

<210> 2
 <211> 277
 <212> PRT
 <213> *Diabrotica virgifera*

<400> 2

Met Pro Tyr Ala Asn Thr Pro Ser Val Gln Ile Ser Glu Leu Thr Asp
 1 5 10 15

Glu Asn Val Lys Phe Val Val Glu Asp Thr Asp Leu Ser Leu Ala Asn
 20 25 30

Ser Leu Arg Arg Val Phe Ile Ala Glu Thr Pro Thr Leu Ala Ile Asp
 35 40 45

Trp Val Gln Phe Glu Ala Asn Ser Thr Val Leu Ala Asp Glu Phe Leu
 50 55 60

Ala His Arg Ile Gly Leu Ile Pro Leu Ile Ser Asp Glu Val Val Asp
 65 70 75 80

Arg Ile Gln Asn Thr Arg Glu Cys Ser Cys Leu Asp Phe Cys Thr Glu
 85 90 95

Cys Ser Val Glu Phe Thr Leu Asp Val Lys Cys Ser Asp Glu His Thr
 100 105 110

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

Pro Val Thr Ser Arg His Arg Asp Asp Glu Asp Asn Glu Tyr Gly Glu
 130 135 140

Thr Asn Asp Glu Ile Leu Ile Ile Lys Leu Arg Lys Gly Gln Glu Leu
 145 150 155 160

Lys Leu Arg Ala Tyr Ala Lys Lys Gly Phe Gly Lys Glu His Ala Lys
 165 170 175

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

Met Arg His Thr Leu Tyr Pro Lys Pro Asp Glu Trp Pro Lys Ser Glu
 195 200 205

His Thr Glu Leu Asp Asp Asp Gln Tyr Glu Ala Glu Tyr Asn Trp Glu
 210 215 220

Ala Lys Pro Asn Lys Phe Phe Phe Asn Val Glu Ser Ser Gly Ala Leu
 225 230 235 240

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

Leu Ser Asn Leu Gln Thr Gln Leu Ser His Glu Leu Thr Thr Asn Asp
 260 265 270

Ala Leu Val Ile Gln
 275

<210> 3
 <211> 1110
 <212> ADN
 <213> *Diabrotica virgifera*

<400> 3
 cggtgacact gttgacagtg acagttgaaa ttgaaaaccg gattagagaa gttttcttgg 60
 aaagttgttt ttttaaataa ctaacattaa atagaagtta tttgtttaag ggtttaatat 120
 gccatatgca aatcagccat cagttcatat aacagattta acagatgata attgcaaatt 180
 ttatatagaa gacactgatt taagtgttgc gaatagcatt cgccgcgtcc ttattgcaga 240
 aactcctact ctagctatag actgggtaaa attagaagct aactcaactg ttctcagtga 300
 tgaattttta gcacaccgaa ttggattgat accattagtt tccgatgaag ttgtacaaag 360
 attacaatat ctaggggact gcgtatgtct cgatttttgt caagaatgca gtgttgaatt 420
 tacttttagat gtaaaatgta cagatgatca aactcgacat gtaacaactg ccgattttta 480
 atctagtgat ccacgagtca taccagctac ttccaaacat cgtgatgatg aatcctcaga 540
 gtatggtgaa acagatgaaa ttcttattat taaactgcga aagggtcaag agcttaaagt 600
 taaagcgtat gccaaaaaag gctttggaaa agagcatgcc aaatggaatc ctacatgtgg 660
 tgttgccttt gaatatgatc ctgataacgc tatgagacat acattatttc ctaaaccaga 720
 cgaatggcct aaaagtgaat acagcgaatt agaagatgat cagtatgaag ctccatataa 780
 ctgggaatta aaacctaata aattcttcta caatgtggag gctgctggat tgttgaaacc 840
 agaaaaatatt gtcatcatgg gtgtagctat gttaaaagaa aaactgtcaa atttgcaaac 900
 acaactcagc cacgaactaa cacctgatgt tttggccatt ccaatttaag aagttaatta 960
 caatcatagg tagagttcat tcaaccacag ttatacatTT tttttataat agataagtaa 1020
 gttttacact ataggaacaa tttttgacat gttgactaaa gatcttggtc aaatagacta 1080
 gaaataaaaat tttgaatcca aaaaaaaaaa 1110

<210> 4
 <211> 276
 <212> PRT
 <213> *Diabrotica virgifera*

<400> 4

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

Ala Ile Pro Ile
275

<210> 5
<211> 483
<212> ADN
<213> *Diabrotica virgifera*

<400> 5
gaattccttg cccatcgaat tggcttgatt ccattgattt ccgatgaggt agtggacaga 60
atccaaaaca ctctgtaatg ttcattgcttg gacttttgca ccgagtgcag tgtggaattt 120
acattggatg tcaaatgcag cgacgaacat acgcgccacg ttaccacggc cgatttaaag 180
tccagtgcag cagcagtgtt accagttacg tccagacatc gcgatgcaga ggacaacgaa 240
tatggagaga cgaacgatga aattctgacg atcaaactgc gcaaagggtca agagctgaag 300
ttgcgagcat acgcgaaaaa gggtttcggc aaggaacatg ccaaattggaa tccaacggct 360
ggcgtagct ttgaatacga tccagtcaat tcgatgagac atacctgtga cccgaagccg 420
gacgaatggc cgaaaagtga gcacaccgaa cttgacgatg atcaatacga agctgaatat 480
aac 483

<210> 6
<211> 496
<212> ADN
<213> *Diabrotica virgifera*

<400> 6
gttctcagtg atgaattttt agcacaccga attggattga taccattagt ttccgatgaa 60
gttgtacaaa gattacaata tcctagggac tgcgtatgtc tcgatttttg tcaagaatgc 120
agtgttgaat ttactttaga tgtaaaatgt acagatgatc aaactcgaca tgtaacaact 180
gccgatttta aatctagtga tccacgagtc ataccagcta cttccaaaca tcgtgatgat 240
gaatcctcag agtatggtga aacagatgaa attcttatta ttaaactgag aaaggggtcaa 300
gagcttaaag ttaaagcgta tgccaaaaaa ggctttggaa aagagcatgc caaatggaat 360
cctacatgtg gtgttgcctt tgaatatgat cctgataacg ctatgagaca tacattattt 420
cctaaaccag acgaatggcc taaaagtga tacagcgaat tagaagatga tcagtatgaa 480
gctccatata actggg 496

<210> 7
<211> 132
<212> ADN
<213> *Diabrotica virgifera*

<400> 7
cttttagatgt aaaatgtaca gatgatcaaa ctgcacatgt aacaactgcc gattttaaat 60
ctagtgatcc acgagtcata ccagctactt ccaaaccatcg tgatgatgaa tcctcagagt 120
atggtgaaac ag 132

<210> 8
 <211> 125
 <212> ADN
 <213> Diabrotica virgifera

<400> 8
 gcgtatgcc aaaaaggctt tggaaaagag catgccaaat ggaatcctac atgtggtgtt 60
 gcctttgaat atgatcctga taacgctatg agacatacat tatttcctaa accagacgaa 120
 tggcc 125

<210> 9
 <211> 24
 <212> ADN
 <213> Secuencia artificial

<220>
 <223> Oligonucleótido promotor sintetizado

<400> 9
 ttaatacgac tcactatagg gaga 24

<210> 10
 <211> 503
 <212> ADN
 <213> Secuencia artificial

<220>
 <223> Región codificante parcial sintetizada

<400> 10
 caccatgggc tccagcggcg cctgctgtt ccacggcaag atcccctacg tggaggagat 60
 ggagggcaat gtggatggc acaccttcag catccgcggc aagggtacg gcgatgccag 120
 cgtgggcaag gtggatgcc agttcatctg caccaccggc gatgtgcccg tgccctggag 180
 caccctggtg accaccctga cctacggcgc ccagtgttc gccaaagtacg gccccgagct 240
 gaaggatttc tacaagagct gcatgcccga tggctacgtg caggagcgca ccatcacctt 300
 cgagggcgat ggcaatttca agaccgcgc cgaggtgacc ttcgagaatg gcagcgtgta 360
 caatcgctg aagctgaatg gccagggtt caagaaggat ggccacgtgc tgggcaagaa 420
 tctggagtgc aatttcaccc cccactgcct gtacatctgg ggcgatcagg ccaatcacgg 480
 cctgaagagc gccttcaaga tct 503

