asn
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Gly Ile Thr Asp Glu Asn Leu Ser Lys Leu Ala Thr His Ala Gln Ile
420 425 430

Lys Asp Lys Gln Thr Ile Ala Asn Leu Gln Phe Leu Gly Val Asn Val
435 440 445

Ile Asn Asp Gly Gly Asn Arg Lys Lys Pro Tyr Ser Val Pro Arg Lys
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Spanish Seq Listing_REVISADO

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465 470 475 480

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His Phe Pro Phe Leu Ala Gly Arg Ala Gln Thr Ser Ala Tyr His Ala
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Pro Thr Ser Ala Arg Tyr Gly His Trp His Lys Asp Lys Ala Gln Gln
515 520 525

Thr Val Lys Asn Val Pro Arg Ile Ile Val Phe Ile Val Gly Gly Met
530 535 540

Ser Phe Ser Glu Ile Arg Cys Ala Tyr Glu Val Thr Asn Ala Gln Lys
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Asn Trp Glu Val Ile Ile Gly Ser Ser Asn Ile Leu Thr Pro Gln Ser
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Phe Leu Lys Asp Leu Asn Thr Leu Thr Val
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<210> 124
<211> 3746
<212> ADN
<213> Meligethes aeneus

<400> 124
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Spanish Seq Listing_REVISADO

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Spanish Seq Listing_REVISADO

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<210> 125
<211> 569
<212> PRT
<213> Meligethes aeneus

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<400> 125

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Val Asp Ile Val Val Glu Gly Val Asp Ile Val Val Glu Gly Val Asp
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Ile Val Val Asp Gln Leu Ala Met Arg Met Val Ser Ala Cys Cys Lys
          20          25          30

```

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

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Lys Lys Arg Glu Pro Leu Asn Thr Met Glu Ala Ile Tyr Leu Ile Thr
          50          55          60

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Spanish Seq Listing_REVISADO

Pro Ser Glu Lys Ser Val His Ser Leu Met Asn Asp Phe Glu Ser Pro
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 Arg Leu Met Tyr Lys Gly Ala His Val Phe Phe Thr Glu Val Cys Pro
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 100 105 110
 Lys Thr Leu Lys Glu Ile Asn Ile Ala Phe Leu Pro Tyr Glu Ser Gln
 115 120 125
 Val Phe Ser Leu Asp Cys Pro Glu Thr Phe Gln Cys Ser Tyr Asp Pro
 130 135 140
 Ala Met Glu Ala Ala Arg Asn Ala Asn Met Glu Arg Met Ala Glu Gln
 145 150 155 160
 Ile Ala Thr Leu Cys Ala Thr Leu Gly Glu Tyr Pro Ser Val Arg Tyr
 165 170 175
 Arg Ser Asp Trp Glu Arg Asn Val Glu Leu Ala Gln Met Ile Gln Gln
 180 185 190
 Lys Leu Asp Ala Tyr Lys Ala Asp Glu Pro Thr Met Gly Glu Gly Pro
 195 200 205
 Glu Lys Ala Arg Ser Gln Leu Leu Ile Leu Asp Arg Gly Phe Asp Cys
