Supporting information

Table S1. Sequences of primers used in quantitative real-time PCR analyses of petunia cv. Blue-Spark and line P720

Figure S1. Short-term (8 h) exposure of petunia cv. Blue Spark flowers (at 1 dpa) to high-temperature conditions increases the level of benzaldehyde emission. 'Blue Spark' plants were grown for 1 month at 22/16°C and dynamic headspace analysis of benzaldehyde was initiated following their transfer (at 1600 h) to 28/22°C conditions. For comparison, benzaldehyde levels were also analyzed in flowers of plants grown only under 22/16°C and 28/22°C temperature conditions. Dynamic headspace analyses of benzaldehyde were assayed using GC–MS. Values are the averages of four to seven independent experiments with standard errors indicated by vertical lines. The significance of the differences in emission levels between temperature regimes was calculated using Tukey's all pairwise multiple comparison procedure following one-way analysis of variance (ANOVA). Values with different letters are significantly different at $P < 0.05$.

Supplementary table 1. Sequences of primers used in quantitative real-time PCR analyses on petunia cv. Blue-Spark and line P720

Gene	Accession number	Forward primer (5'->3')	Reverse primer (5'->3')
PhPAAS	DQ243784	TGTCGATGAAACCCAAGTGA	ACCACATTCCAGGCCATATC
PhBPBT	AY611496	TGTTGAAGGGTGATGCTCAA	GGATTTGGCATTTCAAACAAA
PhEGS	EF467241	AAGCAACTGC TTTGCTGGTT	TCCCAAATAGCCACAAGCTC
PhIGS	DQ372813	CCACGTCAAAAGAGTGAGCA	CCAGTGGTTTTCTCCCAAGA
PhCFAT	DQ767969	CCAATGCCTAGCCCTAACAA	GGACGCTTCTTCACATCACA
PhPAL	AY705976	CAAGCCAGCCATTCCTAATAG	CCACCAACTTTCCTTCATTCA
Ph4CL	JN120849	ATGTGGATTGAGGGTTGGAG	CCCCAGACATGACTGTCCTT
PhC4H	HM447144	CCAGGAGTGCAAGTGACTGA	CTTCCAGTGA GCAGGGTTGT
PhKAT	FJ657663	GTGCATAGGTTCTGGGATGG	TCTCAAGTTCACTAAATCCTGCTG
PhCNL	JN120848	AGTGGCAGTCCGAATGGAACAAAC	TTCACATCAACATCTTCAAGTGCTAGTACG
PhEPSPS	M21084	GCGGAAAACCTTCCCTAACT	GCCCTTCTGAACTGAAATGG
PhADT1	FJ790412	TAACTGCGAAGCCATTCCCTGC	CTCTACTGGTAGAACTGTGCGCG
PhDAHPS	CO805162	TTGAGGGCTTTTGCTACTGG	GTCCAGAACTCGGTGGTTGT
PhCS	TC2915	TGTTCCAATGGTTGAAGCAA	GTTTCAAAGGGCAACCTCAG
PhPPA-AT	HM635905	GCAATGACTGGTTGGAGACTTG	TGCTACTGGCACCTGATGTGTA
PhCM	EU751616	CCTGCTGTTGAAGAGGCTATCA	CAGGGTCACCTCCATTTTCTG
PhEOBII	EU360893	CAAGCAGGCCCTAATTTTCTC	TCATGAGATGGTTCAATCTAGGG
PhODO1	AY705977	ACCAACCTACCAACCAACCA	ATGATGACCCCTCCAACAAG
PhEOBI	KC182628	AAATGGATAAAAGAACATGCAATTCTC	GCTAGGCAGCTAGATTACTGATT
PhEOBV	GQ449250	CACACAGGGC ATTTAACGAG	CCTTGGTGAT CTGGTTGGTT
PhEF1α	SGN-U207468	TGAGATTCTGCGTGGATGAA	CCCATCAAGCAACTTGGACT
PhCYP	SGN-U207595	AGGCTCATCATTCCACCGTGT	TCATCTGCGAACTTAGCACCG

Figure S1