

SEQUENCE LISTING

<110> Centro de Investigación y de Estudios Avanzados del
 Instituto Politécnico Nacional

<120> Methods to identify drought-tolerant bean plants

<130> Cinvestav13

<160> 65

<170> PatentIn version 3.5

<210> 1
 <211> 41
 <212> DNA
 <213> Unknown

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 <223> Proteína transductora, sensor aceptador de metilos

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 <223> Clona 1

<400> 1
 agcgtggtcg cggccgaggt gcggtgcga gaagacgaca g 41

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 gtaccttccc ttttccccat catagatctc attcagttcc agtttctatg tacggctgcg 60
 agaagacga 69

<210> 3
 <211> 70
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 <223> Proteína cinasa SPK3

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 agaattgtac 70

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 <212> DNA
 <213> Unknown

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 <223> Alfa carboxil transferasa

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 <223> Clona 4

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 <223> Fosfoglucomutasa de cloroplasto

<220>
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 <223> Clona 5a

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 cccttgtaaa atatggtac 139

<210> 6
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 <212> DNA
 <213> Unknown

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 <223> Clona 5b

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 actcgagcga tctctgatat ggatacgcgt gtaacaaaac aacctgcgta tgaaagcagc 120
 ttagagcaca tcggggtagc tcggctgcgt ccactctag 159

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<400> 7
 gtacggtaac gctcggccga aaaaggagaa gatgatagag cgcataaagg acaagggtga 60
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 gggtttaciaa ctcatgtac 139

<210> 8
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 <212> DNA
 <213> Unknown

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 <223> PVPROFILIN. Profilina

<220>
 <221> misc_feature
 <223> Clona 7

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 accctttctc ttctcaacac gcacatgcc tgacttttga tacccaacaa tattattaca 120
 ttgcaatcaa agcattccag tagaggtcga agcaaaaact tgtac 165

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 <211> 161
 <212> DNA
 <213> Unknown

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 <223> PVPROFILIN. Profilina (otro fragmento del gen)

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<400> 9
 gtacaagttt ttgcatcgac ctgcactgga atgctttgat tgcagtttaa taatcttgtg 60
 ggtgtcaaaa gtcaggggat ctgcgtgtag tgaagaaagt gttttgatgc ttgagaaatg 120
 atgactataa tgtcctatgc ttgtactttt tagtggggta c 161

<210> 10
 <211> 167
 <212> DNA
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 cccaagggttg ggagtggaat ggttccagat catttgatgg cccaagaaat aaggacagaa 120
 actaaggaac aaggtcaaga atagtgtttc tgcgaccgg tctgtac 167

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 <213> Unknown

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 <223> Proteína precursora de Hsp pequeñas cloroplasto

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 gtacatctat gtttaattatt tttgcagaga tgttggcttt gggaattggt acatgaggaa 60
 ttccatcttt gacctctgcc ttaattttat caaactcaat gttttctggg agggtctattc 120
 tgtgggtata tctgcatag ctattggcag gccaatcttc ttcatctttt gtac 174

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 gctgaagaag gttgctgtta aagtcaagaa gattatggcc tcggttttga tgttcatgcg 120
 agttggttct ctcaggctct gcggttctag gtctgccatt tctgatggat cttcgctgt 180
 ac 182

 <210> 13
 <211> 207
 <212> DNA
 <213> Unknown

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 <223> Proteína de cloroplasto

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 <221> misc_feature
 <223> Clona 12

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 aaatagtcac catacaataa ttctcttgta acttgatctt atctaagct atattatata 120
 accttctctt ctgttatttc tcttttttac tgtcacttcc tttattcatt cctttccaat 180
 ttcaatttgc tgcaactggt atagtac 207

 <210> 14
 <211> 214
 <212> DNA
 <213> Unknown

 <220>
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 <220>
 <221> misc_feature
 <223> mRNA inducido por AIA y JA

 <220>
 <221> misc_feature

<223> Clona 13

<400> 14
gtacacattc tcctcggggt cccaagtggg ctcatccaaa tccgcccatt taactaaaaa 60
ctccggcgtc ccttcatccg ccaccctttt cgcgagcacc gcctcggcca ccgcgtattc 120
aagaccagcc tcgtagtctc tgaccgaatc ctccgccaca aacttcgcct tcacccactc 180
attggcctca ccgtccttcc accgcacaag gtac 214

