

Table S1. Functions of Identified cis-regulatory element

No	Category	Name	Function
1	Hormone Responsiveness	ERE	Ethylene Responsive element
2		GARE-MOTIF	Gibberellin –responsive element
3		ABRE	Abscisic acid responsive element
4	Light Responsiveness	ACA-motif	part of gap A in (gapA-CMA1) involved With light responsiveness
5		Box 4	part of a conserved DNA module Involved in Light Responsiveness.
6		GA-motif	part of a light responsive element
7		GT1-motif	Light Responsive element
8	Stress Responsiveness	TCT-motif	part of a light responsive element
9		LTR	cis-acting element involved in low- temperature responsiveness
10		MBY	Cis-element involved in drought- inducibility
11	Binding site	MBS	MYB binding site involved in drought- inducibility

TABLE S2: Gene primers used for qRT-PCR

Gene ID	Primers
qRT-PCR	
GhActin-F	TTGCAGACCGTATGAGCAAG
GhActin-R	ATCCTCCGATCCAGACACTG
Gh_D05G3876-F	CTTGGCACACCAACTGAATCTG
Gh_D05G3876-R	CATTCTATCAATCAGATCAAGAGCC
Overexpression	
Gh_D05G3876-F	CACGGGGGACTCTAGAATGGCCAACGTTGCTCCG
Gh_D05G3876-R	GATCGGGGAAATTCGAGCTCTTATCGAGCATAATCTGGATTCAGAGCTAAGG
VIGS	
Gh_D05G3876-F	ATGCCTGCAGACTAGTACACCAACTGAATCTGATCTTGGGT
Gh_D05G3876-R	AGACCTAGGGGCGCGCCGTTGCTGCTCAAAATCGAAATTAAATGGC
GFP	
Gh_D05G3876-F	GGACTCTAGAGGATCCATGGCCAACGTTGCTCCG
Gh_D05G3876-R	CTTTACTCATACTAGTTCGAGCATAATCTGGATTCAGAGCTAAGG
Y2H	
Gh_D05G3876-F	CCGCTGCAGGTCGACGGATCCATGGCCAACGTTGCTCCG
Gh_D05G3876-R	ATGGCCATGGAGGCCGAATTCTTATCGAGCATAATCTGGATTCAGA

TABLE S3: Stress Responsive Gene primers used for qRT-PCR

Gene	F (5'-3')	R (5'-3')
AtABF4	AACAACCTTAGGAGGTGGTGGTCAT	TGTAGCAGCTGGCGCAGAAGTCAT
AtCBL1	GAAATGAAACTGGCTGATGAAACCATAGAG	CTCGTGGCAATCTACTCGGTCTTAAACC
AtKIN1	AAATGTCAGAGACCAACAAGAA	CATACTTCAGTTCAGGCCGGTCT
AtERD15	CCAGAGCGAAATGGGGAAAC	ACAAAGGTACAGTACAGTGGTGGC
AtRD29A	CTGATCCCACCAAAGAAGAAACT	CTGATCCCACCAAAGAAGAAACT
AtSOS1	TCGTTTCAGCCAAATCAGAAAGT	TTTGCCTTGTGCTGCTTTCC