

**Table S1.** (A) Primers used for cloning in plant expression vector (pBI121) and RT-PCR analysis.

Primers	Forward Sequence	Reverse Sequence
Os10g38600	GTAGTGCAGGAAATGGCAGGAG	GAGTAAATTCAGTTGTTTGCGGCG

(B) Primers used for cloning in protein expression vector (pET SUMO)

Primers	Forward Sequence	Reverse Sequence
Os10g38600	ATGGCAGGAGGAGGAGGAGCA	TCAGTTGTTTGCGGCGGTAGTGG

(C) Primers used in the qRT-PCR gene expression studies to validate transcriptome analysis

S.No.	Gene ID	Gene description	Function	Primers
1	AT1G33760	ERF	RNA.regulation of transcription.AP2/EREBP, APETALA2/ethylene-responsive element binding protein family	F-GTTGTCCTACAGAGGCATTC R-GGAAAACCTGTCGACGAGTTC
2	AT4G31870	glutathione peroxidase 7	protein.degradation	F-GACCAAGCACAGCTCCAATC R-GCAACTTCTGGATGTCCTTC
3	AT5G66400	Dehydrin family protein	stress abiotic	F-CTACAGGTGGCCAAGGATACG R-CATTCCTCCCAAGCCACCAC
4	AT4G08040	ACS11 1-aminocyclopropane-1-carboxylate synthase 11	hormone metabolism.ethylene. synthesis-degradation.1-aminocyclopropane-1-carboxylate synthase	F-GGACAGGAGTAGAGATTGTTCC R-GTGGTAGAGGTTCCAAGTGG
5	AT5G22920	CHY-type/CTCH Y-type/RING-type Zinc finger	protein.degradation.u biquitin.E3.RING	F-GACGATGCAAGATTAGAGCAC R-GTTCTGTCTCACAAAGCGAGC

		protein		
6	AT4G17490	ERF6	RNA.regulation of transcription.AP2/ER EBP, APETALA2/ethylene -responsive element binding protein family	F-CGAACGATTCCCTTCACGTTCC R-CCTCTGTAATGCCTCTTCTCC
7	AT4G21440	MYB-like 102	RNA.regulation of transcription.MYB domain transcription factor family	F-CGATCTCCTCGATATCTCATCC R-CGAGTCATGATCCACCACAAG
8	AT3G01270	Pectate lyase family protein	cell wall.degradation.pectate lyases and polygalacturonases	F-CGATAAATGCTGGCGTTGC R-GTGACGTAGTGTTCCAGGTC
9	AT5G44300	Dormancy/auxin associated family protein	Development unspecified	F-GGTATCTCTTCCAGCGAGTC R-GGTCTCGTTGCTATACATCC
10	AT1G69260	ABI five binding protein	Protein targeting nucleus	F-CGATGCCTCTGTTTCGTGAAG R-GCCATTCTTCTCAAAGTCTGC
11	AT2G43140	bHLH	RNA.regulation of transcription.basic helix-loop-helix family (bHLH)	F-CTCTCCGGCTGGATTCTACG R-GCTTCAACCTCCGAGATTCCG