

Table S1. *ATG8* family members, ethylene-related genes, SIPSY1, SICRTISO primer design table.

Gene ID	Gene	Primer sequence(5'→3')
Solyc01g068060	<i>SlATG8a-F</i>	CGTGAAGCAAAGAAATGGGGAAGAC
	<i>SlATG8a-R</i>	ACCGGCACACGATCAGGATATTTG
Solyc02g080590	<i>SlATG8b-F</i>	TTATGTGGTGCGGAAGAGGATCAAG
	<i>SlATG8b-R</i>	AGAGAAGCTGTTGGAGGCAAAGTG
Solyc03g031650	<i>SlATG8c-F</i>	TCCGAAAGAGGATCAATCTCAGTGC
	<i>SlATG8c-R</i>	CAGACATCAGAGCAGCAGTTGGAG
Solyc07g064680	<i>SlATG8d-F</i>	GCTGCCATGATGTCTGCCATTTATG
	<i>SlATG8d-R</i>	GAAGGTATTCTCGCCACTGTAGGTC
Solyc08g007400	<i>SlATG8e-F</i>	TTGACGGTAGGGCAGTTTGTGTATG
	<i>SlATG8e-R</i>	TGGAAGACATGATTGCACCTGTTGG
Solyc08g078820	<i>SlATG8f-F</i>	ACAATGTGCTACCGCCAACAGG
	<i>SlATG8f-R</i>	GGTAACATAGAGGAAGCCGTCATCG
Solyc10g006270	<i>SlATG8g-F</i>	TTGGTTCCTGCTGATCTAACTGTGG
	<i>SlATG8g-R</i>	TGCTCCTCATAAATGGCGGACATC
AY192368.1	<i>ERF2-F</i>	CGTTTGTTCATCCACCGACCT
	<i>ERF2-R</i>	GTCACGAATTTACAGCAGCCC
U38666.1	<i>NR-F</i>	ATCGCATTCTCCGTCGTCAT
	<i>NR-R</i>	TCCATTATCTCGTTTCGTCCC
NM_001247220.2	<i>ETR1-F</i>	ATGGATGAGAATGGTGTTAGCAGGA
	<i>ETR1-R</i>	CACAATAAGTGGCCTACCGTGACGT
AF118843.1	<i>ETR4-F</i>	GTTCTTGGGCTTCAACTGCG
	<i>ETR4-R</i>	ACAGCAGGGCTAAGAACACC
NM_001247276.2	<i>ETR3-F</i>	AAGGGAACCACTGTCACGTTTGTAG
	<i>ETR3-R</i>	TTAATGTTCTTTGTCACACCAATGTCC
Solyc05g050010	<i>ACC4-F</i>	CAAGCACAATGGAAGAGGAACAACC
	<i>ACC4-R</i>	CGCACTACGAGCAAGGAATTGGAG
Solyc07g049530	<i>ACO1-F</i>	CCACCATGTCCTAAGCCCGATTG
	<i>ACO1-R</i>	TTGCTCGTCTTTGAGGAGTTGAAGG
Solyc01g095080	<i>ACC2-F</i>	GCTTAACGTCTCGCCTGGATCTTC

Solyc03g031860	<i>ACC2-R</i>	CTCAACACCTACGAACCTCCGAATC
	<i>PSY1-F</i>	TTGCTGGAAGGGTGACCGATAAATG
	<i>PSY1-R</i>	ACAAGACCAAAGATGCCCATACAGG
AF416727	<i>CRTISO-F</i>	TTTTGGCGGAATCAACTACC
	<i>CRTISO-R</i>	GAAAGCTTCACTCCCACAGC
Solyc03g078400	<i>Actin-F</i>	TGGTCGGAATGGGACAGAAG
	<i>Actin-R</i>	CTCAGTCAGGAGAACAGGGT