<210> 11
 <211> 46
 <212> ADN
 <213> Secuencia artificial

<220>
 <223> Oligonucleótido cebador sintetizado

<400> 11
 ttaatacgac tcactatagg gagagaattc cttgcccatc gaattg 46

<210> 12

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

 <220>
 <223> Oligonucleótido cebador sintetizado

 <400> 12
 ttaatacgac tcactatagg gagagttata ttcagcttcg tattgatc 48

 <210> 13
 <211> 49
 <212> ADN
 <213> Secuencia artificial

 <220>
 <223> Oligonucleótido cebador sintetizado

 <400> 13
 ttaatacgac tcactatagg gagagttctc agtgatgaat ttttagcac 49

 <210> 14
 <211> 49
 <212> ADN
 <213> Secuencia artificial

 <220>
 <223> Oligonucleótido cebador sintetizado

 <400> 14
 ttaatacgac tcactatagg gagacccagt tatatggagc ttcatactg 49

 <210> 15
 <211> 48
 <212> ADN
 <213> Secuencia artificial

 <220>
 <223> Oligonucleótido cebador sintetizado

 <400> 15
 ttaatacgac tcactatagg gagactttag atgtaaaatg tacagatg 48

 <210> 16
 <211> 44
 <212> ADN
 <213> Secuencia artificial

 <220>
 <223> Oligonucleótido cebador sintetizado

 <400> 16
 ttaatacgac tcactatagg gagactgttt caccatactc tgag 44

 <210> 17
 <211> 46
 <212> ADN
 <213> Secuencia artificial

 <220>
 <223> Oligonucleótido cebador sintetizado

<400> 17
ttaaatacgac tcactatagg gagagcgtat gccaaaaaag gctttg 46

<210> 18
<211> 44
<212> ADN
<213> Secuencia artificial

<220>
<223> Oligonucleótido cebador sintetizado

<400> 18
ttaaatacgac tcactatagg gagaggccat tcgtctggtt tagg 44

<210> 19
<211> 705
<212> ADN
<213> Secuencia artificial

<220>
<223> Secuencia artificial sintetizada

<400> 19
atgtcatctg gagcacttct ctttcatggg aagattcctt acgttgtgga gatggaaggg 60
aatgttgatg gccacacctt tagcatacgt gggaaaggct acggagatgc ctcatgtgga 120
aaggttgatg cacagttcat ctgcacaact ggtgatgttc ctgtgccttg gagcacactt 180
gtcaccactc tcacctatgg agcacagtgc tttgccaaagt atgggtccaga gttgaaggac 240
ttctacaagt cctgtatgcc agatggctat gtgcaagagc gcacaatcac ctttgaagga 300
gatggcaact tcaagactag ggctgaagtc acctttgaga atgggtctgt ctacaatagg 360
gtcaaactca atgggtcaagg cttcaagaaa gatgggtcatg tgttgggaaa gaacttggag 420
ttcaacttca ctccccactg cctctacatc tggggtgacc aagccaacca cggctctcaag 480
tcagccttca agatctgtca tgagattact ggcagcaaag gcgacttcat agtggctgac 540
cacaccaga tgaacactcc catttggtgga ggtccagttc atgttccaga gtatcatcac 600
atgtcttacc atgtgaaact ttccaaagat gtgacagacc acagagacaa catgtccttg 660
aaagaaactg tcagagctgt tgactgtcgc aagacctacc tttga 705

<210> 20
<211> 218
<212> ADN
<213> Diabrotica virgifera

<400> 20
tagctctgat gacagagccc atcgagtttc aagccaaaca gttgcataaa gctatcagcg 60
gattgggaac tgatgaaagt acaatmgmtg aaattttaag tgtmcacaac aacgatgaga 120
ttataagaat ttcccaggcc tatgaaggat tgtaccaacg mtcattggaa tctgatatca 180
aaggagatac ctcaaggaaca ttaaaaaaga attattag 218

<210> 21

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

<220>
 <221> característica miscelánea
 <222> (393)..(393)
 <223> n es a, c, g, o t

<220>
 <221> característica miscelánea
 <222> (394)..(394)
 <223> n es a, c, g, o t

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

<400> 21
 ttgttacaag ctggagaact tctctttgct ggaaccgaag agtcagtatt taatgctgta 60
 ttctgtcaaa gaaataaacc acaattgaat ttgatattcg acaaatatga agaaattggt 120
 gggcatccca ttgaaaaagc cattgaaaac gagttttcag gaaatgctaa acaagccatg 180
 ttacacctta tccagagcgt aagagatcaa gttgcatatt tggtaaccag gctgcatgat 240
 tcaatggcag gcgtcggtag tgacgataga actttaatca gaattgttgt ttcgagatct 300
 gaaatcgatc tagaggaaat caaacaatgc tatgaagaaa tctacagtaa aaccttggct 360
 gataggatag cggatgacac atctggcgac tannnaaaag ccttatttagc cgttgttggt 420
 taag 424

<210> 22
 <211> 397
 <212> ADN
 <213> Diabrotica virgifera

<400> 22
 agatgttggc tgcacttaga gaattacaca agttcttcca tgattgcaag gatgtactga 60
 gcagaatagt ggaaaaacag gtatccatgt ctgatgaatt gggaagggac gcaggagctg 120
 tcaatgccct tcaacgcaaa caccagaact tctccaaga cctacaaaca ctccaatcga 180
 acgtccaaca aatccaagaa gaatcagcta aacttcaagc tagctatgcc ggtgatagag 240
 ctaaagaaat caccaacagg gagcaggaag tggtagcagc ctgggcagcc ttgcagatcg 300
 cttgcgatca gagacacgga aaattgagcg atactggtga tctattcaaa ttctttaact 360
 tggtagcaac gttgatgcag tggatggacg aatggac 397

<210> 23
 <211> 490
 <212> ADN
 <213> Diabrotica virgifera

<400> 23
 gcagatgaac accagcgaga aaccaagaga tgtagtggt gttgaattgt tgatgaacaa 60

ccatcagaca ctcaaggctg agatcgaagc cagagaagac aactttacgg cttgtatttc 120
 tttaggaaag gaattgttga gccgtaatca ctatgctagt gctgatatta aggataaatt 180
 ggctcgcgttg acgaatcaaa ggaatgctgt actacagagg tgggaagaaa gatgggagaa 240
 cttgcaactc atcctcgagg tataccaatt cgccagagat gcggccgtcg ccgaagcatg 300
 gttgatcgca caagaacctt acttgatgag ccaagaacta ggacacacca ttgacgacgt 360
 tgaaaacttg ataaagaaac acgaagcgtt cgaaaaatcg gcagcggcgc aagaagagag 420
 attcagtgtt ttggagagac tgacgacgtt cgaattgaga gaaataaaga ggaaacaaga 480
 agctgcccag 490

<210> 24
 <211> 330
 <212> ADN
 <213> Diabrotica virgifera

<400> 24
 agtgaaatgt tagcaaatat aacatccaag tttcgtaatt gtacttgctc agttagaaaa 60
 tattctgtag tttcactatc ttcaaccgaa aatagaataa atgtagaacc tcgcgaactt 120
 gcctttcctc caaaatatca agaacctcga caagtttggt tggagagttt agatacgata 180
 gacgacaaaa aattgggtat tcttgagctg catcctgatg tttttgctac taatccaaga 240
 atagatatta tacatcaaaa tgtttagatgg caaagtttat atagatatgt aagctatgct 300
 catacaaagt caagatttga agtgagaggt 330

<210> 25
 <211> 320
 <212> ADN
 <213> Diabrotica virgifera

<400> 25
 caaagtcaag atttgaagtg agaggtggag gtcgaaaacc gtggccgcaa aagggattgg 60
 gacgtgctcg acatggttca attagaagtc cactttggag aggtggagga gttgttcatg 120
 gacaaaaatc tccaaccctt catttttaca tgattccatt ctacaccctt ttgctggggt 180
 tgactagcgc actttcagta aaatttgccc aagatgactt gcacgttggt gatagtctag 240
 atctgccaac tgacgaacaa agttatatag aagagctggt caaaagccgc ttttgggggt 300
 ccttcttggt ttatttgtag 320

