

Supplementary Table S1 The primer pairs for the qRT-PCR analysis

Gene function	Primer name	Primer sequence (5'-3')	annealing temperature/ °C
Genes involved in Flavonoid metabolic pathway	RT- <i>AtrPAL</i> -F	TTGGTGCTACTTCTCATCGG	59
	RT- <i>AtrPAL</i> -R	TGATTCGGTTCCATTGCC	
	RT- <i>AtrF3H</i> -F	TTCTTTGCTCTTTCGCCTG	59
	RT- <i>AtrF3H</i> -R	GCCATCTTGAATAATCCCTGT	
	RT- <i>AtrCHS</i> -F	ATGGTGGTGGCTGAAGTTC	59
	RT- <i>AtrCHS</i> -R	TGGTAGAGCATAAAGCGGC	
Genes involved in carotenoid metabolic pathway	RT- <i>AtrPSY</i> -F	TCGGTGTGGTGAAGTTTGC	59
	RT- <i>AtrPSY</i> -R	ATCGCCCAGATAGCCTTTC	
	RT- <i>AtrZDS</i> -F	CCAGAACCTGAATGTTACAAGG	59
	RT- <i>AtrZDS</i> -R	TGATTTCCACGCCTGTCA	
	RT- <i>AtrPDS</i> -F	TGGGCATTTGGGTGAAGA	59
	RT- <i>AtrPDS</i> -R	GGAAGTCGTTGGGTAGTGTTG	
Reference genes	<i>EF1α</i> -F	GGGATGCTGGTATGGTGAA	59
	<i>EF1α</i> -R	ACGGGTCATTTCTTCTTCTGAG	