<210> 15
<211> 221
<212> DNA
<213> Unknown

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<400> 15
gtgcataaaa ttttataaat gcaacacata tattggttcg tacactggct gtcggaatct 60
ctctcggcca tgaacagaaa taacatcagt tactaaaaac ccaagattgg gagtgggaatg 120
gttccagatt atttgatggc ccaagaaata aggacagaaa ctaaggaaca aggtcaagaa 180
tagtgtttct gcgaccgggt ctgtactoct tcttcacgta c 221

<210> 16
<211> 286
<212> DNA
<213> Unknown

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<223> Proteína desconocida

<220>
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<400> 16
gttcatttgt ttggatttta ggaaggatag tataagggga agaaagatga tgtattctac 60
agcataacaa attgaaaaaa cagcattaaa gagcctcgca acacttatca tggatcagta 120
gactacttcg aagatgaacg tagggaagag tggggtatct acgtatcatt tgaaagtgga 180
gaatcttgga agcttgtctc tgagatagta ctgagagaga gagagagaga gagaactagt 240
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<210> 17

<211> 346
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 <221> misc_feature
 <223> Proteína intrínseca de cloroplasto

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 <221> misc_feature
 <223> Clona 16

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 aggaagcttg aaggaacaaa gaagaacaat aagtgatgtt ttaaggata ggtttcagag 120
 gctgggacag cggcatagga accaatgaag acatctccat agattaaccc agccaaacct 180
 cctccaatca atggaccaac ccagtagatc cagttatcag caaagtttcc actaaccaca 240
 gctgggccga aagagcgagc tgggttcac gaaccaccac tgaatggacc agcagctagg 300
 atgttagcac ccacaatgaa cccaatagca atgggtgcaa tgggtac 346

 <210> 18
 <211> 354
 <212> DNA
 <213> Unknown

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 <223> Clona 17

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 <223> GenBank: DQ196430.1

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 <223> GenBank: DT661620.1

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 accaggggca atagcggata cactgaaagc cgcggatcag aatgcgggac agaccttcaa 120
 cgatgtggga cgcttccatg atgaggagat cgtaaaaaag aaataatgtg atacttagta 180
 tatagtatca tattatgtgc aatgcacaat atctatatat atgtgcagtt tatgtagtgt 240
 gtttgagta tatgttatgt gatcaaaagt tgtttggtta aattttgggt ttcttggttt 300
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 <223> Clona 18

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 ttgcatataa ttttaggaac tgtttacttt ttctgaaact tttatcaatg ttgaatgtac 120

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 <223> Clona 19

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 ccggtaaagc tgctgttcag tttcaagagc caaagccgga ggtgaggcag accgtggtat 120

 tacaaccggc cgtac 135

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 <223> Clona 20

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 <223> GenBank: DT661623.1

<400> 21
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 gtac 184

<210> 22
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 <223> Clona 21

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 <223> GenBank: DT661624.1

<400> 22
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 atagtggaaa ctacaccagt gtgagtgatc ttgatacggg ac 102

<210> 23
 <211> 79
 <212> DNA
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 <221> misc_feature
 <223> Clona 22

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 <221> misc_feature
 <223> GenBank: DT661625

<400> 23

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cgagtacatt aggtagtac 79

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 <221> misc_feature
 <223> Clona 23

<220>
 <221> misc_feature
 <223> GenBank DT661626

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gttacgtaat gttggaatag tac 83

<210> 25
 <211> 92
 <212> DNA
 <213> Unknown

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<220>
 <221> misc_feature
 <223> Clona 24

<220>
 <221> misc_feature
 <223> GenBank: DT661627.1

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tcatcaagag tgaataaaaag tttgttttgt ac 92

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<223> Zeaxantina epoxidasa
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 <221> misc_feature
 <223> Clonā 25
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 <221> misc_feature
 <223> GenBank: DT661628
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 <212> DNA
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 <223> Enzima de glicosilación
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 <221> misc_feature
 <223> Clonā 26
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 <221> misc_feature
 <223> GenBank: DT661629
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 gaagtagaaa ttgaaggcaa gacgtac 147
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 <211> 53
 <212> DNA
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 <221> misc_feature
 <223> Proteína rica en repetidos de leucina
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 <223> Clonā 27
 <220>
 <221> misc_feature
 <223> GenBank: DT661630.1
 <400> 28
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<210> 29
<211> 282
<212> DNA
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<223> B-galactosidasa

<220>
<221> misc_feature
<223> Clona 28

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<223> GenBank: EE253606

<400> 29
accacaagta gtcagacaaa tctctggttg catttatctg ctccaacagg ccactcacag 60
tgaaggaact atcatcagta gtggttgtct cttcattaaa cgctttccaa gatagtcctc 120
catgaatagg aacacgactc atcttcattg ttgtgctctg agaaccaacc cttgcagtgt 180
tataaacagt gtgcttgcag ttaggaagaa tgcttataga ccaaggaggt aaattgtaat 240
gctgatttcc aaatgcaacc gttgcataag attgcggggt at 282

