

SEQUENCE LISTING

<110> Monsanto Technology LLC
 <120> PLANT REGULATORY ELEMENTS AND USES THEREOF
 <130> MONS:417WO
 <150> US 62/306790
 <151> 2016-03-11
 <160> 18
 <170> PatentIn version 3.5
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 <212> DNA
 <213> Cucumis melo
 <220>
 <221> misc_feature
 <222> (1)..(2001)
 <223> EXP sequence derived from a Cucumis melo putative Ferredoxin 2 protein gene comprised of a promoter operably linked 5' to its native leader.

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aaattaaaaat caatataaga taatttagta aataaagacg acttaaatta tcatttaa	480
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gaaatttaaa gagacaacgt gagtctaaat ctaacttatt atcgatatac attttcatca	600
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gaaacctcat gtgtcaattc actcaaactt gaaaagattc atccatttca actcctctct	720
atccattact aaccaaagca aaaattcaat gagagcagat tgaagtttcc acccttgtct	780

taagaagaat gtctacacaa tgtcctaatt tttaatgtag tgcgttttta ttagttacaa	840
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actcacaacc acacgctctc tatttcactc tgcacgttat agccacacga cccaaatatc	1920
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aacacaaaaa caagaagaaa a	2001

<210> 2
 <211> 1936
 <212> DNA
 <213> Cucumis melo

<220>
 <221> misc_feature
 <222> (1)..(1936)
 <223> Promoter sequence derived from a Cucumis melo putative Ferredoxin
 2 protein gene.

<400> 2

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aaattaaaa caatataaga taatttagta aataaagacg acttaaatta tcatttaaat	480
atatcaatag tttcactctc actttacaat tgcagaattc aaaataataa taataaaaaa	540
gaaatttaaa gagacaacgt gagtctaaat ctaacttatt atcgatatac attttcatca	600
acatatgtta aagactaaaa attcaatgat tcgaattttt gctcgtccta tcctactaaa	660
gaaacctcat gtgtcaattc actcaaactc gaaaagattc atccatttca actcctctct	720
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gatatgttat ttagactttt ttaaactgct aattcaaatt gataagaaag ttagaccgca	1200
aggattttat agtacaatag gattggagga atttgaatca caagctcaa agtcacatta	1260
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aacaaaatgg tttatgaagc cattagtact ttaagcggct gttgttcata ttttgaaacc	1800
aaatctttgg aaggataaga acccacaacc attaccattc attgccaaga taaggcctta	1860
actcacaacc acacgctctc tatttcactc tgcacgttat agccacacga cccaaatatc	1920
ctctttaaaa aaccct	1936

<210> 3
 <211> 65
 <212> DNA
 <213> Cucumis melo

<220>
 <221> misc_feature
 <222> (1)..(65)
 <223> Leader sequence derived from a Cucumis melo putative Ferredoxin 2 protein gene.

<400> 3	
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gaaaa	65

<210> 4
 <211> 2001
 <212> DNA
 <213> Cucumis melo

<220>
 <221> misc_feature
 <222> (1)..(2001)
 <223> EXP sequence derived from a Cucumis melo chlorophyll a-b binding protein 13 gene comprised of a promoter operably linked 5' to its native leader.

<400> 4	
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tttgttctgt ttttcccagc gaatgaacta tccatacgtc gtcgtttgta tagccatgat	180
ccatgaagcg ctctaattac caatcatttt ttctttcttg gaattgatca agttacaaat	240
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tttctaaaag attgtatcca agaagtaaaa tttacatgga aaataaaatg cctataaatt	360
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tttgaaattg aaatttttat gaatatgtgg atttagtccc tcaattctca aattaaccat	1080
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aaaaattaaa atcatccatt ttgttaaatt aaaatttgaa gaaatttata ggatgcgtaa	1500
gaattgatgc cttgttaatt ttcaaatata attatagtaa aaattcttaa ttagtttact	1560
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aatctttaga aacaatatga ttggctaact aagccctctc attacccac aaaatttctc	1860
atatctttca ctcttcacca ctcatctcct cgtttcctca taatattccc ccacttcac	1920
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accacagagc ttcaagtacc c

2001

<210> 5
<211> 1899
<212> DNA
<213> Cucumis melo

<220>
<221> misc_feature
<222> (1)..(1899)
<223> Promoter sequence derived from a Cucumis melo chlorophyll a-b binding protein 13 gene.