 210 215 220
 Val Ser Pro Met Leu His Glu Leu Thr Phe Gln Ala Met Ala Tyr Asp
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 245 250 255
 Val Phe Lys Glu Val Leu Leu Asp Glu Asn Asp Glu Leu Trp Val Glu
 260 265 270
 Leu Arg His Gln His Ile Ala Val Val Ser Gln Ser Val Thr Lys Asn
 275 280 285
 Leu Lys Lys Phe Thr Asp Ser Lys Arg Met Thr Gln Ser Asp Lys Gln
 290 295 300
 Ser Met Lys Asp Leu Ser Gln Met Ile Lys Lys Met Pro Gln Tyr Gln
 305 310 315 320

Spanish Seq Listing_REVISADO

Lys Glu Leu Ser Lys Tyr Ala Thr His Leu His Leu Ala Glu Asp Cys
 325 330 335
 Met Lys Ser Tyr Gln Gly Tyr Val Asp Lys Leu Cys Lys Val Glu Gln
 340 345 350
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 355 360 365
 Met Arg Asn Ile Val Pro Ile Leu Leu Asp Pro Lys Ile Thr Asn Glu
 370 375 380
 Tyr Asp Lys Met Arg Ile Ile Ala Leu Tyr Ala Met Ile Lys Asn Gly
 385 390 395 400
 Ile Thr Asp Glu Asn Leu Ser Lys Leu Ala Thr His Ala Gln Ile Lys
 405 410 415
 Asp Lys Gln Thr Ile Ala Asn Leu Gln Phe Leu Gly Val Asn Val Ile
 420 425 430
 Asn Asp Gly Gly Asn Arg Lys Lys Pro Tyr Ser Val Pro Arg Lys Glu
 435 440 445
 Arg Ile Thr Glu Gln Thr Tyr Gln Met Ser Arg Trp Thr Pro Val Ile
 450 455 460
 Lys Asp Ile Met Glu Asp Ala Ile Glu Asp Lys Leu Asp Gln Lys His
 465 470 475 480
 Phe Pro Phe Leu Ala Gly Arg Ala Gln Thr Ser Ala Tyr His Ala Pro
 485 490 495
 Thr Ser Ala Arg Tyr Gly His Trp His Lys Asp Lys Ala Gln Gln Thr
 500 505 510
 Val Lys Asn Val Pro Arg Ile Ile Val Phe Ile Val Gly Gly Met Ser
 515 520 525
 Phe Ser Glu Ile Arg Cys Ala Tyr Glu Val Thr Asn Ala Gln Lys Asn
 530 535 540
 Trp Glu Val Ile Ile Gly Ser Ser Asn Ile Leu Thr Pro Gln Ser Phe
 545 550 555 560
 Leu Lys Asp Leu Asn Thr Leu Thr Val
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Spanish Seq Listing_REVISADO

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 <212> ADN
 <213> Meligethes aeneus

<400> 126
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Spanish Seq Listing_REVISADO

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Spanish Seq Listing_REVISADO

<210> 127
 <211> 569
 <212> PRT
 <213> Meliethes aeneus

<400> 127

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 20 25 30

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

Lys Lys Arg Glu Pro Leu Asn Thr Met Glu Ala Ile Tyr Leu Ile Thr
 50 55 60

Pro Ser Glu Lys Ser Val His Ser Leu Met Asn Asp Phe Glu Ser Pro
 65 70 75 80

Arg Leu Met Tyr Lys Gly Ala His Val Phe Phe Thr Glu Ala Cys Pro
 85 90 95

Asp Asn Leu Phe Gln Lys Leu Ser Gln His Pro Val Val Lys Tyr Ile
 100 105 110

Lys Thr Cys Lys Glu Ile Asn Ile Ala Phe Ile Pro Asn Glu Ser Gln
 115 120 125

Val Phe Ser Leu Asp Cys Pro Glu Thr Phe Gln Cys Ser Tyr Asp Pro
 130 135 140

Ala Met Glu Ala Ala Arg Asn Ala Asn Met Glu Arg Met Ala Glu Gln
 145 150 155 160

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