<210> 26
 <211> 47
 <212> ADN
 <213> Secuencia artificial

<220>
 <223> Oligonucleótido cebador sintetizado

<400> 26
 ttaatacgac tcactatagg gagacaccat gggctccagc ggcgccc 47

<210> 27
 <211> 23
 <212> ADN
 <213> Secuencia artificial

<220>
 <223> Oligonucleótido cebador sintetizado

<400> 27
 agatcttgaa ggcgctcttc agg 23

<210> 28
 <211> 23
 <212> ADN
 <213> Secuencia artificial

<220>
 <223> Oligonucleótido cebador sintetizado

<400> 28
 caccatgggc tccagcggcg ccc 23

<210> 29
 <211> 47
 <212> ADN
 <213> Secuencia artificial

<220>
 <223> Oligonucleótido cebador sintetizado

<400> 29
 ttaatacgac tcactatagg gagaagatct tgaaggcgct cttcagg 47

<210> 30
 <211> 46
 <212> ADN
 <213> Secuencia artificial

<220>
 <223> Oligonucleótido cebador sintetizado

<400> 30
 ttaatacgac tcactatagg gagagctcca acagtgggttc cttatc 46

<210> 31
 <211> 29
 <212> ADN
 <213> Secuencia artificial

<220>
 <223> Oligonucleótido cebador sintetizado

<400> 31
 ctaataattc ttttttaatg ttcttgagg 29

<210> 32
 <211> 22
 <212> ADN
 <213> Secuencia artificial

<220>
 <223> Oligonucleótido cebador sintetizado

 <400> 32
 gctccaacag tggttcctta tc 22

 <210> 33
 <211> 53
 <212> ADN
 <213> Secuencia artificial

 <220>
 <223> Oligonucleótido cebador sintetizado

 <400> 33
 ttaatacgac tcactatagg gagactaata attctttttt aatgttcctg agg 53

 <210> 34
 <211> 48
 <212> ADN
 <213> Secuencia artificial

 <220>
 <223> Oligonucleótido cebador sintetizado

 <400> 34
 ttaatacgac tcactatagg gagattgtta caagctggag aacttctc 48

 <210> 35
 <211> 24
 <212> ADN
 <213> Secuencia artificial

 <220>
 <223> Oligonucleótido cebador sintetizado

 <400> 35
 cttaccaac aacggctaata aagg 24

 <210> 36
 <211> 24
 <212> ADN
 <213> Secuencia artificial

 <220>
 <223> Oligonucleótido cebador sintetizado

 <400> 36
 ttgttacaag ctggagaact tctc 24

 <210> 37
 <211> 48
 <212> ADN
 <213> Secuencia artificial

 <220>
 <223> Oligonucleótido cebador sintetizado

 <400> 37
 ttaatacgac tcactatagg gagacttaac caacaacggc taataagg 48

<210> 38
 <211> 47
 <212> ADN
 <213> Secuencia artificial

 <220>
 <223> Oligonucleótido cebador sintetizado

 <400> 38
 ttaatacgac tcactatagg gagaagatgt tggctgcatc tagagaa 47

<210> 39
 <211> 22
 <212> ADN
 <213> Secuencia artificial

 <220>
 <223> Oligonucleótido cebador sintetizado

 <400> 39
 gtccattcgt ccatccactg ca 22

<210> 40
 <211> 23
 <212> ADN
 <213> Secuencia artificial

 <220>
 <223> Oligonucleótido cebador sintetizado

 <400> 40
 agatgttggc tgcactctaga gaa 23

<210> 41
 <211> 46
 <212> ADN
 <213> Secuencia artificial

 <220>
 <223> Oligonucleótido cebador sintetizado

 <400> 41
 ttaatacgac tcactatagg gagagtccat tcgtccatcc actgca 46

<210> 42
 <211> 46
 <212> ADN
 <213> Secuencia artificial

 <220>
 <223> Oligonucleótido cebador sintetizado

 <400> 42
 ttaatacgac tcactatagg gagagcagat gaacaccagc gagaaa 46

<210> 43
 <211> 22
 <212> ADN
 <213> Secuencia artificial

```

<220>
<223> Oligonucleótido cebador sintetizado

<400> 43
ctgggcagct tcttgtttcc tc          22

<210> 44
<211> 22
<212> ADN
<213> Secuencia artificial

<220>
<223> Oligonucleótido cebador sintetizado

<400> 44
gcagatgaac accagcgaga aa          22

<210> 45
<211> 46
<212> ADN
<213> Secuencia artificial

<220>
<223> Oligonucleótido cebador sintetizado

<400> 45
ttaatacgac tcactatagg gagactgggc agcttcttgt ttcctc          46

<210> 46
<211> 51
<212> ADN
<213> Secuencia artificial

<220>
<223> Oligonucleótido cebador sintetizado

<400> 46
ttaatacgac tcactatagg gagaagtgaa atgtagcaa atataacatc c          51

<210> 47
<211> 26
<212> ADN
<213> Secuencia artificial

<220>
<223> Oligonucleótido cebador sintetizado

<400> 47
acctctcact tcaaactcttg actttg          26

<210> 48
<211> 27
<212> ADN
<213> Secuencia artificial

<220>
<223> Oligonucleótido cebador sintetizado

<400> 48
agtgaatgt tagcaaatat aacatcc          27

```

<210> 49
 <211> 50
 <212> ADN
 <213> Secuencia artificial

 <220>
 <223> Oligonucleótido cebador sintetizado

 <400> 49
 ttaatacgac tcactatagg gagaacctct cacttcaaat cttgactttg 50

 <210> 50
 <211> 50
 <212> ADN
 <213> Secuencia artificial

 <220>
 <223> Oligonucleótido cebador sintetizado

 <400> 50
 ttaatacgac tcactatagg gagacaaagt caagatttga agtgagaggt 50

 <210> 51
 <211> 25
 <212> ADN
 <213> Secuencia artificial

 <220>
 <223> Oligonucleótido cebador sintetizado

 <400> 51
 ctacaaataa aacaagaagg acccc 25

 <210> 52
 <211> 26
 <212> ADN
 <213> Secuencia artificial

 <220>
 <223> Oligonucleótido cebador sintetizado

 <400> 52
 caaagtcaag atttgaagtg agaggt 26

 <210> 53
 <211> 49
 <212> ADN
 <213> Secuencia artificial

 <220>
 <223> Oligonucleótido cebador sintetizado

 <400> 53
 ttaatacgac tcactatagg gagactacaa ataaaacaag aaggacccc 49

 <210> 54
 <211> 1150
 <212> ADN
 <213> Zea mays

<400> 54
 caacggggca gcactgcact gcactgcaac tgcgaatttc cgtcagcttg gagcgggtcca 60
 agcgccctgc gaagcaaact acgccgatgg cttcggcggc ggcgtgggag ggtccgacgg 120
 ccgcgagct gaagacagcg ggggcggagg tgattcccgg cggcgtgcga gtgaaggggt 180
 gggtcacca gtcccacaaa ggcctatcc tcaacgccgc ctctctgcaa cgctttgaag 240
 atgaacttca aacaacacat ttacctgaga tggtttttgg agagagtttc ttgtcacttc 300
 aacatacaca aactggcatc aaatttcatt ttaatgcgct tgatgcactc aaggcatgga 360
 agaaagaggc actgccacct gttgaggttc ctgctgcagc aaaatggaag ttcagaagta 420
 agccttctga ccaggttata cttgactacg actatacatt tacgacacca tattgtggga 480
 gtgatgctgt ggttgtgaac tctggcactc cacaacaag ttagatgga tgcggcactt 540
 tgtgttggga ggatactaat gatcggattg acattgttgc ctttcagca aaagaacca 600
 ttcttttcta cgacgaggtt atcttgatg aagatgagtt agctgacaat ggtatctcat 660
 ttcttactgt gcgagtgagg gtaatgcaa ctggttgggt tctgcttttg cgtttttggc 720
 ttagagtga tgggtgactg atgaggtga gagacactcg gttacattgc ctgtttggaa 780
 acggcgacgg agccaagcca gtggtacttc gtgagtgtcg ctggagggaa gcaacatttg 840
 ctactttgtc tgcgaaagga tatccttcgg actctgcagc gtacgcggac ccgaacctta 900
 ttgcccataa gtttcctatt gtgacgcaga agacccaaa gctgaaaaat cctacctgac 960
 tgacacaaag gcgccctacc gcgtgtacat catgactgtc ctgtcctatc gttgcctttt 1020
 gtgtttgcca catgttgttg atgtacgttt ctatgacgaa acaccatagt ccatttcgcc 1080
 tgggccgaac agagatagct gattgtcatg tcacgtttga attagaccat tccttagccc 1140
 tttttcccc 1150

<210> 55
 <211> 22
 <212> ADN
 <213> Secuencia artificial

 <220>
 <223> Oligonucleótido cebador sintetizado

<220>
 <221> característica miscelánea
 <222> (22)..(22)
 <223> n es a, c, g, o t