<400> 5
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tttgttctgt ttttcccagc gaatgaacta tccatacgtc gtcgtttgta tagccatgat 180
ccatgaagcg ctctaattac caatcatttt ttctttcttg gaattgatca agttacaaat 240
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cccaagtaca tcatagattg gctttcaatt ccaaattcat catggtatat ttttaggtgc 840
aaactattgt cgtagattta atcccctagt tttgttgatt ttttaaaata gtactttcaa 900
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cttcacaaga gtgagaaaca gagatgggag ggagaaaaat ggaaagataa aaaaagtatt 1140

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aaaaattaaa atcatccatt ttgttaaatt aaaatttgaa gaaatttata ggatgcgtaa	1500
gaattgatgc cttgttaatt ttcaaatata attatagtaa aaattcttaa ttagtttact	1560
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caagtggata tactaacaaa agttcaagat cttaaacttt aagtgaatta attttgacat	1680
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aaagaaaagg agggatataga taaaatgtgg atagaaagag atgagttgta gatgcaaaaa	1800
aatctttaga aacaatatga ttggctaact aagccctctc attacccac aaaatttctc	1860
atatctttca ctcttcacca ctcatctcct cgtttcctc	1899

<210> 6
 <211> 102
 <212> DNA
 <213> Cucumis melo

<220>
 <221> misc_feature
 <222> (1)..(102)
 <223> Leader sequence derived from a Cucumis melo chlorophyll a-b binding protein 13 gene.

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tgttctttct ctctactctc aaccacagag cttcaagtac cc	102

<210> 7
 <211> 1014
 <212> DNA
 <213> Cucumis melo

<220>
 <221> misc_feature
 <222> (1)..(1014)
 <223> EXP sequence derived from a Cucumis melo B-box zinc finger

protein 24-like gene comprised of a promoter operably linked 5' to its native leader.

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ttctcttata acttggaat ttagataaca atgatgcaaa ccgcaaaaga gtatatacta      180
aacattgaat aaactattag ctttaacttc taaaatcagt ggttggaataaaa aaaacttcca      240
cttacattta cgtgaaaagc gtcaaaatta agaaaaatca tttgtttaca tcacacataa      300
ataattctaa gcactctttt ttcactatta gattagagaa taccagaaaa aaatttgatt      360
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aaaccaacgg agcttcacag ccacacaaat ggcctcctct cttttccgcc ttgttgtctc      720
caccatcttt cttgatattg atttcctga atcctcaacc cttatcccct caccacacct      780
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ctgttctact ggcggtttta tttcatgggt tcttcttgat cttggagtag gaaacaggga      960
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<211> 815
<212> DNA
<213> Cucumis melo
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<220>
<221> misc_feature
<222> (1)..(815)
<223> Promoter sequence derived from a Cucumis melo B-box zinc finger
protein 24-like gene.
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ttctcttata acttggaat ttagataaca atgatgcaaa ccgcaaaaga gtatatacta	180
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cttacattta cgtgaaaagc gtcaaaatta agaaaaatca tttgttaca tcacacataa	300
ataattctaa gcactctttt ttactatta gattagagaa taccagaaaa aaatttgatt	360
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aaaccaacgg agcttcacag ccacacaaat ggcctcctct cttttccgcc ttgttgtctc	720
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<210> 9
 <211> 199
 <212> DNA
 <213> Cucumis melo

<220>
 <221> misc_feature
 <222> (1)..(199)
 <223> Leader sequence derived from a Cucumis melo B-box zinc finger protein 24-like gene.

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ggttgttcag agggagaag	199

<210> 10
 <211> 1887
 <212> DNA
 <213> Medicago truncatula

<220>

<221> misc_feature
 <222> (1)..(1887)
 <223> EXP sequence derived from a Medicago truncatula light harvesting complex protein b2 gene comprised of a promoter operably linked 5' to its native leader.

