

Supplementary Materials

Table S1. Primer sequences of the genes and PCR conditions used in this study

Genes	Encoded protein		Primer sequences (5'-3')
<i>MdPAL</i>	Phenylalanine ammonialyase	F	TTCCTTGGCAACCCTGTCAC
		R	ATGTCGACCGCCTCAAAGG
<i>MdCHS</i>	Chhalcone synthase	F	GGACTGGAAC TCACTCTTC
		R	GCCGTAATCTGACAACAC
<i>MdCHI</i>	Chalcone isomerase	F	AGGATCACTAACGATCAGCTTCTCT
		R	TGGCCAAACTTTGCTTTGCTG
<i>MdF3H</i>	Flavanone-3-hydroxylase	F	CCAAGCAGTGGTGAAC TC
		R	CTTCTCTCCCTCCCTCAC
<i>MdDFR</i>	Dihydroflavonol 4-reductase	F	AAGCCTCATCACTGGACT
		R	ATGTGAGAAAGGCAGAGG
<i>MdANS</i>	Anthocyanidin synthase	F	GCTGGAGAAAGAAGTTGG
		R	GGAGGATGAAGGTGAGTG
<i>MdUFGT</i>	UDP-glucose: flavonoid-3-Oglucosyltransferase	F	CAACATCCAAGGTCTCTC
		R	GTCCCATCTGAAGTAGCA
<i>MdMYB10</i>	R3R3 myb-type transcript factor	F	TCATCTCTCTACTGCAGTGCCTA
		R	CCAGAAAGACACCTTAGACCTTCG

PCR conditions were as follows: 95 °C for 5 min, followed by 40 cycles at 95 °C for 10s, 60 °C for 15s, and 72 °C for 12s, melting curve analysis was performed at 65-95 °C.