<400> 55
 tttttttttt tttttttttt vn 22

<210> 56
 <211> 25
 <212> ADN
 <213> Secuencia artificial

```

<220>
<223> Cebador directo RPII33-2 de v1 Conjunto 2

<400> 56
gatcaaactc gacatgtaac aactg          25

<210> 57
<211> 23
<212> ADN
<213> Secuencia artificial

<220>
<223> Cebador inverso RPII33-2 de v1 Conjunto 2
<400> 57
ggattcatca tcacgatggt tgg          23

<210> 58
<211> 21
<212> ADN
<213> Secuencia artificial

<220>
<223> Oligonucleótido cebador sintetizado

<400> 58
tgagggtaat gccaaactggt t          21

<210> 59
<211> 24
<212> ADN
<213> Secuencia artificial

<220>
<223> Oligonucleótido cebador sintetizado

<400> 59
gcaatgtaac cgagtgtctc tcaa          24

<210> 60
<211> 32
<212> ADN
<213> Secuencia artificial

<220>
<223> Oligonucleótido de sonda sintetizado
<400> 60
tttttgctt agagttgatg gtgtactgat ga 32

<210> 61
<211> 151
<212> ADN
<213> Escherichia coli

<400> 61
gaccgtaagg cttgatgaaa caacgcggcg agctttgatc aacgacctt tggaacttc 60

ggcttcccct ggagagagcg agattctccg cgctgtagaa gtcaccattg ttgtgcacga 120

cgacatcatt ccgtggcggt atccagctaa g          151

```

<210> 62
 <211> 69
 <212> ADN
 <213> Secuencia artificial

<220>
 <223> Región codificante parcial sintetizada

<400> 62
 tgttcgggttc cctctaccaa gcacagaacc gtcgcttcag caacacctca gtcaaggtga 60
 tggatgttg 69

<210> 63
 <211> 4233
 <212> ADN
 <213> Zea mays

<400> 63
 agcctgggtgt ttccggagga gacagacatg atccctgccg ttgctgatcc gacgacgctg 60
 gacggcgggg gcgcgcgcag gccgttgctc ccggagacgg accctcgggg gcgtgctgcc 120
 gccggcgcgc agcagaagcg gccgccggt acgccgaccg ttctcacgcg cgtcgtctcc 180
 gccgtgctcc tgctcgtcct cgtggcggtc acagtcctcg cgtcgcagca cgtcgacggg 240
 caggctgggg gcgttcccgc gggcgaagat gccgtcgtcg tcgaggtggc cgctcccgt 300
 ggcgtggctg agggcggtgc ggagaagtcc acggccccgc tcctcggctc cggcgcgctc 360
 caggacttct cctggaccaa cgcgatgctg gcgtggcagc gcacggcggt ccacttccag 420
 ccccccaaga actggatgaa cggtagttg gaccgctgc catcggtgac gacgcgcgga 480
 tcgttttttt cttttttcct ctcgttcttg ctctaacttg gttccgcgtt tctgtcacgg 540
 acgcctcgtg cacatggcga taccgatcc gccggccgcg tatactctatc tacctcgacc 600
 ggcttctcca gatccgaacg gtaagtgtt ggctccgata cgatcgatca catgtgagct 660
 cggcatgctg cttttctgcg cgtgcatgcg gtccttagca ttccacgtcc acgggtcgtg 720
 acatcaatgc acgatataat cgtatcggta cagagatatt gtcccatcag ctgctagctt 780
 tcgcgtattg atgtcgtgac attttgacg caggctccgt gtatcacaag ggctgtgacc 840
 acctcttcta ccagtggaa cggactccg cggtatgggg caacatcacc tggggccacg 900
 ccgtctcgcg cgacctctc cactggctgc acctaccgt ggccatggtg cccgatcacc 960
 cgtacgacgc caacggcgtc tgggtccgggt cggcgacgcg cctgcccgac ggccggatcg 1020
 tcatgtctta cacgggctcc acggcgaggt cgtcggcgca ggtgcagaac ctcgcgagc 1080
 cggccgacgc gtccgacctg ctgctcggg agtgggtcaa gtcggacgcc aaccgggtgc 1140
 tggtgccgcc gccgggcac gcccgacgcg acttccgcga cccgacgacg gcgtgtcgga 1200
 cgccggcccg caacgacacg gcgtggcggg tcgccatcgg gtccaaggac cgggaccacg 1260
 cggggctggc gctggtgtac cggacggagg acttcgtgcg gtacgacctg gcgccggcgc 1320
 tgatgcacgc cgtgccgggc accggcatgt gggagtgcgt ggacttctac ccggtggccg 1380

cgggatcagg cgccgcggcg ggcagcgggg acgggctgga gacgtccgcg gcgccgggac	1440
ccgggggtgaa gcacgtgctc aaggctagcc tcgacgacga caagcacgac tactacgcga	1500
tcggcaccta cgacccggcg acggacacct ggacccccga cagcgcggag gacgacgtcg	1560
ggatcggcct ccggtacgac tatggcaagt actacgcgtc gaagaccttc tacgaccccg	1620
tccttcgcgcg gcgggtgctc tgggggtggg tcggcgagac cgacagcgag cgcgcggaca	1680
tcctcaaggg ctgggcatcc gtgcaggtag gtctcagggt ttgaggctag catggcttca	1740
atcttgctgg catcgaatca ttaatgggca gatattataa cttgataatc tgggttggtt	1800
gtgtgtggtg gggatggtga cacacgcgcg gtaataatgt agctaagctg gttaaggatg	1860
agtaatgggg ttgcgtataa acgacagctc tgctaccatt acttctgaca cccgattgaa	1920
ggagacaaca gtaggggtag ccggtagggt tcgtcgactt gccttttctt ttttcctttg	1980
ttttgttggtg gatcgccaa cacaaggaaa ataggatcat ccaacaaaca tggaagtaat	2040
cccgtaaaac atttctcaag gaaccatcta gctagacgag cgtggcatga tccatgcatg	2100
cacaaacact agataggtct ctgcagctgt gatgttctt tacatatacc accgtccaaa	2160
ctgaatccgg tctgaaaatt gttcaagcag agaggccccg atcctcacac ctgtacacgt	2220
ccctgtacgc gccgtcgtgg tctcccgta tcctgccccg tccctccac gcggccacgc	2280
ctgctgcagc gctctgtaca agcgtgcacc acgtgagaat ttccgtctac tcgagcctag	2340
tagttagacg ggaaaacgag aggaagcgca cggccaagc acaacacttt gcgcggggcc	2400
gtgacttgtc tccggttggc tgaggcgcg cgacagagat gtatggcgcc gcggcgtgctc	2460
ttgtgtcttg tcttgctat acaccgtagt cagagactgt gtcaaagccg tccaacgaca	2520
atgagctagg aaacgggttg gagagctggg ttcttgctt gcctcctgtg atgtctttgc	2580
cttgcatagg gggcgagta tgtagctttg cgttttactt cagccaaag gatactgctg	2640
atcgtgaatt attattatta tatatatatc gaatatcgat ttctgcgtc tcgtgggggtt	2700
ttattttcca gactcaaact tttcaaaagg cctgtgtttt agttcttttc ttccaattga	2760
gtaggcaagg cgtgtgagtg tgaccaacgc atgcatggat atcgtgtag actggtagag	2820
ctgtcgttac cagcgcgatg cttgtatatg tttgcagtat tttcaaatga atgtctcagc	2880
tagcgtacag ttgaccaagt cgacgtggag ggcgcacaac agacctctga cattattcac	2940
ttttttttta ccatgccgtg cacgtgcagt caatccccag gacgttctc ctggacacga	3000
agacgggcag caacctgctc cagtggccgg tggaggaggt ggagaacctc cggatgagcg	3060
gcaagagctt cgacggcgctc gcgctggacc gcggatccgt cgtgcccctc gacgtcggca	3120
aggcgacgca ggtgacgcg cacgcagcct gctgcagcga acgaactcgc gcgttgccgg	3180
cccgcggcca gctgacttag tttctctggc tgatcgaccg tgtgcctcg tgctgtcagt	3240
tggacatcga ggctgtgttc gaggtggacg cgtcggacgc ggcgggcgctc acggaggccg	3300
acgtgacgtt caactgcagc accagcgag gcgcggcggg ccggggcctg ctcggccgt	3360

tcggccttct cgtgctggcg gacgacgact tgtccgagca gaccgccgtg tacttctacc	3420
tgctcaaggg cacggacggc agcctccaaa ctttcttctg ccaagacgag ctacaggtatg	3480
tatgttatga cttatgacca tgcatgcatg cgcatttctt agctaggctg tgaagcttct	3540
tgttgagttg tttcacagat gcttaccgtc tgctttgttt cgtatttcga ctaggcatcc	3600
aaggcgaacg atctgggtaa gagagtatac gggagcttgg tccctgtgct agatggggag	3660
aatctctcgg tcagaatact ggtaagtttt tacagcgcca gccatgcatg tgttggccag	3720
ccagctgctg gtactttgga cactcgttct tctcgactg ctattattg cttctgatct	3780
ggatgcacta caaattgaag gttgaccact ccatcgtgga gagctttgct caaggcggga	3840
ggacgtgcat cacgtcgcga gtgtacccca cagagccat ctacgactcc gcccgctct	3900
tcctcttcaa caacgccaca catgctcacg tcaaagcaaa atccgtcaag atctggcagc	3960
tcaactccgc ctacatccgg ccatatccgg caacgacgac ttctctatga ctaaattaag	4020
tgacggacag ataggcgata ttgcatactt gcatcatgaa ctatttgta caacagtgat	4080
tgtttaattt atttgctgcc ttcttatcc ttcttgtaa actatatggt acacacatgt	4140
atcattaggt ctagtagtgt tgttgcaaag acacttagac accagagggt ccaggagtat	4200
cagagataag gtataagagg gagcaggag cag	4233