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<400> 10
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acagggtggtt taaattttga tctgaatgag acaatatttg catgaagtaa agtttagatt      180
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ataaaattaa ttttcacatg ttttaagtaat ctcaattgaa atggatttta ttccatcatt      360
aattctaaca tgaaattata tgtagttttt aactccaaac ataatttctc acttgtccac      420
taacatatta attaacattg tcattccaaa agaaaaacaa aactgaatag aggtggagat      480
caacatgtga cttgaattat acatgtacgg ttgagaatta tattaataat ctaaagttgg      540
ggtcaacttg tgaaatagat tctcttcatt gtattttttt cacatttgat attatatagg      600
atagttgtga attgtgaaat tagataacca cgtgagccaa ttttgtaatt tagttgggat      660
taactgccac cttgtgttct tgaggttgaa cagtttacag ccaagtcttc ctttgcctgt      720
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aaggataagt gttctattca atacgcgtaa gaaaagaatg agcagttcag atcaaatcga     1140
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acattagtct gtaattcttc gggttattca catttcattt gatggtcaga ggcaaattga     1260
aagctaagca gtggtaattc taaagattcc cccgggaaaa aatagaaatg tctcctacgt     1320
tacctatact atgtgtaata ttttaatttat tttgtcacat tgtatcaaat tagtttctca     1380
cattatgtac atttcaaaat gattcattaa attgcaatta aattcaccca tccgtttaac     1440

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ttctgtatth ctctcagctt tgggtggacct aatttccttg gctcacattc acctctccaa	1620
aacatctaag caaccagatc aatgcatcca catggcacia agagagccac aatatcacta	1680
caaaatataa gcttggaat ccacatacta attcaccacc aataagatgt tgctgacttg	1740
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caaacatcaa gaaacctcaa cgccctc	1887

<210> 11
 <211> 1837
 <212> DNA
 <213> *Medicago truncatula*

<220>
 <221> misc_feature
 <222> (1)..(1837)
 <223> Promoter sequence derived from a *Medicago truncatula* light harvesting complex protein b2 gene.

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acaggtgggt taaattttga tctgaatgag acaatatttg catgaagtaa agtttagatt	180
tcaaatatgc atacttaatg tgtctattgt gatatttaag gcatcattca tctctcttgc	240
ctcttgccct cggtatatat gtatcggacc ataaaggga ccaaaaatga tttcagatac	300
ataaaaattaa ttttcacatg ttttaagtaat ctcaattgaa atggatttta ttccatcatt	360
aattctaaca tgaaattata ttagtthttt aactccaaac ataatttctc acttgtccac	420
taacatatta attaacattg tcattccaaa agaaaaacia aactgaatag aggtggagat	480
caacatgtga cttgaattat acatgtacgg ttgagaatta tattaataat ctaaagttgg	540
ggtcaacttg tgaaatagat tctcttcatt gtattttttt cacatttgat attatatagg	600
atagttgtga attgtgaaat tagataacca cgtgagccaa ttttgtaatt tagttgggat	660
taactgccac cttgtgttct tgagggtgaa cagtttacag ccaagtcttc ctttgcctgt	720
ttgtcttgta catcttcata ttcacgtggg ttaagccact tattttcgtg ttttttttct	780

tctcttttct cttcaacata tagttgtaat aatagataat atagggtttg atatgttttt	840
agttcttata gtgtgtttta gcctcacatt tttttctttt cattgaccaa cagcatacac	900
ttttttttgt gtatatttta gagactaaag tgcaatgaaa tcttatttat atggaaataa	960
aaaaaatgag catttttttg ttagtgaata tgtatgcagg atttgaaaaa ggaatgagat	1020
tcggagcctg ttcttttcat gactcctctt aattgagaca tgaaattcaa tgcttgacgt	1080
aaggataagt gttctattca atacgcgtaa gaaaagaatg agcagttcag atcaaatcga	1140
actttttatt cttgtaattg taatgttatt tttcgggtca cacaattaag ttttgtttgc	1200
acattagtct gtaattcttc gggttattca catttcattt gatggtcaga ggcaaattga	1260
aagctaagca gtggtaatc taaagattcc cccgggaaaa aatagaaatg tctcctacgt	1320
tacctatact atgtgtaata ttttaatttat tttgtcacat tgtatcaaat tagttttctca	1380
cattatgtac atttcaaaat gattcattaa attgcaatta aattcaccca tccgtttaac	1440
attaagttgg taatttctga gatgtatttg aaattattat gtaaacgaga tgcatttgat	1500
agcaaaataa aaagatgttg ctgtttttca ctcaaactcc caatccaaac ctttccaagt	1560
ttctgtattt ctctcagctt tgggtggacct aatttccttg gctcacattc acctctcaa	1620
aacatctaag caaccagatc aatgcatcca catggcacia agagagccac aatatcacta	1680
caaaatataa gcttggaat ccacatacta attcaccacc aataagatgt tgctgacttg	1740
tgcatatcct aatctacaat atcttatgat ttccaccgtg gccactcca acatttctat	1800
aaacctttgt atcctttctt cattcttcac aacaaca	1837