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<212> DNA
<213> Unknown

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<223> Proteína asociada a senescencia

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<223> Clona 29

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<223> GenBank: EE253607

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acggacaagg ggaatccgac tgtttaatta aaacaaagca ttgcgatggt ccctgcggat 60
gttgacgcaa tgtgatttct gcccagtgtc ctgaatgtca aagtgaagaa attcaaccaa 120
gcgcgggtaa acggcgggag taactatgac tctcttaagg tagccaaatg cctcgtcac 180
taattagtga cgcgcatgaa tggattaacg agattccac tgtccctgtc tactatccag 240
cgaaaccaca gccaaaggaa cgggcttggc ggaatcagcg gggaaagaag accctgttga 300
gcttgactct agtccgactt tgtgaaatga cttgagaggt gtaggataag tgggagctgg 360

aaacagcgaa agtgaataac cactactttt aacgttattt tacttattcc gtgaatcgga	420
agcgggggcgc tgccccctctt tttggacceca aggtcggcctt cggccgggtcg atccggggcgg	480
aagacattgt caggtgggga gtttggctgg ggcggcacat ctgttaaaag ataacgcagg	540
tgtcctaaga tgagctcaac gagaacagaa atctcgtgtg gaacaaaagg gtaaaagctc	600
gtttgattct gatttccagt acgaatacga accgtgaaag cgtggcctat cgatccttta	660
gtccttcgga atttgaagct agaggtgtca gaaaagttac cacagggata actggcttgt	720
ggcagccaag cgttcatagc gacgttgctt tttgatcctt cgatgtcggc tcttcctatc	780
attgtgaagc agaatttcac caagtgttgg attgttcacc taccaatagg gaacgtgagc	840
tgggattaga ccgtcgtgag acaggttagt tttaccctac tgatgacagt gtcgcaatag	900
taattcaacc tagt	914

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 <211> 458
 <212> DNA
 <213> Unknown

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<220>
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 <223> Clona 30

<220>
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 <223> GenBank: EE253609

<400> 31	
actacttcac tatcggtcac ccaggagtat ttagccttgc aaggtgggtcc ttgctgattc	60
acacgggatt ccacgtgccc catgctactc gggtcagagc gtaagctagt gatgctttcg	120
gctactggac tttcgccatc taggggtgcag cattctatgc tgcttcgcct agcagcacga	180
cacttgata gctctccac aaccccgttt tcacggttta ggctgctccc atttcgctcg	240
ccgctactac gggaatcgct tttgctttct tttcctctgg ctactaagat gtttcagttc	300
accaggttgt ctcttgctg cccgtggatt cagcagcagt tcgaaagggt gacctatata	360
gggaatctcc ggatctacgc ttattttcaa ctccccgaag catttcgctg cttactacgc	420
ccttcctcgt ctctgggtgc ctaggtatcc accataag	458

<210> 32
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 <212> DNA
 <213> Unknown

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 <221> misc_feature
 <223> Clona 31

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 <223> GenBank: EE253610.1

<400> 32
 agagaagtag cagattacat aggaactgta catcatgaat ttcactattc tgttcaggat 60
 ggcatagatg ccattgaaga tgtgatctac catattgaaa catatgatgt gactacaatt 120
 agagcaagca ttcccatggt tcttatgtcg cgtaagatta agtcactagg agtcaagtgg 180
 gttatctctg gagaaggatc tgatgagatc tttggagggt atctatatatt ccacaaggca 240
 cccaacaaag aagagtttca ccaagaaaca tgccgcaaga ttaaagcact ccacaaatat 300
 gattgcttgc gagccaataa atcgaccttt gcctgggggtc tagaagccag agtaccattt 360
 ttggacaaag agtttatcga agttgcaatg aacattaatc ctgagtacaa aatgataaaa 420
 aaagaagaag ggagaattga gaaatgggt 449

<210> 33
 <211> 321
 <212> DNA
 <213> Unknown

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 <223> Proteína mio-inositol-1-fosfato sintasa

<220>
 <221> misc_feature
 <223> Clona 32

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 <221> misc_feature
 <223> GenBank: EE253611.1