<210> 64

<211> 20

<212> ADN

<213> Secuencia artificial

<220>

<223> Oligonucleótido cebador sintetizado

<400> 64

tgttcgggttc cctctaccaa 20

<210> 65

<211> 22

<212> ADN

<213> Secuencia artificial

<220>

<223> Oligonucleótido cebador sintetizado

<400> 65

caacatccat caccttgact ga 22

<210> 66

<211> 24

<212> ADN

<213> Secuencia artificial

<220>

<223> Oligonucleótido de sonda sintetizado

<400> 66

cacagaaccg tcgcttcagc aaca 24

<210> 67
 <211> 18
 <212> ADN
 <213> Secuencia artificial

<220>
 <223> Oligonucleótido cebador sintetizado

<400> 67
 tggcggacga cgacttgt 18

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

<220>
 <223> Oligonucleótido cebador sintetizado

<400> 68
 aaagtttgga ggctgccgt 19

<210> 69
 <211> 26
 <212> ADN
 <213> Secuencia artificial

<220>
 <223> Oligonucleótido de sonda sintetizado

<400> 69
 cgagcagacc gccgtgtact tctacc 26

<210> 70
 <211> 19
 <212> ADN
 <213> Secuencia artificial

<220>
 <223> Oligonucleótido cebador sintetizado

<400> 70
 cttagctgga taacgccac 19

<210> 71
 <211> 19
 <212> ADN
 <213> Secuencia artificial

<220>
 <223> Oligonucleótido cebador sintetizado

<400> 71
 gaccgtaagg cttgatgaa 19

<210> 72
 <211> 21
 <212> ADN
 <213> Secuencia artificial

<220>
 <223> Oligonucleótido de sonda sintetizado

<400> 72
 cgagattctc cgcgctgtag a 21

<210> 73
 <211> 20
 <212> ADN
 <213> Secuencia artificial

<220>
 <223> Bucle F de cebador

<400> 73
 ggaacgagct gcttgcgat 20

<210> 74
 <211> 20
 <212> ADN
 <213> Secuencia artificial

<220>
 <223> Bucle R de cebador

<400> 74
 cacggtgcag ctgattgatg 20

<210> 75
 <211> 18
 <212> ADN
 <213> Secuencia artificial

<220>
 <223> Bucle P de sonda

<400> 75
 tcccttccgt agtcagag 18

<210> 76
 <211> 1368
 <212> ADN
 <213> Euschistus heros

<400> 76
 gttcggctcg ggtgagtgtt taaaccaact acgcatcttg ttctcgaacc tttgcgaaca 60
 gtgttcacaa ataatgctcg gttggtgtaa aggtaccttt agagcgtgac cccaacttct 120
 tttgactcac cttgcagaaa ctcgatcact aacaattacg tgtatataat cgattcacta 180
 cacgaacgat acatggttgt ttaggttaca ttcatgttat ctttagtaat gaagttattg 240
 agttggccta attgttgaat gtagttaaca gaatgcctta tgccaatcaa ctttctgttc 300
 atgtttcaga tttaaccgac gacaatgtta aattccaaat agaagatata gaattaagtg 360
 tcgctaacag ctcagaaga gtcttcatag ctgaaacccc aacttttagct attgattggg 420
 tgcaattgtc tgcaaattct actgttttaa gtgatgaatt tattgcttct agaatcggac 480
 ttattccttt aacttctgat gctgcagtcg aaaaattaat ctattctagg gactgtaatt 540

```

gtactgattt ctgcccattc ttagtggttg agtttacttt agatgtcaaa tgtgtagatg      600
atcaaactag acatgtgaca actgcagatt taaagactgc tgatccatgt gtagttcctg      660
ctacatctaa aaatagagat gctgatgcca atgaatatgg tgaatcagat gatattttga      720
ttgttaaatt aagaaaagga caagagctta aattgagggc ctttgctaag aaaggttttg      780
gtaaggaaca tgctaagtgg aatcctactg ctgggggttg ttttgagtat gaccctgaca      840
actcaatgag gcatacactg tttccaaaac cagatgagtg gccaaaaagt gaatatactg      900
aattagatga ggatcagtat gaagctccat ttaattggga agccaaacct aacaaatfff      960
tcttcaatgt tgaaagttgt ggatctttgc gccccgaaa catagtatta aaaggagtag     1020
aagttctaaa atataaactt tctgatttat taattcaatt gagtcatgaa tcagctggcc     1080
aagttgatca tatgcctggt taaccagttt ttgtgataaa ttattatctg aaataattca     1140
attattatat ttatattaat gtaaaataaa aagaaatttg ataactgaaa aaaaaaaaaa     1200
aaaatctatt gaaagaatac attcattaat acctttctaa agaaaaatta ttcaatttaa     1260
aattgttgcc aaaaagtatt cagcatTTTT ttaaaattca atctaggcat atactactgt     1320
aaataaatac aaacaatact ttcatttttg tactgttcta aaaattgt                    1368

```

<210> 77

<211> 276

<212> PRT

<213> Euschistus heros

<400> 77

```

Met Pro Tyr Ala Asn Gln Pro Ser Val His Val Ser Asp Leu Thr Asp
1          5          10          15

```

```

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

```

```

Ser Leu Arg Arg Val Phe Ile Ala Glu Thr Pro Thr Leu Ala Ile Asp
          35          40          45

```

```

Trp Val Gln Leu Ser Ala Asn Ser Thr Val Leu Ser Asp Glu Phe Ile
          50          55          60

```

```

Ala Ser Arg Ile Gly Leu Ile Pro Leu Thr Ser Asp Ala Ala Val Glu
65          70          75          80

```

```

Lys Leu Ile Tyr Ser Arg Asp Cys Asn Cys Thr Asp Phe Cys Pro Ser
          85          90          95

```

```

Cys Ser Val Glu Phe Thr Leu Asp Val Lys Cys Val Asp Asp Gln Thr
          100          105          110

```

```

Arg His Val Thr Thr Ala Asp Leu Lys Thr Ala Asp Pro Cys Val Val

```

115 120 125
 Pro Ala Thr Ser Lys Asn Arg Asp Ala Asp Ala Asn Glu Tyr Gly Glu
 130 135 140