Arg Ser Asp Trp Glu Arg Asn Val Glu Leu Ala Gln Met Ile Gln Gln
 180 185 190

Lys Leu Asp Ala Tyr Lys Ala Asp Glu Pro Thr Met Gly Glu Gly Pro
 195 200 205

Glu Lys Ala Arg Ser Gln Leu Leu Ile Leu Asp Arg Gly Phe Asp Cys
 210 215 220

Spanish Seq Listing_REVISADO

Val 225	Ser	Pro	Met	Leu	His 230	Glu	Leu	Thr	Phe	Gln 235	Ala	Met	Ala	Tyr	Asp 240
Leu	Leu	Pro	Ile	Glu 245	Asn	Asp	Val	Tyr	Lys 250	Tyr	Glu	Ala	Ser	Ala 255	Gly
Val	Phe	Lys	Glu 260	Val	Leu	Leu	Asp	Glu 265	Asn	Asp	Glu	Leu	Trp 270	Val	Glu
Leu	Arg	His 275	Gln	His	Ile	Ala	Val 280	Val	Ser	Gln	Ser	Val 285	Thr	Lys	Asn
Leu	Lys 290	Lys	Phe	Thr	Asp	Ser 295	Lys	Arg	Met	Thr	Gln 300	Ser	Asp	Lys	Gln
Ser 305	Met	Lys	Asp	Leu	Ser 310	Gln	Met	Ile	Lys	Lys 315	Met	Pro	Gln	Tyr	Gln 320
Lys	Glu	Leu	Ser	Lys 325	Tyr	Ala	Thr	His	Leu 330	His	Leu	Ala	Glu	Asp 335	Cys
Met	Lys	Ser	Tyr 340	Gln	Gly	Tyr	Val	Asp 345	Lys	Leu	Cys	Lys	Val 350	Glu	Gln
Asp	Leu	Ala 355	Met	Gly	Thr	Asp	Ala 360	Glu	Gly	Glu	Lys	Ile 365	Lys	Asp	His
Met	Arg 370	Asn	Ile	Val	Pro	Ile 375	Leu	Leu	Asp	Pro	Lys 380	Ile	Thr	Asn	Glu
Tyr 385	Asp	Lys	Met	Arg	Ile 390	Ile	Ala	Leu	Tyr	Ala 395	Met	Ile	Lys	Asn	Gly 400
Ile	Thr	Asp	Glu	Asn 405	Leu	Ser	Lys	Leu	Ala 410	Thr	His	Ala	Gln	Ile 415	Lys
Asp	Lys	Gln	Thr 420	Ile	Ala	Asn	Leu	Gln 425	Phe	Leu	Gly	Val	Asn 430	Val	Ile
Asn	Asp	Gly 435	Gly	Asn	Arg	Lys	Lys 440	Pro	Tyr	Ser	Val	Pro 445	Arg	Lys	Glu
Arg	Ile 450	Thr	Glu	Gln	Thr	Tyr 455	Gln	Met	Ser	Arg	Trp 460	Thr	Pro	Val	Ile
Lys 465	Asp	Ile	Met	Glu	Asp 470	Ala	Ile	Glu	Asp	Lys 475	Leu	Asp	Gln	Lys	His 480

Spanish Seq Listing_REVISADO

Phe Pro Phe Leu Ala Gly Arg Ala Gln Thr Ser Ala Tyr His Ala Pro
485 490 495

Thr Ser Ala Arg Tyr Gly His Trp His Lys Asp Lys Ala Gln Gln Thr
500 505 510

Val Lys Asn Val Pro Arg Ile Ile Val Phe Ile Val Gly Gly Met Ser
515 520 525

Phe Ser Glu Ile Arg Cys Ala Tyr Glu Val Thr Asn Ala Gln Lys Asn
530 535 540

Trp Glu Val Ile Ile Gly Ser Ser Asn Ile Leu Thr Pro Gln Ser Phe
545 550 555 560

Leu Lys Asp Leu Asn Thr Leu Thr Val
565

<210> 128
<211> 401
<212> ADN
<213> Meligethes aeneus

<400> 128
ggactgcccc gaaacattcc aatgcagtta tgatcctgct atggaagcag ccagaaatgc 60
aaacatggag agaatggcag aacaaattgc tacattgtgt gcaactctgg gagaataccc 120
ttcagtaaga taccgaagtg attgggaacg caacgtggaa ctagcgcaga tgattcagca 180
aaagttggat gcctataaag cggatgagcc cacaatggga gaggggcctg aaaaagcgag 240
atcgcaactt ttgattcttg accgcggtt cgactgcgta tcacccatgc tgcacgaact 300
tacattccag gcaatggcct acgatctgct gccaatcgaa aacgacgtgt acaaatatga 360
agcttcagcg ggagtattta aggaagtgtt gctcgacgaa a 401

<210> 129
<211> 45
<212> ADN
<213> Secuencia artificial

<220>
<223> Cebador delantero para amplificar Rop reg1

<400> 129
taatacgact cactataggg agatttcgtc gagcaaacact tcctt 45

<210> 130
<211> 44
<212> ADN
<213> Secuencia artificial

Spanish Seq Listing_REVISADO

<220>
 <223> Cebador inverso para amplificar Rop reg 1