<400> 33
 acacttcaga gatattcatg ggtggaaaga acacaatagt gttacacaac acctgtgagg 60
 attcactgtt agctgctcct attatcttgg acctggctcct tcttgctgag cttagcacta 120
 gaatccagtt taaagctgaa gatgagggca agtttcactc attccaccct gttgccacca 180
 tactcagtta cctgaccaag gcccctcttg ttccacctgg taccctcagt gtgaatgcat 240
 tatcaaagca gcgagctatg ctggaaaaca tcatgagggc ttgtgttgga ttagctcctg 300
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<210> 34
<211> 148
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<223> Clona 33

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<223> GenBank: EE253612.1

<400> 34
acagtgaaaa accttttttaa ccagtaacaa caccattca ctctccatgg caaaaatgga 60
gagaaaaagt gaacaagact aaagaaacca actacgccat ttttataata accattgatg 120
atataatcat cattatttaa ttgtaagt 148

<210> 35
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<223> Clona 34

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<221> misc_feature
<223> GenBank: EE253613

<400> 35
actcatacat agccatagca gaaccaccag aggaagaatc aaacctcttg aacttcaaca 60
gcattaccaa cttgtttcac ttccctcagc tcttccttct tcaactttctt ctcttcttta 120
ttcttcactt ccttaattgg ctccctcaatc acaaaggctg agaccgggaa tgcctgaac 180
aacgctgtag aggtcttgaa tgtgatcttg tcactgggtg gatcatcaac aaagatctca 240
ttcagtgatc accaaaccaa gagttctttg gccttcacac cagtgaagctt ctttatctta 300
ccaacctcaa cataggcagt gatctcagtc gcataggaca cttgcctccc aatcttctca 360
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<210> 36
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<223> Proteína hipotética BAD46202

<220>
<221> misc_feature
<223> Clona 35

<220>
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<223> GenBank: EE253614

<400> 36
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ttgattcggc aggtgagttg ttacacactc cttagcggat ttcgacttcc atgaccaccg 120
tcctgctgtc ttaatcgacc aacacccttt gtgggggtcta ggtagcgcg cagttgggca 180
ccgtaacca gcttcgggt catcccgcat cgccagttct gcttaccaa aatggcccac 240
ttggagctct cgattccgtg gcacggctca acagagcagc cgcgccgtcc tacctattta 300
aagtttgaga ataggtcgag ggcgttgcg cccgatgcc tctaattcatt ggctttaccc 360
gatagaactc gcccgcgggc tccagctatc ctgagggaaa cttcggaggg aaccagctac 420
tagacggttc gattagtctt tcgcccctat acccaagtca gacgaacgat ttgcacgtca 480
gtatcgctgc gggcctccac cagagtttcc tctggcttcg ccccgctcag gcatagttca 540
ccatctttcg 550

<210> 37
<211> 127
<212> DNA
<213> Unknown

<220>
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<220>
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<223> Factor de elongación 1A

<220>
<221> misc_feature
<223> Clona 36

<220>
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<223> GenBank: EE253615

<400> 37
acaagcaaga aaccagcatt tattataacc atcccctggt gaaccgcca gcacgattca 60
cttctttctt tgtgcgccct tggtaacctt gggtccagtg ggatccttct tctccacgt 120

cttgatg

127

<210> 38
<211> 106
<212> DNA
<213> Unknown

<220>
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<220>
<221> misc_feature
<223> Proteína LEA 2

<220>
<221> misc_feature
<223> Clona 37

<220>
<221> misc_feature
<223> GenBank: EE253616

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ttgcatgcat gcacacacac gatgtctcta tttgttgtca ctgtgt 106

<210> 39
<211> 282
<212> DNA
<213> Unknown

<220>
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<220>
<221> misc_feature
<223> Proteína BURP dominio RD22

<220>
<221> misc_feature
<223> Clona 38

<220>
<221> misc_feature
<223> GenBank: EE253617

<400> 39
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ctcaatcttg cagtgggtggc tacccatgtg ctgctttgcc tcctcaactt tactggaagt 120

cgcttcttcc cactactcca attccaaacg ctatcactcg tacccttcgc cccgattggg 180

ttgaagagaa aggcacagca gtgaacgttg gaaagggagg ggtgaacgtg catgcaggaa 240

aaggaggtgg caccaacgtc aacgttggtg gaaaaggtgg ag 282

<210> 40
<211> 254
<212> DNA
<213> Unknown

<220>

<223> sintético

<220>
 <221> misc_feature
 <223> Proteína de transferencia de lípidos no específica

<220>
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 <223> Clona 39

<220>
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 <223> GenBank: EE253618.1

