

Additional file 5. List of primer sequences used to PCR-amplify the soybean promoters.

Restriction sites incorporated in the forward and reverse primers are underlined. *F* forward primer, *R* reverse primer.

Promoter	Primer sequence (5'→3')
Gmubi1	F: CACCCTGCAGAACAAATTAGATGATACCCATTGCCCTTACG
Gmubi2	R: CACCCCATGGTACCTGTAGAGTCAACAATCACAAGATAAATCA F: CACCAAGCTTGGAAGGAGGCGCAGGATGGAGTACCAGTC
Gmubi3	R: CACCGCATGCTGGTACCTGTTCAATCACAAAAAAGAAACATC F: CACCCTGCAGTCCTTAAGTTGCAGCATTTAACACATCTCCTC
Gmubi4	R: CACCCCATGGTACCTGTGAGTCAACAATCACAGATAAATCAGAA F: CACCAAGCTTCAAGCAGAACACTGAGACATAGAGG
Gmubi5	R: CACCCCATGGTACCTACATATACAATACAGTCAACAAAATAAATGAA F: CACCAAGCTTGTTGTGACTTGATGCATTGTAAC
Gmubi6	R: CACCCCATGGTACCTACACATACAATACAGTCAACAAAAT F: CACCAAGCTTAGAAGTGTATTTCATACACTACTTTC
Gmubi7	R: CACCCCATGGTACCTATAAAACAAGATACGATAAAATTAATCACC F: CACCAAGCTTCATACCATTGAGATCCTTGTTGAGTG
Gmubi8	R: CACCGCATGCTGGTACCTGTTCAATCACAAACAGAACCAT F: CACCCTGCAGTCCCTAATTAATGTGATATTGGGAAAGATACG
Gmubi9	R: ATCTCCATGGCGAGATTGGGTATAATAAGCTTC F: CACCCTGCAGTCCATTATTCGGGATTTAGCAAATTG
Gmubi10	R: ATCTCCATGGTGAAAACGAGAATAATAGAGAGATATTTTAGTGGTGTAGG F: CACCAAGCTTGCCCCGCGAACTTAAAAATGTT
GmERF1	R: CACCCCATGGTGGCTAGCTAGGGTTTCTCTCAG F: CACCAAGCTTATCTATTTGATGTGTAACAACACC
GmERF2	R: GTTGCCATGGTTAAGGGATCTGAGTGATGAAAC F: CACCAAGCTTGAACCTAAATCCGTAGCTGTTG
GmERF3	R: CTTTCCATGGTTGGTTGTGAAATTGAGGCTTATAAGG F: CACCAAGCTTTAATCTCATGCACGCGAC
	R: TTTGCCATGGGATATTGAGAGGAGAAGGAGCTTTAG

GmERF4 F: CACCAAAGCTTCATAGACCATTTCTCCATCCTTTATC
R: TTTGCCATGGGATATTGAGGGGAGAAGAGAGCG

GmERF5 F: CACCAAAGCTTCGGACCAAACGGAGAAG
R: CCGTCCATGGCTTCGGTGTTCTTTTGTGGTC

GmERF6 F: CACCAAAGCTTATGAGCCATCCCCGTTC
R: TTAGCCATGGCTTAAGTTAGAAGCGCTTTTAGCTTG

GmERF7 F: CACCAAAGCTTGACCCAGTATACAGTGCATGCACAAAG
R: GAACCCATGGTCAACTCCTAATTTGAGTGTATGCAAAG

GmERF8^a F: CACCAAAGCTTATAACCCGACAAATATAACATGTATAGATTAGC
R: GAATCCATGGGTTAGAGTGTGTAAGGTAAGGGGAAACAG

GmERF9 F: CACCAAAGCTTATAACCCGACAAATATAACATGTATAGATTAGC
R: GAATCCATGGGTTAGAGTGTGTAAGGTAAGGGGAAACAG

GmERF10 F: CACCGCATGCATCATAGAACCCACCTTAATAATCTC
R: TTCGCCATGGCTTAAGTTAGAAAGCGCTTTTCGCTTC

^aGmERF8 was amplified using the same primers for GmERF9 amplification and it was further identified as a group IX ERF gene promoter.