<400> 130
 taatacagact cactataggg agaggactgc ccagaaacat tcca 44

<210> 131
 <211> 2487
 <212> ADN
 <213> Meligethes aeneus

<400> 131
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 tgggagaata cccttcagta agataccgaa gtgattggga acgcaacgtg gaactagcgc 180
 agatgattca gcaaaagttg gatgcctata aagcggatga gccacacatg ggagaggggc 240
 ctgaaaaagc gagatcgcaa cttttgattc ttgaccgcgg cttcgactgc gtatcaccca 300
 tgctgcacga acttacattc caggcaatgg cctacgattt gctgccaatc gaaaacgacg 360
 tgtacaaata tgaagcttca gcgggagtat ttaaggaagt gttgctcgac gaaaacgacg 420
 agttatgggt agaattacga catcagcata tcgctgtagt gtcgcagagt gtgacgaaaa 480
 acttgaagaa atttaccgat tcaaaacgaa tgacccaaag tgataaacia tcaatgaaag 540
 atctgtcaca aatgattaag aaaatgcccc aatatcaaaa ggagttatct aaatatgcta 600
 cacacttgca tcttgctgaa gactgcatga aatcttacca aggatatgtt gacaaattat 660
 gtaaagtga acaagaccta gcaatgggta cagatgcaga aggagaaaaa attaaagacc 720
 atatgcgtaa catcgtaccg attttacttg atccaaaaat aacaaacgaa tatgacaaaa 780
 tgagaataat tgctctatat gcaatgatta aaaatggcat aaccgacgaa aatttatcaa 840
 aacttgctac tcatgccccaa ataaaagaca aacaaactat tgctaatttg caattcttgg 900
 gagttaatgt tatcaatgat ggtgggaacc ggaaaaaacc gtattcggtg ccaagaaaag 960
 agcgtattac tgaacaaacg tatcaaatgt ctagatggac gcctgtaatt aaggatatta 1020
 tggaagacgc tattgaagat aaattagatc aaaaacactt tccattttta gctggccgag 1080
 cgcaaaccag tgcttaccac gcccacaaca gtgctcgata tggtcatttg cataaagaca 1140
 agggccagca gacagtgaat aatgtgcca gaataattgt cttcattgtt ggaggcatga 1200
 gtttttcaga aatcagatgt gcgtatgagg taacaaacgc ccaaaaaaat tgggaggtca 1260
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 cagtctagga ttcaggaaaa aaagtactt ttaatatacc tgataattaa aaatgctttc 1380
 gtcattgtga tttgattgct taagataaat ggtagtattt actggaattt ttaattgtag 1440
 ttgacatttt gagatatttg tacctactaa cgtaaaaaat gtgcagacct aagcaagata 1500

Spanish Seq Listing_REVISADO

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ttacaatata atcttggatg ctagtctatc ttccctttct aaaaataact tttattttta 1560
ataattataa ttctggattg aaaaataaaa tgtatgtaaa gtacttaagg gaactgatta 1620
ttttttttat tttttaagtt gagcagtctc acacaaacaa tacattactc gtgcgccagc 1680
gcacttcata gacttctaaa aaaaacattg ggtataaaaa actgttctca atttactaac 1740
ggaacattta aattttatttt aagcccctaa gctttaatta ttaaaaaattg tataaatggt 1800
gtagaaata aagtaagttt tcaaaggcgt tatataaatg tttagcgtgt tatggcggtt 1860
aacaccataa ttcaaaaata tcaaatattt aaagttattt atcacgtttt tattgttatt 1920
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atagttatac atgtattata ttctacaata aatttagcaa aattaaaatt gtcaatttta 2040
ttaagatata gtatagtatt ttgtcttttt aagacaaaat gtaacataat taaattttat 2100
ccgaattcat aaaaatattg ttgttccttt catgacaaaag tggccaagtc cagttttatt 2160
taaaaatgta atacaaaata tagctgcttt taacacagaa tactgtacat aaaatctacc 2220
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taactattgt aatgctataa tgggtacc 2487