<210> 12
 <211> 50
 <212> DNA
 <213> Medicago truncatula

<220>
 <221> misc_feature
 <222> (1)..(50)
 <223> Leader sequence derived from a Medicago truncatula light
 harvesting complex protein b2 gene.

<400> 12	
ctagcttata ccactaaaga gaacaaacat caagaaacct caacgcctc	50

<210> 13

<211> 594
 <212> DNA
 <213> Medicago truncatula

<220>
 <221> misc_feature
 <222> (1)..(594)
 <223> EXP sequence derived from a Medicago truncatula photosystem II chloroplast precursor gene comprised of a promoter operably linked 5' to its native leader.

<400> 13
 ttactgttgg ttttggctaa atttgttatg ttgtgctatc tgttgagaaa aatgttgggt 60
 agcttatatt actccatatt agataagcct gacctcactc ccattagaag gaaacaaata 120
 tattaaagta caatattcat ttttttttgg gaatagatta attttgatgc attttcggtg 180
 taaaacattt tacatgctca acaaattctca aaccatcttt tgtatgactt tttggattta 240
 agatagatat gataaaagtc aaatatttta atgatccaat agttatcatt gattgtcttg 300
 tacaaaattt ttacactgcc ggtacctatt agcatctttc ttatccttta aattcacatt 360
 aattaacaag catcaacaca agccccccaa aaccatttct agcattatca actattcaac 420
 gtggcattaa cttattgggtc atatcattaa tgagataaga taatgtatgg tcctacccta 480
 ccacaaaagc tcccattttt gtatgattta cattccatat attcattctt ccacttgccc 540
 acaatagaag ctatcacata gagactagtt cagaatccag atcacattgt agaa 594

<210> 14
 <211> 552
 <212> DNA
 <213> Medicago truncatula

<220>
 <221> misc_feature
 <222> (1)..(552)
 <223> Promoter sequence derived from a Medicago truncatula photosystem II chloroplast precursor gene.

<400> 14
 ttactgttgg ttttggctaa atttgttatg ttgtgctatc tgttgagaaa aatgttgggt 60
 agcttatatt actccatatt agataagcct gacctcactc ccattagaag gaaacaaata 120
 tattaaagta caatattcat ttttttttgg gaatagatta attttgatgc attttcggtg 180
 taaaacattt tacatgctca acaaattctca aaccatcttt tgtatgactt tttggattta 240

agatagatat gataaaagtc aaatatttta atgatccaat agttatcatt gattgtcttg	300
tacaaaattt ttacactgcc ggtacctatt agcatctttc ttatccttta aattcacatt	360
aattaacaag catcaacaca agcccccaa aaccatttct agcattatca actattcaac	420
gtggcattaa cttattggtc atatcattaa tgagataaga taatgtatgg tcctacccta	480
ccacaaaagc tcccattttt gtatgattta cattccatat attcattctt ccacttgccc	540
acaatagaag ct	552

<210> 15
 <211> 42
 <212> DNA
 <213> Medicago truncatula

<220>
 <221> misc_feature
 <222> (1)..(42)
 <223> Leader sequence derived from a Medicago truncatula photosystem II
 chloroplast precursor gene.

<400> 15	
atcacataga gactagttca gaatccagat cacattgtag aa	42

<210> 16
 <211> 1797
 <212> DNA
 <213> Medicago truncatula

<220>
 <221> misc_feature
 <222> (1)..(1797)
 <223> Enhancer sequence derived from a Medicago truncatula light
 harvesting complex protein b2 gene.