 Ser Asp Asp Ile Leu Ile Val Lys Leu Arg Lys Gly Gln Glu Leu Lys
 145 150 155 160

 Leu Arg Ala Phe Ala Lys Lys Gly Phe Gly Lys Glu His Ala Lys Trp
 165 170 175

 Asn Pro Thr Ala Gly Val Cys Phe Glu Tyr Asp Pro Asp Asn Ser Met
 180 185 190

 Arg His Thr Leu Phe Pro Lys Pro Asp Glu Trp Pro Lys Ser Glu Tyr
 195 200 205

 Thr Glu Leu Asp Glu Asp Gln Tyr Glu Ala Pro Phe Asn Trp Glu Ala
 210 215 220

 Lys Pro Asn Lys Phe Phe Phe Asn Val Glu Ser Cys Gly Ser Leu Arg
 225 230 235 240

 Pro Glu Asn Ile Val Leu Lys Gly Val Glu Val Leu Lys Tyr Lys Leu
 245 250 255

 Ser Asp Leu Leu Ile Gln Leu Ser His Glu Ser Ala Gly Gln Val Asp
 260 265 270

 His Met Pro Val
 275

<210> 78
 <211> 758
 <212> ADN
 <213> Euschistus heros

<400> 78
 tgtaaaactt gttctttaag atctcaagac cttttatttag aacatctaca ggcttaagag 60
 agccctctac aacttctacg tccatgtgca ccgtgtctat ttcacaaagg agatctgggt 120
 cttcctcctc aaccatcggc cagtccttct taagcgtatc ttctgtccag tagtttgtgg 180
 acctagtctt attggttcta tcatactoga acccgacaac agagacagga gaccacttgg 240
 catgcatcct ccctatcccc ttcttagcaa tacacctaatt tttcaggctt tgattcttcc 300
 caagttttgc aattaccggt gtgcttttta taaaagtctc gtcactgtca aattttatgt 360
 ctttacaagt cacgttaagg ggggtctctg aggtgttgct aacatcaagt tccatctcta 420
 cggaacaacg agagcaaagc tcatcacagt cacactcttc tttatacaca agctctttct 480
 ttgagtacat tgggataagc ccaagggact gtgccaatac ttcatcgggg aggaccgtgt 540

```

tgtttttgat gatttcgacg agatctattg cgatagtagg tacttcagat aagaggattc      600
tccttagagc attagcatag gagactgtaa tcccagtgag agtgaatttg atgtgttcgt      660
cgttttgttc gtgaattgta attttcatga gaaagctgga gggcaaaaga aatgaagtaa      720
atttagaagg gaacacctgt gaagtatgat cgactacg                               758

```

```

<210> 79
<211> 229
<212> PRT
<213> Euschistus heros

```

```

<400> 79

```

```

Met Lys Ile Thr Ile His Glu Gln Asn Asp Glu His Ile Lys Phe Thr
1           5           10           15

```

```

Leu Thr Gly Ile Thr Val Ser Tyr Ala Asn Ala Leu Arg Arg Ile Leu
          20           25           30

```

```

Leu Ser Glu Val Pro Thr Ile Ala Ile Asp Leu Val Glu Ile Ile Lys
          35           40           45

```

```

Asn Asn Thr Val Leu Pro Asp Glu Val Leu Ala Gln Ser Leu Gly Leu
          50           55           60

```

```

Ile Pro Met Tyr Ser Lys Lys Glu Leu Val Tyr Lys Glu Glu Cys Asp
65           70           75           80

```

```

Cys Asp Glu Leu Cys Ser Arg Cys Ser Val Glu Met Glu Leu Asp Val
          85           90           95

```

```

Ser Asn Thr Ser Glu Thr Pro Leu Asn Val Thr Cys Lys Asp Ile Lys
          100          105          110

```

```

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

```

```

Leu Gly Lys Asn Gln Ser Leu Lys Ile Arg Cys Ile Ala Arg Lys Gly
          130          135          140

```

```

Ile Gly Arg Met His Ala Lys Trp Ser Pro Val Ser Val Val Gly Phe
145           150           155           160

```

```

Glu Tyr Asp Arg Thr Asn Lys Thr Arg Ser Thr Asn Tyr Trp Thr Glu
          165          170          175

```

```

Asp Thr Leu Lys Lys Asp Trp Pro Met Val Glu Glu Glu Glu Pro Asp
          180          185          190

```

```

Leu Leu Cys Glu Ile Asp Thr Val His Met Asp Val Glu Val Val Glu

```

195

200

205

Gly Ser Leu Lys Pro Val Asp Val Leu Ile Lys Gly Leu Glu Ile Leu
 210 215 220

Lys Asn Lys Phe Tyr
 225

<210> 80

<211> 255

<212> ADN

<213> Euschistus heros

<400> 80

ggtgaatcag atgatatttt gattgttaaa ttaagaaaag gacaagagct taaattgagg 60

gcctttgcta agaaagggttt tggtaaggaa catgctaagt ggaatcctac tgctgggggtt 120

tgttttgagt atgaccctga caactcaatg aggcatcac tgtttccaaa accagatgag 180

tgggcaaaaa gtgaatatac tgaattagat gaggatcagt atgaagctcc atttaattgg 240

gaagccaaac ctaac 255

<210> 81

<211> 111

<212> ADN

<213> Euschistus heros

<400> 81

ttgttttgag tatgaccctg acaactcaat gaggcataca ctgtttccaa aaccagatga 60

gtggcaaaaa agtgaatata ctgaattaga tgaggatcag tatgaagctc c 111

<210> 82

<211> 398

<212> ADN

<213> Euschistus heros

<400> 82

cgtcgaaatc atcaaaaaca acacggtcct ccccgatgaa gtattggcac agtccttgg 60

gcttatccca atgtactcaa agaaagagct tgtgtataaa gaagagtgtg actgtgatga 120

gctttgctct cgttgttccg tagagatgga acttgatggt agcaacacct cagagacccc 180

ccttaacgtg acttgtaaag acataaaatt tgacagtgac gagactttta taaaaagcac 240

accggttaatt gcaaaaacttg ggaagaatca aagcctgaaa attaggtgta ttgctaggaa 300

ggggataggg aggatgcatg ccaagtggtc tcctgtctct gttgtcgggt tcgagtatga 360

tagaaccaat aagactaggt ccacaaacta ctggacag 398

<210> 83

<211> 49

<212> ADN

<213> Secuencia artificial

<220>

<223> Oligonucleótido cebador sintetizado

<400> 83
ttaatacgac tcactatagg gagaggtgaa tcagatgata ttttgattg 49

<210> 84
<211> 50
<212> ADN
<213> Secuencia artificial

<220>
<223> Oligonucleótido cebador sintetizado

<400> 84
ttaatacgac tcactatagg gagagttagg tttggcttcc caattaaatg 50

<210> 85
<211> 49
<212> ADN
<213> Secuencia artificial

<220>
<223> Oligonucleótido cebador sintetizado

<400> 85
ttaatacgac tcactatagg gagattgttt tgagtatgac cctgacaac 49

<210> 86
<211> 53
<212> ADN
<213> Secuencia artificial

<220>
<223> Oligonucleótido cebador sintetizado

<400> 86
ttaatacgac tcactatagg gagaggagct tcatactgat cctcatctaa ttc 53

<210> 87
<211> 49
<212> ADN
<213> Secuencia artificial

<220>
<223> Oligonucleótido cebador sintetizado

<400> 87
ttaatacgac tcactatagg gagacgtcga aatcatcaaa aacaacacg 49

<210> 88
<211> 48
<212> ADN
<213> Secuencia artificial

<220>
<223> Oligonucleótido cebador sintetizado

<400> 88
ttaatacgac tcactatagg gagactgtcc agtagtttgt ggacctag 48

<210> 89
 <211> 301
 <212> ADN
 <213> Secuencia artificial

<220>
 <223> Secuencia artificial sintetizada

<400> 89
 catctggagc acttctcttt catggaaga ttccttacgt tgtggagatg gaagggaatg 60
 ttgatggcca cacctttagc atacgtgga aaggctacgg agatgcctca gtgggaaagg 120
 ttgatgcaca gttcatctgc acaactggtg atgttcctgt gccttgagc acacttgtca 180
 ccactctcac ctatggagca cagtgccttg ccaagtatgg tccagagttg aaggacttct 240
 acaagtcttg tatgccagat ggctatgtgc aagagcgac aatcacctt gaaggagatg 300
 g 301

<210> 90
 <211> 47
 <212> ADN
 <213> Secuencia artificial

<220>
 <223> Oligonucleótido cebador sintetizado

<400> 90
 ttaatacgac tcactatagg gagagcatct ggagcacttc tctttca 47

<210> 91
 <211> 46
 <212> ADN
 <213> Secuencia artificial

<220>
 <223> Oligonucleótido cebador sintetizado

<400> 91
 ttaatacgac tcactatagg gagaccatct ccttcaaagg tgattg 46

<210> 92
 <211> 961
 <212> ARN
 <213> Diabrotica virgifera

<400> 92
 gccgaugcca uacauacgu uaaaacaucg uaucugcuca guucuuuau uaacacugaa 60
 gaaaaucgaa uuauaaaaug ccuacgcua acacaccguc aguacaaaau ucugaacuaa 120
 ccgaugaaaa uguuaaguuc gucguugagg acacagaccu uagcuuggca aacagucuac 180
 gucguguuuu caucgcugaa acuccaacc uagcaaucga uuggguucaa uucgaagcca 240
 acuccacugu acuggcagau gaauuccuug cccaucgaau ugguugauu ccuugauuu 300
 ccgaugaggu aguggacaga auccaaaaca cucgugaaug uucaugcuug gacuuuugca 360
 ccgagugcag uguggaauu acauuggaug ucaaaugcag cgacgaacau acgcgccacg 420

uuaccacggc cgauuuaaag uccagugacg cacgagugcu accaguuacg uccagacauc	480
gcgaugacga ggacaacgaa uauggagaga cgaacgauga aaucugauc aucaaacugc	540
gcaaagguca agagcugaag uugcgagcau acgcgaaaaa ggguuucggc aaggaacaug	600
ccaaauggaa uccaacggcu ggcguuagcu uugaauacga uccagucaau ucgaugagac	660
auaccugua cccgaagccg gacgaauggc cgaaaaguga gcacaccgaa cuugacgaug	720
aucaauacga agcugaauau aacugggagg cuaagccgaa caaguuuuuc uucaacguug	780
agucgagugg ugcacuucga ccggaaaaca uugugcugau gggagucaaa guuuugaaaa	840
acaaauguc caaucuacag acgcaguuaa gucacgaauu gacuacaaac gaugcgcucg	900
ugauucagua aaagcagcga ucccuaugaa uuucucaaa aucuuguuuu uuuccucuaa	960
g	961