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<210> 132
<211> 441
<212> PRT
<213> Meligethes aeneus

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<400> 132

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Val Phe Ser Leu Asp Cys Pro Glu Thr Phe Gln Cys Ser Tyr Asp Pro
1          5          10          15

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Ala Met Glu Ala Ala Arg Asn Ala Asn Met Glu Arg Met Ala Glu Gln
20          25          30

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Ile Ala Thr Leu Cys Ala Thr Leu Gly Glu Tyr Pro Ser Val Arg Tyr
35          40          45

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Arg Ser Asp Trp Glu Arg Asn Val Glu Leu Ala Gln Met Ile Gln Gln
50          55          60

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Lys Leu Asp Ala Tyr Lys Ala Asp Glu Pro Thr Met Gly Glu Gly Pro
65          70          75          80

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Spanish Seq Listing_REVISADO

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

Val Ser Pro Met Leu His Glu Leu Thr Phe Gln Ala Met Ala Tyr Asp
100 105 110

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

Val Phe Lys Glu Val Leu Leu Asp Glu Asn Asp Glu Leu Trp Val Glu
130 135 140

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

Leu Lys Lys Phe Thr Asp Ser Lys Arg Met Thr Gln Ser Asp Lys Gln
165 170 175

Ser Met Lys Asp Leu Ser Gln Met Ile Lys Lys Met Pro Gln Tyr Gln
180 185 190

Lys Glu Leu Ser Lys Tyr Ala Thr His Leu His Leu Ala Glu Asp Cys
195 200 205

Met Lys Ser Tyr Gln Gly Tyr Val Asp Lys Leu Cys Lys Val Glu Gln
210 215 220

Asp Leu Ala Met Gly Thr Asp Ala Glu Gly Glu Lys Ile Lys Asp His
225 230 235 240

Met Arg Asn Ile Val Pro Ile Leu Leu Asp Pro Lys Ile Thr Asn Glu
245 250 255

Tyr Asp Lys Met Arg Ile Ile Ala Leu Tyr Ala Met Ile Lys Asn Gly
260 265 270

Ile Thr Asp Glu Asn Leu Ser Lys Leu Ala Thr His Ala Gln Ile Lys
275 280 285

Asp Lys Gln Thr Ile Ala Asn Leu Gln Phe Leu Gly Val Asn Val Ile
290 295 300

Asn Asp Gly Gly Asn Arg Lys Lys Pro Tyr Ser Val Pro Arg Lys Glu
305 310 315 320

Arg Ile Thr Glu Gln Thr Tyr Gln Met Ser Arg Trp Thr Pro Val Ile
325 330 335

Spanish Seq Listing_REVISADO

Lys Asp Ile Met Glu Asp Ala Ile Glu Asp Lys Leu Asp Gln Lys His
340 345 350

Phe Pro Phe Leu Ala Gly Arg Ala Gln Thr Ser Ala Tyr His Ala Pro
355 360 365

Thr Ser Ala Arg Tyr Gly His Trp His Lys Asp Lys Ala Gln Gln Thr
370 375 380

Val Lys Asn Val Pro Arg Ile Ile Val Phe Ile Val Gly Gly Met Ser
385 390 395 400

Phe Ser Glu Ile Arg Cys Ala Tyr Glu Val Thr Asn Ala Gln Lys Asn
405 410 415

Trp Glu Val Ile Ile Gly Ser Ser Asn Ile Leu Thr Pro Gln Ser Phe
420 425 430

Leu Lys Asp Leu Asn Thr Leu Thr Val
435 440

<210> 133
<211> 2635
<212> ADN
<213> Meligethes aeneus

<400> 133