<400> 40
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 ataacattac aacatattaa aacctcttca atacaaataa aatatctcat ttgaagatta 120
 gaggggcata taagtggagc cctcgtcacc ttttgtctta ttcttgtagt attcaggata 180
 tatactcatt ctatactgag tagttttcag tgccttcttc ttcaaaactt gacagtagcg 240
 cagttggtgg aggt 254

<210> 41
 <211> 333
 <212> DNA
 <213> Unknown

<220>
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<220>
 <221> misc_feature
 <223> Proteína Poliubiquitina

<220>
 <221> misc_feature
 <223> Clona 40

<220>
 <221> misc_feature
 <223> GenBank: EE253619

<400> 41
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 tgggtggaatg cagatatttg tgaagactct gacagggaaa accattacct tggaggtgga 120
 gagctctgat acaattgata atgtgaaggc aaagattcag gacaaggagg gcatcccacc 180
 agatcagcag aggcttattt ttgctgggaa acaattggaa gatggtcgca ccttggcaga 240
 ctacaacatt cagaaggaat ccacctgca ccttgctcct cgccttcgcg gtggctttta 300
 agcttttcaa ttgtccaagt gttctttctt tgt 333

<210> 42
 <211> 238
 <212> DNA
 <213> Unknown

<220>

<223> sintético
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 <223> Metalotioneína tipo 2
 <220>
 <221> misc_feature
 <223> Clona 41
 <220>
 <221> misc_feature
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 caacggctgc tcaggctgca agatgcaccc agacttgagc tacacggagc agacacccac 120
 tgagactttg gtcattggag tggcacctgt taagggtcaa ttcgaagggt ctgaaatggg 180
 tgtttctggt gagaatgggt gctgcaagtg tggagataac tgccaatgcg acccctgt 238
 <210> 43
 <211> 444
 <212> DNA
 <213> Unknown
 <220>
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 <220>
 <221> misc_feature
 <223> Proteína desconocida
 <220>
 <221> misc_feature
 <223> Clona 42
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 <223> GenBank: EE253621
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 ttgggcatct ttagctcggg taaaaacaac ggcactgaga atgccttcaa gaactcggga 120
 ggaggtggac aagacttcga tcagggagag ttcaacacag gtgcacaagt tgccaagggt 180
 agatggacac cttgcgctgc caacaatggc accaaagatg ctttcaacaa ctctggtggg 240
 ggaaagcaga atttcggaac tgccaagttc aacactgggt gtaggttcta ttaagaacct 300
 ctactcttg agctgcttc caaatataca tagccctata aataatatgg gaataagaaa 360
 ataagtcctc actttgtggg cttttctgta agatgtatct catcatatgc taataattgt 420
 catgctggag ctcgagctct ttgt 444
 <210> 44
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 <212> DNA
 <213> Unknown

<220>
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<220>
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<223> Proteína factor de inicio de la traducción eIF-5A

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<223> Clona 43

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gaagagaaac ctcaaagctc gtgcgaggcc agttcttgat gatttgtaac cgttttttgc 180
ggatagttcc ggcttgctgg ggaaatgtct ttgatgctcc ctcttctgct tttgactcta 240
aatggtgttc ctggtccgac atggttat 268

<210> 45
<211> 346
<212> DNA
<213> Unknown

<220>
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<220>
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<223> Proteína intrínseca de tonoplasto, Aquaporina

<220>
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<223> Clona 44

<400> 45
gtacagttta aatagcaaaa gccaagacaa gatgctgagg acagcaaacg tcgaacaaag 60
aggaagcttg aaggaacaaa gaagaacaat aagtgatgtt tttaaggata ggtttcagag 120
gctgggacag cggcatagga accaatgaag acatctccat agattaaccc agccaaacct 180
cctccaatca atggaccaac ccagtagatc cagttatcag caaagtttcc actaaccaca 240
gctgggccga aagagcgagc tgggttcac gaaccaccac tgaatggacc agcagctagg 300
atgttagcac ccacaatgaa cccaatagca atgggtgcaa tggtag 346

<210> 46
<211> 27
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 <223> Para síntesis cDNA

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 tacggctgcg agaagacgac agaaggg 27

 <210> 47
 <211> 50
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 <210> 48
 <211> 45
 <212> DNA
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 <220>
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 <220>
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 <223> Oligo para AMV reverse transcriptasa

 <220>
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 <222> (44)..(45)
 <223> n is a, c, g, or t

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 ttttgtacaa gctttttttt tttttttttt tttttttttt ttttn 45

 <210> 49
 <211> 44
 <212> DNA
 <213> Unknown

 <220>
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 <220>
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 <223> Adaptador 5'

