

**Table S1.** The primer sequences used in the quantitative RT-PCR test to analyze the relative expression levels of stress-and heat-responsive genes, as well as flower structure-controlling genes.

Target gene	Sequence (5'-3')		Reference
<i>SIHSFA1a</i>	Forward	GTCGAGGTTGGGAAATTTGG	
	Reverse	TGTTGTCTGAGCCTAACCAG	
<i>SIHSFA1b</i>	Forward	CAACAACTTCTCCAGCTTCG	
	Reverse	TAAGAAATCCCTCGTTCGCA	
<i>SIHSFA2</i>	Forward	CCAGTGCTACAGGAAGTGAT	
	Reverse	TTCATTGTCCATTGCAGCAG	
<i>SIHSFB1</i>	Forward	GTGGTGGACGTGGTAAATG	
	Reverse	TACTCTGCTCCAACCTCAAC	
<i>SIHSFA4a</i>	Forward	TCCTTAACCAACGTGTCCAA	
	Reverse	TGGCAACCTTCTCTTCCTTT	
<i>SIHSFA5</i>	Forward	CACAGTCATAGTCACCCTCC	
	Reverse	TGGAGTTTTGCAGCAGATTG	
<i>SIHSP70</i>	Forward	TGCCCAAAGATGAGGTTGAT	
	Reverse	ATTCTGCTTGATTCTTCGCG	
<i>SIHSP90</i>	Forward	AGCGGTATTGGCATGACTAA	
	Reverse	TACGCAGAGTAGAAACCCAC	
<i>SIGRP</i>	Forward	CCGGAAGTGTTGTTCTCTAGA	
	Reverse	CAATAAGCTCCAAAAAGCAGC	
<i>SIDRCi7</i>	Forward	TTGTGTTTCTGTGTTGTTTTGG	[1]
	Reverse	GCACATACATATGCACTTACATACAG	
<i>SITAP3</i>	Forward	tcagacagaggatgggagaa	
	Reverse	agcttcagagaattgtccaca	
<i>SITM6</i>	Forward	CTCCATTCGCAAATGCCACAGC	[2]
	Reverse	GAAGGCGAGGAACTTAGAAGAGCAA	
<i>SIExpressed</i>	Forward	GCTAAGAACGCTGGACCTAATG	[3]
	Reverse	TGGGTGTGCCTTTCTGAATG	
<i>SIPIF4</i>	Forward	TGGACCGAGACACATTTGAAC	
	Reverse	GGTCGCTGTAGATTGATTGC	
<i>SIPIF7a</i>	Forward	GCCACCACTAGTACTACCAC	
	Reverse	TCCATGTCCATCGATTGAGG	
<i>SISPCH</i>	Forward	GGTGGAGGTGGTAATAGTGG	

	Reverse	GACGTTGTGGTTGTGATTGT	
SINCE1	Forward	CAACAGCAAGGAAGAAGACG	
	Reverse	TGCCTCCAACCTCAAACCTCA	
SIPP2C	Forward	TGCTAATGTCGGAGATTCTCGTGC	[4]
	Reverse	CTACTGCTAACTGCCCATCAACCC	
SIP5CS	Forward	CTTGCAAACCTCAGTTCGTGT	
	Reverse	ATCCATCAGCAATCTCCGTT	
SIP5CR	Forward	GGTGTGGTTAAGTCTGGGAT	
	Reverse	GACTCAAAGCAGTACGACG	

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