

**Supplementary Table S1. List of primer sequences used for qRT-PCR analysis.**

Gene	Gene ID (Cucurbit Genetic Database)	Gene Pathway	Forward Primer	Reverse Primer
<i>CpNCED2/5A</i>	Cp4.1LG10g05900	ABA biosynthesis pathway	TCTGGCTCAAGAACACAGC	GTGGTACGGCAAATCGTCTT
<i>CpPP2C-A</i>	Cp4.1LG03g14520	ABA signaling pathway	TCAGAGCTGCACGCCGC	GAATCTTTGCAAAACAAGGAACAG
<i>CpCYP707A2</i>	Cp4.1LG02g13560	ABA catabolism pathways	CGGCGACAAAGTGAGAAAA	CGAACTCCACCTCTTCCACT
<i>CpACO1A</i>	Cp4.1LG04g02610	ET biosynthesis pathway	CATAGAGTGATGACTCAACAAGC	CCATTGGACCCAAATTAGCA
<i>CpACO3</i>	Cp4.1LG10g09730	ET biosynthesis pathway	GGAGGGAGAGGAAGATAAGG	TGGGTTATTGGAAAATGGAG
<i>CpEIN3</i>	Cp4.1LG18g01370	ET signaling pathway	TAGCAGCCAATTCAACCAAGTTTAAAGCC	CGGTAAAGCATCGAATTGAGATCAGG
<i>CpLOX3A</i>	Cp4.1LG12g09270	JA biosynthesis pathway	AACGCGCACAAATCTTCTCT	AGCTGCCATATCCAATTGCT
<i>CpJAZ1B</i>	Cp4.1LG17g04050	JA signaling pathway	CCATACCAAATGAACCAAGCAG	GGGGATAGATATGAAAAACCAACG
<i>CpMYB21B</i>	Cp4.1LG04g05410	JA signaling pathway	ACTCAGCCGAAGGTGTGGT	ATGTTGCCTCGTCGAACATT
<i>CpEF1α</i>	Cp4.1LG12g00880	Reference gene	CGTCAAGAAGAAATAAGCCA	CTACTACGAGAGAGAGAGCCG