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gcattcctat ttgacattta atgataattg tgcagtgggt gctattaaaa attatattgt 120
ttaaataagg agttaaaaata ttataaaaata ttgttagagt gttcatcaca aattatatgc 180
aatatggcgt taaaaggaca agttgggcaa aaaattatga acgaggtaat aaagcataaa 240
ccaaagaaaa atggacccgc tcatggagtg gaatggagag ttttggttgt ggatcaactt 300
gccatgagaa tggtttcagc ctgttgtaaa atgcacgata tttcagctga gggcatcaca 360
ttggttgaag atataaaca gaaaagagaa cccttaaaca ccatggaagc aatatatcta 420
ataacaccat ctgaaaaatc tgttcaactca ctgatgaacg attttgaatc gccaagactt 480
atgtacaaaag gggcacatgt attttttact gaagcatgcc ctgataattt atttcaaaaa 540
ttgtctcaac atccagtagt gaaatatatt aaaacttgta aagaaatcaa cattgcattt 600
ataccaaatg aatcacagggt gttttctttg gactgcccag aaacattcca atgcagttat 660
gatcctgcta tggaagcagc cagaaatgca aacatggaga gaatggcaga acaaattgct 720
acattgtgtg caactctggg agaataccct tcagtaagat accgaagtga ttgggaacgc 780
aacgtggaac tagcgcagat gattcagcaa aagttggatg cctataaagc ggatgagccc 840

Spanish Seq Listing_REVISADO

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ccaatcgaac acgacgtgta caaatatgaa gcttcagcgg gagtatttaa ggaagtgttg	1020
ctcgacgaaa acgacgagtt atgggtagaa ttacgacatc agcatatcgc tgtagtgtcg	1080
cagagtgtga cgaaaaactt gaagaaattt accgattcaa aacgaatgac ccaaagtgat	1140
aaacaatcaa tgaaagatct gtcacaaatg attaagaaaa tgccccaata tcaaaaggag	1200
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tatgttgaca aattatgtaa agttgaacaa gacctagcaa tgggtacaga tgcagaagga	1320
gaaaaaatta aagaccatat gcgtaacatc gtaccgattt tacttgatcc aaaaataaca	1380
aacgaatatg acaaaatgag aataattgct ctatatgcaa tgattaaaaa tggcataacc	1440
gacgaaaatt tatcaaaact tgctactcat gcccaaataa aagacaaaca aactattgct	1500
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tcggtgccaa gaaaagagcg tattactgaa caaacgtatc aaatgtctag atggacgcct	1620
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aaaaattggg aggtcattat tggatcctcc aacattttga ctccccaaag ttttcttaag	1920
gatttaaaca ctcttacagt ctaggattca ggaaaaaaag ttacttttaa tatacctgat	1980
aattaaaaat gctttcgtca tgtgaatttg attgcttaag ataaatgggt agttttactg	2040
gaatttttaa ttgtagttga cattttgaga tatttgtacc tactaacgtt aaaaatgtgc	2100
agacctaacg aagatattac aatataatct tggatgctag tctatcttcc ctttctaaaa	2160
ataactttta tttttaataa ttataattct ggattgaaaa ataaaatgta tgtaaagtac	2220
ttaaggaac tgattatttt ttttattttt taagttgagc agtctcacac aaacaataca	2280
ttactcgtgc gccagcgcac ttcatagact tctaaaaaaa acattgggta taaaaaactg	2340
ttctcaattt actaacggaa catttaaatt tattttaagc ccctaagctt taattattaa	2400
aaattgtata aatgttggtt gaaataaagt aagttttcaa aggcgttata taaatgttta	2460
gcgtgttatg gcgtttaaca ccataattca aaaatatcaa atatttaaag ttatttatca	2520
cgtttttatt gttatttctt gttataagta gttttttaga tacttaaaact tgtattgtat	2580
tcagtatttc ttttcaatag ttatacatgt attatatctt acaataaatt tagca	2635

<210> 134
<211> 586

Spanish Seq Listing_REVISADO

<212> PRT

<213> Meligethes aeneus

<400> 134

