

Accessory Publication

Table S1. To successfully investigate specific gene expression, qRT-PCR was used
Multi-gene family member sequences were aligned and primers were designed based on sequences unique to each family member. The primer sets used are listed below, along with the corresponding Genbank accession number and the chromosomal location number

Gene	Genbank nucleotide accession number	Forward primer (5'-3')	Reverse primer (5'-3')	Chromosomal location
<i>PAL1</i>	X52953	AGAAGGAACTCATCAGATTCTTAAACG	CTCACTAACATGGCTGCTCTGG	–
<i>PAL2</i>	GQ358921 GQ220305	AAGGCTGTGGCAAATCAATCC	GTATGCCATGCAAGGAACCTGTAATT	–
<i>C4H</i>	X92437.1	CTGTATTGTATCAATGCTTGAAAATGG	AAACCGTGCATCACTTCAAGTTC	–
<i>4CL1</i>	AF279267	AGGTATTAAGTGAAGACTTAACGAAGG	CCTTCCTGTTGTGGTTTTGTTC	–
<i>4CL2</i>	AF002259	AAAGATAGCGGCAAGTGTCCA	TCACACTGGTAACTTATACACGGTTGT	13
<i>4CL3</i>	AF002258, AF002257	CAAAACCTACACCTACTCCGAGACA	TCTCCAGAACTCCGCCGAG	–
<i>4CL4</i>	X69955			–
<i>CHS1</i>	X54644, FJ770471			–
<i>CHS2</i>	X65636	ACATGTGCTCAGCGAGTATGGTAAT	GTCCAGGGCCAAAACCAAAG	5
<i>CHS3</i>	X53958	TCACTGTCTAATCCATATATCTTGTGCA	AAGAATACATTTTTCAAACCTCAACATGAAAG	8
<i>CHS4</i>	X52097	CATCCAAGCCTTTCCTTCGTAGAT	TCTCTCAACACTCACCATCCTAGC	8
<i>CHS5</i>	L07647.1	TGCCTAGCTACTCCTTAATTACTTTTCATTC	GGATCTCTCAACACTCACCATTG	8
<i>CHS6</i>	L03352	GTTGTGCTTCGCAGTGCACA	ACGGAGAAAAGAATACATTTTTCAAACAG	9
<i>CHS7</i>	M98871, S46989	AATCAAATCGCATTGGTATCTGAAA	TGCCCTTTGTGCCTGCCT	1
<i>CHS8</i>	AY237728	CCTCTCTGATTTTGTAATTGAGTTCGA	TCTGCCCTTTGTGCCTGG	11
<i>CHS9</i>	EF623853			8
<i>CHR</i>	X55730	GAAATCCATAGCCCAGGTGAGTC	TGTGCAGATTCTGGTTCATCCTC	–
<i>CHI1A</i>	AF276302, AY595413			20
<i>CHI1B1</i>	AY595414			
<i>CHI1B2</i>	AY595419	AGCCGCAGCCATTGAAAAG	GCCCCAAGATTCCATCAGGT	
<i>CHI2</i>	AY595415			–
<i>CHI3</i>	DQ191405 AY595416			20
<i>CHI4A</i>	AY595417			
<i>CHI4B</i>	AY595418			
<i>IFS1</i>	EU391473, AF195798	ATCAAGGGCCTTGTGTGCGAC	CAAAAGGCTCGTGAGGAGGTC	–
<i>IFS2</i>	AF195819, AF022462	TGTGGGAAAGGACAGACTTGTG	GCAATCGTGAAGGAGACATTCC	13

Note: No specific primers could be designed for *4CL4*, *CHS1*, *CHS9*, or individual *CHI* gene family members. Genes encode: *PAL*, Phenylalanine ammonia lyase; *C4H*, Cinnamic acid 4-hydroxylase; *4CL*, 4: Coumarate CoA ligase; *CHS*, Chalcone synthase; *CHR*, Chalcone reductase; *CHI*, Chalcone isomerase; *IFS*, Isoflavone synthase. (–) Indicates currently no match to the soybean genome.