<400> 16	
agtagtagta ggtgttgaca tttctttttt ttttgaacaa gaggagtga catttctaag	60
gtggctttgt taccacttga tagactttta gaatgtatgt caataagaat agaaaagaac	120
acaggtgggt taaattttga tctgaatgag acaatatttg catgaagtaa agtttagatt	180
tcaaatatgc atacttaatg tgtctattgt gatatttaag gcatcattca tctctcttgc	240
ctcttgccct cggtatatat gtatcggacc ataaaggga ccaaaaatga tttcagatac	300
ataaaattaa ttttcacatg ttttaagtaat ctcaattgaa atggatttta ttccatcatt	360
aattctaaca tgaaattata thtagttttt aactccaaac ataatttctc acttgtccac	420

taacatatta	attaacattg	tcattccaaa	agaaaaacaa	aactgaatag	aggtggagat	480
caacatgtga	cttgaattat	acatgtacgg	ttgagaatta	tattaaaaat	ctaaagttgg	540
ggtcaacttg	tgaaatagat	tctcttcatt	gtatTTTTTT	cacatttgat	attatatagg	600
atagttgtga	attgtgaaat	tagataacca	cgtgagccaa	ttttgtaatt	tagttgggat	660
taactgccac	cttgtgttct	tgaggttgaa	cagtttacag	ccaagtcttc	ctttgcctgt	720
ttgtcttgta	catcttcata	ttcacgtggg	ttaagccact	tattttcgtg	TTTTTTTTTc	780
tctcttttct	cttcaacata	tagttgtaat	aatagataat	atagggtttg	atatgttttt	840
agttcttata	gtgtgtttta	gcctcacatt	tttttctttt	cattgaccaa	cagcatacac	900
TTTTTTTTgt	gtatatTTTt	gagactaaag	tgcaatgaaa	tcttatttat	atggaaataa	960
aaaaaatgag	catttttttg	ttagtgaata	tgtatgcagg	atttgaaaaa	ggaatgagat	1020
tcggagcctg	ttcttttcat	gactcctctt	aattgagaca	tgaaattcaa	tgcttgacgt	1080
aaggataagt	gttctattca	atacgcgtaa	gaaaagaatg	agcagttcag	atcaaatcga	1140
actttttatt	cttgtaattg	taatgttatt	tttcgggtca	cacaattaag	ttttgtttgc	1200
acattagtct	gtaattcttc	gggttattca	catttcattt	gatggtcaga	ggcaaattga	1260
aagctaagca	gtggtaattc	taaagattcc	cccgggaaaa	aatagaaatg	tctcctacgt	1320
tacctatact	atgtgtaata	tttaatttat	tttgtcacat	tgtatcaaat	tagttttctca	1380
cattatgtac	atttcaaaat	gattcattaa	attgcaatta	aattcaccca	tccgtttaac	1440
attaagttgg	taatttctga	gatgtatttg	aaattattat	gtaaacgaga	tgcatTTTgat	1500
agcaaaataa	aaagatgttg	ctgtttttca	ctcaaactcc	caatccaaac	ccttccaagt	1560
ttctgtattt	ctctcagctt	tggtggacct	aatttccttg	gtcacattc	acctctccaa	1620
aacatctaag	caaccagatc	aatgcatcca	catggcacia	agagagccac	aatatcacta	1680
caaaatataa	gcttggggaat	ccacatacta	attcaccacc	aataagatgt	tgctgacttg	1740
tgcatatcct	aatctacaat	atcttatgat	ttccaccgtg	gccactccca	acacttc	1797

<210> 17

<211> 2001

<212> DNA

<213> Artificial

<220>

<223> Coding sequence for beta-glucuronidase (GUS) with a processable

intron.