 <400> 49
 ctaatacgac tcactatagg gctcgagcgg ccgcccgggc aggt 44

 <210> 50
 <211> 10
 <212> DNA
 <213> Unknown

 <220>
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aaactataac aggagaaaag aaaaaacatg aataagtctc tcgtaaagaa aagcttataa 180

caggagaaaa gaaaaaacat gaatagaagt ctctggtaaa gaaaagctta gagaaaaatg 240

tttgtgatcc tctgctatgt agagttaaac aagaatgtat ataatagtga taagagggat 300

cgtttgactc ttcgatttgg ttactccttc acctaacatc atgccacgat ttagagttac 360

ctataggcag gttcatgaaa catgtgatga tgtcagggttc taggggaccg aacaaccact 420

taatactcat ataccttagt ttaatccaaa tacatgcaca tcatcatatc atttacgtaa 480

cattagatgt caccaccaag aaccatctcc tgctaacgtg tcacaccttg caaccatgcc 540

tgcattccaca tgtccacctc cactgctctt gctctccctt gcacccacgt gtcactctac 600

ccccctcttt ccccttttcca tttctcattc cattcactca tataaaccat caactcctgc 660

ttccactcct caacatctcc atatcatatc ctatacacag atcaaacttc caactcaaag 720

tgcaaatact gtcacaaaac caaacagatt ttca atg gca tcg agg caa cac gag 775

Met Ala Ser Arg Gln His Glu

1 5

gaa cga gct gag gca gct tcg aaa att gct gcc aaa gag ctt gaa caa 823

Glu Arg Ala Glu Ala Ala Ser Lys Ile Ala Ala Lys Glu Leu Glu Gln

10 15 20

gcc aac aga gag aga gat cgt gaa gat gtg ggc gtt gtg gac cag cta 871

Ala Asn Arg Glu Arg Asp Arg Glu Asp Val Gly Val Val Asp Gln Leu

25 30 35

aac aat gaa gaa aag cgt ggt gtg ata ggg tcc atg ttg agg gcg gtg 919

Asn Asn Glu Glu Lys Arg Gly Val Ile Gly Ser Met Leu Arg Ala Val

40 45 50 55

caa gaa gcg gtg gtt ggg aag aaa gat tca gtt cct gcg aaa tca tgc 967

Gln Glu Ala Val Val Gly Lys Lys Asp Ser Val Pro Ala Lys Ser Cys

60 65 70

acc aca gag gtg att cat gat gtt aat atc aaa cct gat gac gtg aca 1015

Thr Thr Glu Val Ile His Asp Val Asn Ile Lys Pro Asp Asp Val Thr

75 80 85

acc ggg gaa gtg aga gac ata tcc gtc gcc aag tct cct ggg atc tac 1063

Thr Gly Glu Val Arg Asp Ile Ser Val Ala Lys Ser Pro Gly Ile Tyr

90 95 100

gat tct cct gcc acg gac gaa acc ggt tcc aag gtt ggt gaa tat gca 1111

Asp Ser Pro Ala Thr Asp Glu Thr Gly Ser Lys Val Gly Glu Tyr Ala

105 110 115

gat tgt gct tct cag aag gcg aag gaa gca aag gat gca gca atg gca 1159

Asp Cys Ala Ser Gln Lys Ala Lys Glu Ala Lys Asp Ala Ala Met Ala

120 125 130 135

aaa gct ggg gac tac gca gat tat gct tct cag aag gcg aag gaa gcg 1207

Lys Ala Gly Asp Tyr Ala Asp Tyr Ala Ser Gln Lys Ala Lys Glu Ala

140 145 150

aag gac aag act ctg gag aag ggt ggg gag tat aag gac tat gct gct Lys Asp Lys Thr Leu Glu Lys Gly Gly Glu Tyr Lys Asp Tyr Ala Ala 155 160 165	1255
gag aag gct aag gaa gga aaa gat gct aca gtg aat aag ctg gga gag Glu Lys Ala Lys Glu Gly Lys Asp Ala Thr Val Asn Lys Leu Gly Glu 170 175 180	1303
tac aag gat tac act gcg gag aag acg aaa gaa ggg aag gac act gct Tyr Lys Asp Tyr Thr Ala Glu Lys Thr Lys Glu Gly Lys Asp Thr Ala 185 190 195	1351
atg gag aag ctt ggg gag ctg aag gat tct gct acg gaa gct gct aag Met Glu Lys Leu Gly Glu Leu Lys Asp Ser Ala Thr Glu Ala Ala Lys 200 205 210 215	1399
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gtc tcg gaa tcc gca gtg att gcc aag aac aag gca gcg gag acg gca Val Ser Glu Ser Ala Val Ile Ala Lys Asn Lys Ala Ala Glu Thr Ala 235 240 245	1495
