

Supplemental Table 3. List of primers

Primers	Sequence (5' – 3')
Primers used for plasmids to express GSS1 and GSS2 in <i>E.coli</i>	
GSS1 F	<u>GGGTCGCGGATCC</u> ATGCATTCAACCAACATGGCGATTC
GSS1 R	<u>CGGCCGCAAGCTT</u> GTAGTTGAAGTACTTGGGGGC
GSS2 F	<u>GGGTCGCGGATCC</u> ATGGCGATTCTGCACCAAGTA
GSS2 R	<u>CGGCCGCAAGCTT</u> GCTATTCAGAGTCAGAGTAG
Primers of plasmids used for plant transformation	
GSS1 Sense F	<u>TCGATAAGCTTGGATCC</u> GCTACCCTCGAGAAGAAGGG
GSS1 Sense R	<u>ACGTTCTAGATTG</u> TAGTCTGGGGGAGTTCCG
GSS1 Antisense F	<u>TAGAGCGGCCGCTT</u> GTAGTCTGGGGGAGTTC
GSS1 Antisense R	<u>CGCGGCCCGGGG</u> GCTACCCTCGAGAAGAAGGG
Primers used for Real-time PCR	
GSS1 F	ACTACGAATACAACGCTCAGGA
GSS1 R	CAATGATGGTGGTGGACTTCT
GSS2 F	ACTACGAATACAACGCTCAATCG
GSS2 R	CAATGATGGTGGTGGACTTCT
Primers of plasmids used for silkworm transformation	
HR5IE1 homologous recombination F	TGATGACGTTCTCGGAGGAGGCCATGGTGGCGACCGGTTTGCGCTTCTTC
HR5IE1 homologous recombination R	GCGGCCGCTCTAGAACTAGTGGATCCCATTGCTTGTCATTTATTAATTTG

Primers	Sequence (5' – 3')
GSS1 homologous recombination F	AGTTGACACTGGCGGCGACAAGAGCTAGCATGGCGATTCTGCATCAAGCT
GSS1 homologous recombination R	TCGATACCGTCGACCTCGAGGGGGGGCCCTTCGGAGTCGGAGTAAGGTT
GSS2 homologous recombination F	GTTGACACTGGCGGCGACAAGAGCTAGCATGGCGATTCTGCACCAAGTA
GSS2 homologous recombination R	TCGATACCGTCGACCTCGAGGGGGGGCCCTTCAGAGTCAGAGTAGGGTTCG