<400> 17

atggtccgtc ctgtagaaac cccaacccgt gaaatcaaaa aactcgacgg cctgtgggca	60
ttcagtctgg atcgcgaaaa ctgtggaatt gatcagcggtt ggtgggaaag cgcgttacaa	120
gaaagccggg caattgctgt gccaggcagt tttaacgata agttcgccga tgcagatatt	180
cgtaattatg cgggcaacgt ctggtatcag cgcgaagtct ttataccgaa aggttgggca	240
ggccagcgta tcgtgctgcg tttcgatgcg gtcactcatt acggcaaagt gtgggtcaat	300
aatcaggaag tgatggagca tcagggcggc tatacgccat ttgaagccga tgtcacgccg	360
tatgttattg ccgggaaaag tgtacgtaag tttctgcttc tacctttgat atatatataa	420
taattatcat taattagtag taatataata tttcaaatat ttttttcaaa ataaaagaat	480
gtagtatata gcaattgctt ttctgtagtt tataagtgtg tatattttaa tttataactt	540
ttctaataata tgacaaaaat ttgttgatgt gcaggtatca ccgtttgtgt gaacaacgaa	600
ctgaactggc agactatccc gccgggaatg gtgattaccg acgaaaacgg caagaaaaag	660
cagtcttact tccatgattt ctttaactat gccggaatcc atcgcagcgt aatgctctac	720
accacgccga acacctgggt ggacgatata accgtgggtga cgcattgtgc gcaagactgt	780
aaccacgcgt ctgttgactg gcaggtgggt gccaatgggt atgtcagcgt tgaactgcgt	840
gatgcggatc aacaggtgggt tgcaactgga caaggcacta gcgggacttt gcaagtgggt	900
aatccgcacc tctggcaacc ggggtgaaggt tatctctatg aactgtgcgt cacagccaaa	960
agccagacag agtgtgatata ctacccgctt cgcgtcggca tccggtcagt ggcagtgaag	1020
ggcgaacagt tcctgattaa ccacaaaccg ttctacttta ctggctttgg tcgtcatgaa	1080
gatgcggact tgcgtggcaa aggattcgat aacgtgctga tgggtgcacga ccacgcatta	1140
atggactgga ttggggccaa ctctaccgt acctcgcatt acccttacgc tgaagagatg	1200
ctcgactggg cagatgaaca tggcatcgtg gtgattgatg aaactgctgc tgtcggcttt	1260
aacctctctt taggcattgg tttcgaagcg ggcaacaagc cgaaagaact gtacagcgaa	1320
gaggcagtca acggggaaac tcagcaagcg cacttacagg cgattaaaga gctgatagcg	1380
cgtgacaaaa accaccaag cgtgggtgatg tggagtattg ccaacgaacc ggatacccg	1440
ccgcaagggtg cacgggaata tttcgcgcca ctggcggaag caacgcgtaa actcgacccg	1500
acggtgccga tcacctgcgt caatgtaatg ttctgcgacg ctacaccga taccatcagc	1560

gatctctttg atgtgctgtg cctgaaccgt tattacggat ggtatgtcca aagcggcgat	1620
ttggaaacgg cagagaaggt actggaaaaa gaacttctgg cctggcagga gaaactgcat	1680
cagccgatta tcatcaccga atacggcgtg gatacgttag ccgggctgca ctcaatgtac	1740
accgacatgt ggagtgaaga gtatcagtgt gcatggctgg atatgtatca ccgcgtcttt	1800
gatcgcgtca gcgccgtcgt cggatgaacag gtatggaatt tcgccgattt tgcgacctcg	1860
caaggcatat tgcgcgttgg cggtaacaag aaagggatct tcactcgcga ccgcaaaccg	1920
aagtcggcgg cttttctgct gcaaaaacgc tggactggca tgaacttcgg tgaaaaaccg	1980
cagcagggag gcaaacaatg a	2001

<210> 18
 <211> 315
 <212> DNA
 <213> *Gossypium barbadense*

<220>
 <221> misc_feature
 <222> (1)..(315)
 <223> 3' UTR sequence derived from the *Gossypium barbadense* E6 gene.

<400> 18	
tgatcacctg tcgtacagta tttctacatt tgatgtgtga tttgtgaaga acatcaaaca	60
aaacaagcac tggctttaat atgatgataa gtattatggt aattaattaa ttggcaaaaa	120
caacaatgaa gctaaaattt tattttattga gccttgcggt taatttcttg tgatgatctt	180
tttttttatt ttctaattat atatagtttc ctttgctttg aaatgctaaa ggtttgagag	240
agttatgctc ttttttctt cctctttctt ttttaacttt atcatacaaa ttttgaataa	300
aaatgtgagt acatt	315