gag acc gcg aag gat aga gcg gcg gag atg aag gat gcg gcg aag gac Glu Thr Ala Lys Asp Arg Ala Ala Glu Met Lys Asp Ala Ala Lys Asp 250 255 260	1543
aag gct gct gaa gct gcc gag gca aca aag aac aag acc gct gag acg Lys Ala Ala Glu Ala Ala Glu Ala Thr Lys Asn Lys Thr Ala Glu Thr 265 270 275	1591
act gag gca gca aag aat aag ggt agg ggg atg aag gac aag gct gca Thr Glu Ala Ala Lys Asn Lys Gly Arg Gly Met Lys Asp Lys Ala Ala 280 285 290 295	1639
gaa act gcg gag gca ata aag aac aag act gct gag atg act gag gca Glu Thr Ala Glu Ala Ile Lys Asn Lys Thr Ala Glu Met Thr Glu Ala 300 305 310	1687
gca aag aag aag gct gca gaa act gct gat gca aca aag aac aag act Ala Lys Lys Lys Ala Ala Glu Thr Ala Asp Ala Thr Lys Asn Lys Thr 315 320 325	1735
gct gaa acg acc gag gca gcg aag aat aag gct gcg gag atg agg gac Ala Glu Thr Thr Glu Ala Ala Lys Asn Lys Ala Ala Glu Met Arg Asp 330 335 340	1783
aag acc tgg gat gca act gaa gca gca aag aac aag acc tgg gaa gca Lys Thr Trp Asp Ala Thr Glu Ala Ala Lys Asn Lys Thr Trp Glu Ala 345 350 355	1831
act gag gca gca aag aac agg act gcg gag atg aag gac aag gct gca Thr Glu Ala Ala Lys Asn Arg Thr Ala Glu Met Lys Asp Lys Ala Ala 360 365 370 375	1879
gaa acc aca gaa gca gca aaa cag aaa act gca cag gca agg gac aaa Glu Thr Thr Glu Ala Ala Lys Gln Lys Thr Ala Gln Ala Arg Asp Lys 380 385 390	1927
acc aag gtctcactct ctcttttaaa tttgttgagc ctaacatgtc ttagaatctg Thr Lys	1983

ttcaagttct attgaagttt tcgtattcct tttttcaatc acaaggatca aaatcacttt	2043
aagaatggaa cacattatat gcatttgtga atttagggac taaaactttg atttggagca	2103
aatctggaag ccaaaacaca ttgcattggc accttatgtg ggtgcagttt tgtgtatatg	2163
tgactaattg tgaatgtttg agaaaaattg acaagttatg gatgtgatat gatgtgacac	2223
ag ggg aat gtg aga ggt gaa gat gaa gat gca agg agg aaa ctg gag Gly Asn Val Arg Gly Glu Asp Glu Asp Ala Arg Arg Lys Leu Glu 395 400 405	2270
gat cta aag cta caa ggg tac aaa gat ata tct gag ggg cgt gca gat Asp Leu Lys Leu Gln Gly Tyr Lys Asp Ile Ser Glu Gly Arg Ala Asp 410 415 420	2318
aag gtg gtg atg aaa gtg gaa gag act cga cca ggg gca ata gcg gat Lys Val Val Met Lys Val Glu Glu Thr Arg Pro Gly Ala Ile Ala Asp 425 430 435 440	2366
aca ctg aaa gcc gcg gat cag aat gcg gga cag acc ttc aac gat gtg Thr Leu Lys Ala Ala Asp Gln Asn Ala Gly Gln Thr Phe Asn Asp Val 445 450 455	2414
gga cgc ttc cat gat gag gag atc gta aaa aag aaa taatgtgata Gly Arg Phe His Asp Glu Glu Ile Val Lys Lys Lys 460 465	2460
cttagtatat agtatcatat tatgtgcaat gcacaatatc tatatatatg tgcagtttat	2520
gtagtgtgtt tggagtatat gttatgtgat caaaagttgt ttgtttaaat tttggttttc	2580
ttgttttgat tctcttcaaa atgtgtattg gttctagagg ttcatatggg gaccatggta	2640
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Ala Ala Lys Glu Leu Glu Gln Ala Asn Arg Glu Arg Asp Arg Glu Asp 20 25 30	
Val Gly Val Val Asp Gln Leu Asn Asn Glu Glu Lys Arg Gly Val Ile 35 40 45	
Gly Ser Met Leu Arg Ala Val Gln Glu Ala Val Val Gly Lys Lys Asp 50 55 60	
Ser Val Pro Ala Lys Ser Cys Thr Thr Glu Val Ile His Asp Val Asn 65 70 75 80	

