

**Supplementary Table S4.** Primer sequences of genes used for qPCR

Encoded enzyme name	Gene	Gene Accession no. (NCBI)	Primer sequences
Phenylalanine ammonia-lyase	<i>PAL</i>	XM_004234584.3	CGGTGAGGAGATTGATAA TTAGCAGATTGGAATAGGA
trans-cinnamate 4-monooxygenase 1	<i>C4H1</i>	XM_004242430.4	GAGTAGATTGGCACAGAG TCTCCTTAACCTCCTTACA
trans-cinnamate 4-monooxygenase 2	<i>C4H2</i>	XM_004240074.4	GTGTTGTATATTGTGGAGAAT CTGTGACTGACTTACCTT
flavonol synthase/flavanone 3-hydroxylase 1	<i>FLS1</i>	XM_004250281.4	TGAAGAAGTAGCACAAGA GCCAATAATGATAGTTAATAGC
flavonol synthase/flavanone 3-hydroxylase-like 2	<i>FLS2</i>	XM_004242121.4	CTGGTTCTGACTACAATATC GACATTCACCTTAGGATTCTT
flavonol synthase/flavanone 3-hydroxylase-like 3	<i>FLS3</i>	XM_019213093.2	CGCAGCATTACACCTCAT CCTTCCAACACAACCTCCTAA
chalcone synthase 1	<i>CHS1</i>	NM_001247104.2	GGCTTACATTCCACTTAC GAGAGTTCCAGTCAGATA
chalcone synthase 2	<i>CHS2</i>	NM_001247107.2	TTGGATAGTATGGTTGGA TCTGGTAATGGATCTGAA
chalcone synthase B	<i>CHSB</i>	XM_004239850.1	TGAAGACTACTGGAGATG CATACTACGAAGCACAAAC
chalcone synthase J-like	<i>CHSJ1</i>	XM_010316555.2	GGACTTGCTAATGTGTTG GTTCACTCTTATGTTCACTATT
chalcone synthase J	<i>CHSJ2</i>	XM_026031338.1	GACTACCAACTCACTAAG GAACATACAACAAGAACTC
4-coumarate--CoA ligase-like 1	<i>4CL1</i>	XM_004232127.4	GTTATCCACCCTGACGACCC AATTCGGGTTGTGCGCCATCT
4-coumarate--CoA ligase	<i>4CL2a</i>	NM_001346865.1	GTTATCCACCCTGACGACCC AATTCGGGTTGTGCGCCATCT
4-coumarate--CoA ligase	<i>4CL2b</i>	NM_001346841.1	TACCGCCTATTGTTCTCGCC GACCAGCTTCCGTCATTCCA
4-coumarate--CoA ligase-like	<i>4CL2c</i>	NM_001346847.1	TGAGAATGATGTGAAGGT TTAGAGGTGAATCCAGAAT
4-coumarate--CoA ligase	<i>4CL2d</i>	XM_004242742.3	CCTATTGTATTGGCTATTGC GCTCTAACGGTATCTTCAA
4-coumarate--CoA ligase	<i>4CL2e</i>	NM_001346845.1	GGCGATATTGGTTATATTGAC GGATGATTGAGGAGAAGG
4-coumarate--CoA ligase-like 5	<i>4CL5</i>	XM_004253081.4	GAGCCGGAGATATGGAACGG ACTCTGCTGGAGGAACCTGA
4-coumarate--CoA ligase-like 6	<i>4CL6</i>	XM_004245889.4	TTGTGGACTCAGCTTCTGGC TAACGCCTTTTCCACACCA
4-coumarate--CoA ligase-like 7	<i>4CL7</i>	XM_004251059.4	TCAACAATCCACAGGCCACA CTCAGCATCAGGAAACGGGA

4-coumarate--CoA ligase-like 9	<i>4CL9a</i>	XM_004233957.4	CCGGACACTGGAATTGCTCT ATGCCACCCGCCTTATCTTC
4-coumarate--CoA ligase-like 9	<i>4CL9b</i>	XM_004236294.3	TCTCTACTCATCTGGA ACTA ATTAGCGGCATCATCATT
4-coumarate--CoA ligase-like 5	<i>4CL9c</i>	XM_004250447.2	ATGTCAAGTGAAGGAGAA CTGTGTCAAGGTTAGAATAG
Ubiquitin	<i>UBQ</i>	NM_001345879.1	GCAGACTATAACATCCAGAAAGAG AACAAACAAAGCACACAGCCATC
Actin	<i>Actin</i>	NM_001330119.1	GAAATAGCATAAGATGGCAGACG ATACCCACCATCACACCAGTAT