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

Lys His Lys Pro Lys Lys Asn Gly Pro Ala His Gly Val Glu Trp Arg
20 25 30

Val Leu Val Val Asp Gln Leu Ala Met Arg Met Val Ser Ala Cys Cys
35 40 45

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

Asn Lys Lys Arg Glu Pro Leu Asn Thr Met Glu Ala Ile Tyr Leu Ile
65 70 75 80

Thr Pro Ser Glu Lys Ser Val His Ser Leu Met Asn Asp Phe Glu Ser
85 90 95

Pro Arg Leu Met Tyr Lys Gly Ala His Val Phe Phe Thr Glu Ala Cys
100 105 110

Pro Asp Asn Leu Phe Gln Lys Leu Ser Gln His Pro Val Val Lys Tyr
115 120 125

Ile Lys Thr Cys Lys Glu Ile Asn Ile Ala Phe Ile Pro Asn Glu Ser
130 135 140

Gln Val Phe Ser Leu Asp Cys Pro Glu Thr Phe Gln Cys Ser Tyr Asp
145 150 155 160

Pro Ala Met Glu Ala Ala Arg Asn Ala Asn Met Glu Arg Met Ala Glu
165 170 175

Gln Ile Ala Thr Leu Cys Ala Thr Leu Gly Glu Tyr Pro Ser Val Arg
180 185 190

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

Gln Lys Leu Asp Ala Tyr Lys Ala Asp Glu Pro Thr Met Gly Glu Gly
210 215 220

Pro Glu Lys Ala Arg Ser Gln Leu Leu Ile Leu Asp Arg Gly Phe Asp
225 230 235 240

Spanish Seq Listing_REVISADO

Cys Val Ser Pro Met Leu His Glu Leu Thr Phe Gln Ala Met Ala Tyr
 245 250 255
 Asp Leu Leu Pro Ile Glu Asn Asp Val Tyr Lys Tyr Glu Ala Ser Ala
 260 265 270
 Gly Val Phe Lys Glu Val Leu Leu Asp Glu Asn Asp Glu Leu Trp Val
 275 280 285
 Glu Leu Arg His Gln His Ile Ala Val Val Ser Gln Ser Val Thr Lys
 290 295 300
 Asn Leu Lys Lys Phe Thr Asp Ser Lys Arg Met Thr Gln Ser Asp Lys
 305 310 315 320
 Gln Ser Met Lys Asp Leu Ser Gln Met Ile Lys Lys Met Pro Gln Tyr
 325 330 335
 Gln Lys Glu Leu Ser Lys Tyr Ala Thr His Leu His Leu Ala Glu Asp
 340 345 350
 Cys Met Lys Ser Tyr Gln Gly Tyr Val Asp Lys Leu Cys Lys Val Glu
 355 360 365
 Gln Asp Leu Ala Met Gly Thr Asp Ala Glu Gly Glu Lys Ile Lys Asp
 370 375 380
 His Met Arg Asn Ile Val Pro Ile Leu Leu Asp Pro Lys Ile Thr Asn
 385 390 395 400
 Glu Tyr Asp Lys Met Arg Ile Ile Ala Leu Tyr Ala Met Ile Lys Asn
 405 410 415
 Gly Ile Thr Asp Glu Asn Leu Ser Lys Leu Ala Thr His Ala Gln Ile
 420 425 430
 Lys Asp Lys Gln Thr Ile Ala Asn Leu Gln Phe Leu Gly Val Asn Val
 435 440 445
 Ile Asn Asp Gly Gly Asn Arg Lys Lys Pro Tyr Ser Val Pro Arg Lys
 450 455 460
 Glu Arg Ile Thr Glu Gln Thr Tyr Gln Met Ser Arg Trp Thr Pro Val
 465 470 475 480
 Ile Lys Asp Ile Met Glu Asp Ala Ile Glu Asp Lys Leu Asp Gln Lys

Spanish Seq Listing_REVISADO

485

490

495

His Phe Pro Phe Leu Ala Gly Arg Ala Gln Thr Ser Ala Tyr His Ala
500 505 510

Pro Thr Ser Ala Arg Tyr Gly His Trp His Lys Asp Lys Ala Gln Gln
515 520 525

Thr Val Lys Asn Val Pro Arg Ile Ile Val Phe Ile Val Gly Gly Met
530 535 540

Ser Phe Ser Glu Ile Arg Cys Ala Tyr Glu Val Thr Asn Ala Gln Lys
545 550 555 560

Asn Trp Glu Val Ile Ile Gly Ser Ser Asn Ile Leu Thr Pro Gln Ser
565 570 575

Phe Leu Lys Asp Leu Asn Thr Leu Thr Val
580 585