Ile	Lys	Pro	Asp	Asp	Val	Thr	Thr	Gly	Glu	Val	Arg	Asp	Ile	Ser	Val	85	90	95
Ala	Lys	Ser	Pro	Gly	Ile	Tyr	Asp	Ser	Pro	Ala	Thr	Asp	Glu	Thr	Gly	100	105	110
Ser	Lys	Val	Gly	Glu	Tyr	Ala	Asp	Cys	Ala	Ser	Gln	Lys	Ala	Lys	Glu	115	120	125
Ala	Lys	Asp	Ala	Ala	Met	Ala	Lys	Ala	Gly	Asp	Tyr	Ala	Asp	Tyr	Ala	130	135	140
Ser	Gln	Lys	Ala	Lys	Glu	Ala	Lys	Asp	Lys	Thr	Leu	Glu	Lys	Gly	Gly	145	150	155
Glu	Tyr	Lys	Asp	Tyr	Ala	Ala	Glu	Lys	Ala	Lys	Glu	Gly	Lys	Asp	Ala	165	170	175
Thr	Val	Asn	Lys	Leu	Gly	Glu	Tyr	Lys	Asp	Tyr	Thr	Ala	Glu	Lys	Thr	180	185	190
Lys	Glu	Gly	Lys	Asp	Thr	Ala	Met	Glu	Lys	Leu	Gly	Glu	Leu	Lys	Asp	195	200	205
Ser	Ala	Thr	Glu	Ala	Ala	Lys	Lys	Ala	Val	Glu	Tyr	Leu	Ser	Gly	Lys	210	215	220
Thr	Glu	Glu	Thr	Lys	Glu	Lys	Val	Ser	Glu	Ser	Ala	Val	Ile	Ala	Lys	225	230	235
Asn	Lys	Ala	Ala	Glu	Thr	Ala	Glu	Thr	Ala	Lys	Asp	Arg	Ala	Ala	Glu	245	250	255
Met	Lys	Asp	Ala	Ala	Lys	Asp	Lys	Ala	Ala	Glu	Ala	Ala	Glu	Ala	Thr	260	265	270
Lys	Asn	Lys	Thr	Ala	Glu	Thr	Thr	Glu	Ala	Ala	Lys	Asn	Lys	Gly	Arg	275	280	285
Gly	Met	Lys	Asp	Lys	Ala	Ala	Glu	Thr	Ala	Glu	Ala	Ile	Lys	Asn	Lys	290	295	300
Thr	Ala	Glu	Met	Thr	Glu	Ala	Ala	Lys	Lys	Lys	Ala	Ala	Glu	Thr	Ala	305	310	315
Asp	Ala	Thr	Lys	Asn	Lys	Thr	Ala	Glu	Thr	Thr	Glu	Ala	Ala	Lys	Asn	325	330	335
Lys	Ala	Ala	Glu	Met	Arg	Asp	Lys	Thr	Trp	Asp	Ala	Thr	Glu	Ala	Ala	340	345	350
Lys	Asn	Lys	Thr	Trp	Glu	Ala	Thr	Glu	Ala	Ala	Lys	Asn	Arg	Thr	Ala	355	360	365
Glu	Met	Lys	Asp	Lys	Ala	Ala	Glu	Thr	Thr	Glu	Ala	Ala	Lys	Gln	Lys	370	375	380
Thr	Ala	Gln	Ala	Arg	Asp	Lys	Thr	Lys	Gly	Asn	Val	Arg	Gly	Glu	Asp	385	390	395
Glu	Asp	Ala	Arg	Arg	Lys	Leu	Glu	Asp	Leu	Lys	Leu	Gln	Gly	Tyr	Lys	405	410	415
Asp	Ile	Ser	Glu	Gly	Arg	Ala	Asp	Lys	Val	Val	Met	Lys	Val	Glu	Glu			

420						425						430					
Thr	Arg	Pro	Gly	Ala	Ile	Ala	Asp	Thr	Leu	Lys	Ala	Ala	Asp	Gln	Asn		
435						440						445					
Ala	Gly	Gln	Thr	Phe	Asn	Asp	Val	Gly	Arg	Phe	His	Asp	Glu	Glu	Ile		
450						455						460					
Val	Lys	Lys	Lys														
465																	