<210> 93

<211> 1110

<212> ARN

<213> *Diabrotica virgifera*

<400> 93

cguugacacu guugacagug acaguugaaa uugaaaaccg gauuagagaa guuuucugg	60
aaaguuguuu uuuuaauaa cuaacauuaa auagaaguua uuuguuuuag gguuuauau	120
gccauaugca aaucagccau caguucauau aacagauuaa acagaugaua auugcaauu	180
uuauauagaa gacacugauu uaaguguugc gaauagcauu cgccgcgucc uuauugcaga	240
aacuccuacu cuagcuauag acuggguaaa auuagaagcu aacucaacug uucucaguga	300
ugaauuuuuu gcacaccgaa uuggauugau accauuaguu uccgaugaag uuguacaaag	360
auuacaauau ccuagggacu gcguaugucu cgauuuuugu caagaugca gugugaaau	420
uacuuuagau guaaaaugua cagaugauca aacucgacau guaacaacug ccgauuuuaa	480
aucuagugau ccacgaguca uaccagcuac uuccaaacau cgugaugaug aaucucaga	540
guauggugaa acagaugaaa uucuuuuuau uaaacugcga aagggucaag agcuuaaagu	600
uaaagcguau gccaaaaaag gcuuuggaaa agagcaugcc aaauuggaac cuacaugugg	660
uguugccuuu gaauaugauc cugauaacgc uaugagacau acauuuuuc cuaaaccaga	720
cgaauggccu aaaagugaau acagcgaauu agaagaugau caguaugaag cuccauuaa	780
cugggaauua aaaccuaaua aaucuuucua caauguggag gcugcuggau uguugaaacc	840
agaaaauuu gucaucaugg guguagcuau guuaaaagaa aaacugucua auuugcaaac	900
acaacucagc cacgaacuaa caccugaugu uuuggccauu ccauuuuuag aaguuaauua	960
caaucauagg uagaguucan ucaaccacag uuauacauuu uuuuuuauau agauaaguua	1020
guuuuacacu auaggaacaa uuuuugacau guugacuaaa gaucuuguuc aaauagacua	1080
gaaauaaaau uuugaaucca aaaaaaaaaa	1110

<210> 94
 <211> 483
 <212> ARN
 <213> *Diabrotica virgifera*

<400> 94
 gaauuccuug ccacucgaau uggcuugauu ccuugauuu ccgaugaggu aguggacaga 60
 auccaaaaca cucgugaaug uucaugcuug gacuuuugca ccgagugcag uguggaauuu 120
 acauuggaug ucaaaugcag cgacgaacau acgcgccacg uuaccacggc cgauuuuaag 180
 uccagugacg cacgagugcu accaguuacg uccagacauc gcgaugacga ggacaacgaa 240
 uauggagaga cgaacgauga aaucugauc aucaaacugc gcaaagguca agagcugaag 300
 uugcgagcau acgcgaaaaa ggguuucggc aaggaacaug ccaauggaa uccaacggcu 360
 ggcguuagcu uugaauacga uccagucaau ucgaugagac auaccugua cccgaagccg 420
 gacgauggc cgaaaaguga gcacaccgaa cuugacgaug aucaauacga agcugaauau 480
 aac 483

<210> 95
 <211> 496
 <212> ARN
 <213> *Diabrotica virgifera*

<400> 95
 guucucagug augaauuuuu agcacaccga auuggauuga uaccuuagu uuccgaugaa 60
 guuguacaaa gauuacaaua uccuagggac ugcguauguc ucgauuuuug ucaagaauugc 120
 aguguugaau uuacuuuaga uguaaaaugu acagaugauc aaacucgaca uguaacaacu 180
 gccgauuuua aaucuauguga uccacgaguc auaccagcua cuuccaaaca ucgugaugau 240
 gaauccucag aguaugguga aacagaugaa auucuuauua uuaaacugcg aaagggucua 300
 gagcuuaaag uuaaagcgua ugccaaaaaa ggcuuuggaa aagagcaugc caauggaau 360
 ccuacaugug guguugccuu ugaauaugau ccugauaacg cuaugagaca uacauuuuuu 420
 ccuaaaccag acgaauggcc uaaaagugaa uacagcgaa uagaaugaa ucaguaugaa 480
 gcuccauaua acuggg 496

<210> 96
 <211> 132
 <212> ARN
 <213> *Diabrotica virgifera*

<400> 96
 cuuuagaugu aaaauguaca gaugaucaaa cucgacaugu aacaacugcc gauuuuaau 60
 cuagugaucc acgagucuaa ccagcuacuu ccaaacaucg ugaugaugaa uccucagagu 120
 auggugaaac ag 132

<210> 97
 <211> 125
 <212> ARN

<213> *Diabrotica virgifera*

<400> 97

gcguauGCCa aaaaaggcuu uggaaaagag caugccaaau ggaaucCuac augugguguu 60
gccuuugaau augauccuga uaacgcuaug agacauacau uauuuccuaa accagacgaa 120
uggcc 125

<210> 98

<211> 1368

<212> ARN

<213> *Euschistus heros*

<400> 98

guucggcucg ggugaguguu uaaaccaacu acgcaucuug uucucgaacc uuugcgaaca 60
guguucacaa auaaugcucg guugguguaa agguaccuuu agagcgugac cccaacuucu 120
uuugacucac cuugcagaaa cucgaucacu aacaauuacg uguauuaau cgauucacua 180
cacgaacgau acaugguugu uuagguuaca uucauguuau cuuuguaau gaaguauug 240
aguuggccua auuguugaau guaguuaaca gaugccuua ugccaaucua ccuucuguuc 300
auguuucaga uuaaaccgac gacaauguaa aaauccaaau agaagauaca gaauuaagug 360
ucgcuaacag ccucagaaga gucuucauag cugaaacccc aacuuuagcu auugauuggg 420
ugcaauuguc ugcaaaucu acuguuuuaa gugaugaaau uauugcuucu agaaucggac 480
uuauuccuuu aacuucugau gcugcagucg aaaaauuau cuauucagg gacuguaau 540
guacugauuu cugcccaucc uguaguguug aguuuacuuu agaugucaa uguguagaug 600
aucaaacuag acaugugaca acugcagauu uaaagacugc ugauccaugu guaguuccug 660
cuacaucuaa aaauagagau gcugaugcca augaauagg ugaaucagau gauauuuuga 720
uuguuaauu aagaaaagga caagagcuua aaugagggc cuuugcuaag aaagguuuug 780
guaaggaaca ugcuaagugg aaucCuacug cugggguuug uuuugaguau gaccugaca 840
acucaauggag gcuaacacug uuuccaaaac cagaugagug gccaaaaagu gaauuacug 900
aaauagauga ggaucaguau gaagcuccau uuaauugga agccaaaccu aacaaauuuu 960
ucuucaaugu ugaaaguugu ggaucuuugc gccccgaaa cauaguaua aaaggaguag 1020
aaguucuaaa auauaaacu ucugauuuau uaaaucaau gagucauga ucagcuggcc 1080
aaguugauca uauGCCuguu uaaccaguuu uugugauaaa uuauuauucg aaauauuca 1140
auuauuauu uuauuuuau guaaaaaaa aagaaauug auaacugaaa aaaaaaaaaa 1200
aaaaucuaau gaaagaauac auucauuau accuuucuaa agaaaaaua uucauuuaa 1260
aauguugcc aaaaaguau cagcauuuuu uaaaaauca aucuaggcau auacuacugu 1320
aaauaaauac aaacaauacu uucauuuuug uacuguucua aaaaauugu 1368

