

Table S1 Primers used for qRT-PCR

Gene	Forward (5'-3')	Reverse(5'-3')
<i>CmGST1</i>	CCAAAAATGGGTGGTAAAA	TAAGATCCGCAAGGGTGAA
<i>CmGST2</i>	AGGAGGCGACATGGGTAG	TTATGACGGCGAAAAAGC
<i>CmGST3</i>	ACTTGGTTGGTCCTATTG	GTGGGTTGTACTTCTTGC
<i>CmGST4</i>	ATACGCAAACAAAGGAAC	TCAGCCATAGTGAACCTCG
<i>CmGST5</i>	TCATCCATTCGGTCAAGT	GTCCAGCTAAATACGTTGC
<i>CmGST6</i>	TTGGAGGGAGTTCTTGAC	CAACTAACATAGCCACAGA
<i>CmGST7</i>	GTTCCGCTTTCTTCTTTG	GTGTTCTGGTATGCCTTG
<i>CmGST8</i>	ATTAGCGGATCTTCATC	ACTAAGAGGGCAACAAT
<i>CmGST9</i>	TCCAGCGTTTGAGGATG	TTCCAACCATCGGCTTA
<i>CmGST10</i>	CTACATCCATCCACACAG	AGAGCGATCACACAATAC
<i>CmGST11</i>	TCAATGCACATTCACAAC	AGGAGATACTTTACGCT
<i>CmGST12</i>	GAGGCATACGCCGACAAG	CAACTAACATAGCCACAGA
<i>CmGST13</i>	GTTTGTGCCCATTAGTTT	CGGTTTGTATAGCCGATT
<i>CmGST14</i>	GTGGATGGAAGTGGA AAA	CATGCGCTAACATGTGGT
<i>CmGST15</i>	GAGGCATACGCCGACAAG	GAAGATCCGCCAATGTGA
<i>CmGST16</i>	ACTCTTCGTGTCCTGCTT	TCTAATACCACCATCCTC
<i>CmMYB6</i>	ATGGGGGAGTACAGAAAAATG	TCATAGTTGGTCCGAATTTA
<i>CmbHLH2</i>	GTGAAGGTGAAGGGTATTAGGGGG	CTCTTCAAACGTCCTTCACATACC
<i>CmActin</i>	CACCCCCAGAGAGAAAAATAC	ATCTGTTGGAAGGTGCTGAG
<i>NtCHS</i>	TTGTTCGAGCTTGTCTCTGC	AGCCCAGGAACATCTTTGAG
<i>NtCHI</i>	GTCAGGCCATTGAAAAGCTC	CTAATCGTCAATGCCCCAAC
<i>NtF3H</i>	CAAGGCATGTGTGGATATGG	TGTGTCGTTTCAGTCCAAGG
<i>NtDFR</i>	AACCAACAGTCAGGGGAATG	TTGGACATCGACAGTTCCAG
<i>NtANS</i>	TGGCGTTGAAGCTCATACTG	GGAATTAGGCACACACTTTGC
<i>NtUFGT</i>	GAGTGCATTGGATGCCTTTT	CCAGCTCCATTAGGTCCTTG
<i>NtAn1a</i>	ACCATTCTCGAACACCGAAG	TGCTAGGGCACAATGTGAAG

<i>NtAn1b</i>	CTTGAACACTTCTCAAACCGA	TGCTAGGGCACAATGTGAAG
<i>NtAn2</i>	AGGTGACACTATAGAATAAACCTCCACTTGG GTTTCCT	GTACGACTCACTATAGGGACCCCCTGAGTCC TGACTGTA
<i>NtActin</i>	AATGGAACTGGAATGGTCAAGGC	TGCCAGATCTTCTCCATGTCATCCCA

Table S2 Primers used for vector construction

	Forward (5'-3')	Reverse(5'-3')
CmGST1-SK	AGAACTAGT <u>GGATCC</u> ATGGTAGTTAAGGT ATATGG	GGTATCGATA <u>AAGCTT</u> TTAGCCCATTAGTATC ATAA
CmGST1-LUC	CAGCCCGGG <u>GGATCC</u> GCTTGTCCAAGTCA TGAGTG	CTTGAATTC <u>GAGCTC</u> GCTTGTCCAAGTCAT GAGTG
CmGST1-eGFP	ACGGGGGAC <u>GAGCTC</u> ATGGTAGTTAAGGT ATATGG	GCTCACCAT <u>GTCGAC</u> GCCCATTAGTATCATA ACTT

Note: Added restriction enzyme sites are underlined

Table S3 *Cis*-elements in promoter of *CmGST1*

Motif Name	Location in promoter	Sequence	Function
CGTCA-motif	-595	CGTCA	MeJA-responsiveness
MYB	-530, -1763	TAACCA	
GT1-motif	-193, -531, -1762	GGTTAA	light responsiveness
G-Box	-883, -1294, -1366 -949, -961, -1019, -1103, -1139,	CACGTT	light responsiveness

	-1163, -1175, -1211, -1235, -1246, -1282	TACGTG	
ABRE	-883, -949, -961, -1020, -1104, -1140, -1164, -1176, -1212, -1236, -1247, -1283, -1295, -1367	ACGTG	abscisic acid responsiveness
TGA- element	-1520	AACGAC	auxin-responsive element
ARE	-473, -636, -680, -1570	AAACCA	anaerobic induction
MYB-like sequence	-530, -1763	TAACCA	
GATA-motif	-1054	AAGATAAGATT	light responsive element
MYC	-75, -312, -1332, -1485, -1767	CATGTG CATTG	