<210> 99

<211> 758

<212> ARN

<213> *Euschistus heros*

<400> 99
 uguaaaaacu guucuuuaag aucucaagac cuuuuuuuuag aacaucauaca ggcuuaagag 60
 agcccucucac aacuucucag uccaugugca ccgugucua uucacaaagg agaucugguu 120
 cuuccuccuc aaccaucggc caguccuucu uaagcguauc uucuguccag uaguuuugug 180
 accuagucuu auugguucua ucauacucga acccgacaac agagacagga gaccacuugg 240
 caugcauccu ccuaucccc uuccuagcaa uacaccuaau uuucaggcuu ugauucuucc 300
 caaguuuugc aaauaccggu gugcuuuuuu uaaaagucuc gucacuguca aaauuuuangu 360
 cuuuacaagu cacguuaagg ggggucucug agguguugcu aacaucaagu uccaucucua 420
 cggaacaacg agagcaaagc ucaucacagu cacacucuc uuuauacaca agcucuucu 480
 uugaguacau ugguuagagc ccaagggacu gugccaauac uucaucgggg aggaccgugu 540
 uguuuuugau gauuucgagc agaucuauug cgauaguagg uacuucagau aagaggauuc 600
 uccuuagagc auuagcauag gagacuguaa ucccagugag agugaauuug auguguucgu 660
 cguuuuguuc gugaauugua auuuucauga gaaagcugga gggcaaaaga aaugaaguaa 720
 auuuagaagg gaacaccugu gaaguaugau cgacuacg 758
 <210> 100
 <211> 255
 <212> ARN
 <213> Euschistus heros
 <400> 100
 ggugaauacag augauuuuuu gauuguuaaa uuaagaaaag gacaagagcu uaaaauagagg 60
 gccuuugcua agaaagguuu ugguuaggaa caugcuaagu ggauccuac ugcugggguu 120
 uguuuugagu augaccuga caacucaaug aggcauacac uguuuccaaa accagaugag 180
 uggccaaaaa gugaauuac ugaauuagau gaggaucagu augaagcucc auuuauuugg 240
 gaagccaaac cuaac 255
 <210> 101
 <211> 111
 <212> ARN
 <213> Euschistus heros
 <400> 101
 uuguuuugag uaugaccug acaacucaa gaggcuaaca cuguuuccaa aaccagauga 60
 guggccaaa agugaauuaa cugaauuaga ugaggauacg uaugaagcuc c 111
 <210> 102
 <211> 398
 <212> ARN
 <213> Euschistus heros
 <400> 102
 cgucgaaauc aucaaaaaca acacgguccu ccccgauaa guauuggcac agucccuugg 60
 gcuaauccca auguacuaa agaaagagcu uguguauaaa gaagagugug acugugauga 120

gcuuugcucu cguuguuccg uagagaugga acuugauguu agcaacaccu cagagacccc 180
ccuaaacgug acuuguaaaag acuaaaaauu ugacagugac gagacuuuuu uaaaaagcac 240
accgguaauu gcaaaacuug ggaagaauc aagccugaaa auuaggugua uugcuaggaa 300
ggggauaggg aggaugcaug ccaagugguc uccugucucu guugucgggu ucgaguauga 360
uagaaccaau aagacuaggu ccacaaacua cuggacag 398

<210> 103
<211> 437
<212> ADN
<213> Secuencia artificial

<220>
<223> ADN que codifica ARNdh de v1 de rpII33-2 de Diabrotica

<400> 103
cttttagatgt aaaatgtaca gatgatcaaa ctgcacatgt aacaactgcc gattttaaat 60
ctagtgatcc acgagtcata ccagctactt ccaaacatcg tgatgatgaa tcctcagagt 120
atggtgaaac aggaagctag taccagtcac cagcgtggag cgcacatata ggccctccat 180
cagaaagtca ttgtgtatat ctctcatagg gaacgagctg cttgctgatt tcccttccgt 240
agtcagagtc atcaatcagc tgcaccgtgt cgtaaagcgg gacgttcgca agtcgtccg 300
cgggtactgtt tcaccatact ctgaggatcc atcatcacga tgtttggaag tagctggtat 360
gactcgtgga tcactagatt taaaatcggc agttgttaca tgtcgagttt gatcatctgt 420
acattttaca tctaaag 437

<210> 104
<211> 423
<212> ADN
<213> Secuencia artificial

<220>
<223> ADN que codifica ARNdh de v2 de rpII33-2 de Diabrotica

<400> 104
gcgtatgcc aaaaaggctt tggaaaagag catgccaaat ggaatcctac atgtggtgtt 60
gcctttgaat atgatcctga taacgctatg agacatacat tatttcctaa accagacgaa 120
tgccgaagc tagtaccagt catcacgctg gagcgacat ataggccctc catcagaaag 180
tcattgtgta tatctctcat agggaaacgag ctgcttgctg atttcccttc cgtagtcaga 240
gtcatcaatc agctgcaccg tgctgtaaag cgggacgttc gcaagctcgt ccgcggtagg 300
ccattcgtct ggtttaggaa ataatgtatg tctcatagcg ttatcaggat catattcaaa 360
ggcaacacca catgtaggat tccatttggc atgctctttt ccaaagcctt ttttggcata 420
cgc 423

<210> 105
<211> 27
<212> ADN

<213> Secuencia artificial

<220>

<223> Sonda RPII33-2 de v1 Conjunto 2 PRB

<400> 105

agtgatccac gagtcatacc agctact 27

<210> 106

<211> 29

<212> ADN

<213> Secuencia artificial

<220>

<223> Sonda RPII33-2 de v2 Conjunto 2 PRB

<400> 106

tgtggtgttg cctttgaata tgatcctga 29

<210> 107

<211> 173

<212> ADN

<213> Secuencia artificial

<220>

<223> Polinucleótido de bucle de ARNdh

<400> 107

gaagctagta ccagtcatca cgctggagcg cacatatagg ccctccatca gaaagtcatt 60

gtgtatatct ctcataggga acgagctgct tgcgtatttc ccttccgtag tcagagtcatt 120

caatcagctg caccgtgtcg taaagcgga cgttcgcaag ctggtccgcg gta 173

<210> 108

<211> 437

<212> ARN

<213> Secuencia artificial

<220>

<223> ARNdh de v1 de rpII33-2

<400> 108

cuuuagaugu aaaauguaca gaugaucaaa cucgacaugu aacaacugcc gauuuuaau 60

cuagugaucc acgagucuaa ccagcuacuu ccaaacaucg ugaugaugaa uccucagagu 120

auggugaaac aggaagcuag uaccagucan cacgcuggag cgcacauua ggccuccau 180

cagaaaguca uuguguauau cucucanagg gaacgagcug cuugcguauu ucccuuccgu 240

agucagaguc aucaaucagc ugcaccgugu cguaaaagcg gacguucgca agcucgucg 300

cgguacuguu ucaccuacu cugaggauuc aucaucacga uguuuggaag uagcugguau 360

gacucgugga ucacuagauu uaaaaucggc aguuguuaca ugucgaguuu gaucaucugu 420

acauuuuaca ucuaaag 437

<210> 109

<211> 423

<212> ARN

<213> Secuencia artificial

<220>

<223> ARNdh de v2 de rpII33

<400> 109

gcguaugcca aaaaaggcuu uggaagag caugccaaau ggaauccuac augugguguu	60
gccuuugaau augauccuga uaacgcuaug agacauacau uauuuccuaa accagacgaa	120
uggccgaagc uaguaccagu caucacgcug gagcgacau auaggcccuc caucagaaag	180
ucauugugua uaucucucau aggggaacgag cugcuugcgu auuucccuuc cguagucaga	240
gucaucaauc agcugcacgc ugucguaaag cgggacguuc gcaagcucgu ccgcgguagg	300
ccaauucgucu gguuuaggaa auaauguag ucucauagcg uuaucaggau cauauucaa	360
ggcaacacca cauguaggau uccaauuggc augcucuuuu ccaaagccuu uuuuggcaua	420
cgc 423	

<210> 110

<211> 19

<212> ADN

<213> Secuencia artificial

<220>

<223> Cebador directo rpII33 de v1 Conjunto 2

<400> 110

aaagagcatg ccaaatgga 19

<210> 111

<211> 19

<212> ADN

<213> Secuencia artificial

<220>

<223> Cebador inverso rpII33 de v1 Conjunto 2

<400> 111

ggccattcgt ctggtttag 19

3