

Table S1. Primer sequences used for quantitative RT-PCR analysis.

Gene	ITAG gene ID^a	Primers	DNA sequences (5'-3')
<i>SIDof1</i>	Solyc01g096120	Forward	GGGATTACACTGGGTTGAGTATGTT
		Reverse	GCTAGCACAGAAACCCTAGAAGCT
<i>SIDof2</i>	Solyc02g065290	Forward	TTGCCACGCTGTGACTCTATC
		Reverse	TGGCGTGGCTGAGACAAATTGTAG
<i>SIDof3</i>	Solyc02g067230	Forward	CAGGAGAGGCTGCAAAGAGTTC
		Reverse	ACTTCCACCAACTGAATCAACGG
<i>SIDof4</i>	Solyc02g076850	Forward	TGGTGGCTCATGAAGATCAATGGC
		Reverse	AGGTGCTTCTCCTCCTCTTAGCTG
<i>SIDof5</i>	Solyc02g077950	Forward	CAGCAAATGAAGGATCCGAACAAC
		Reverse	AGCTGACATGATCACTCCGATCC
<i>SIDof6</i>	Solyc02g077960	Forward	AGGTGGAACCCTAAGGAACGTC
		Reverse	CCGCCCTTCATTGTGCGTTTAC
<i>SIDof7</i>	Solyc02g078620	Forward	CACAATACTCGACCGGAACCAC
		Reverse	CACCTTGGACATTTCAACGACTCC
<i>SIDof8</i>	Solyc02g088070	Forward	CACCACTATGAATGGAGCTTCACC
		Reverse	AGAAGGCCAACAGGAAGAAAGGG
<i>SIDof9</i>	Solyc02g090220	Forward	TGCGAAACGGTCCCGTACAATC
		Reverse	AGAGAGCGTGGAGGACAAACAG
<i>SIDof10</i>	Solyc02g090310	Forward	TTTGGATTTCGGCTCCGGTAACTG
		Reverse	TGTTGAAAGGGTCGGGTTCCAG
<i>SIDof11</i>	Solyc03g082840	Forward	ACAGATCTGGCGAACCCCTAACG
		Reverse	AGTACCACCACTGGGTATTGGG
<i>SIDof12</i>	Solyc03g112930	Forward	CATGACGATCAATTAGGCAGCAAC
		Reverse	AGATCCTAGGCCACCATTACCAG
<i>SIDof13</i>	Solyc03g115940	Forward	CATACGCTGCTGTTTCCTTTCCC
		Reverse	ATAAGGAGGAGGGCAGAATGGC
<i>SIDof14</i>	Solyc03g121400	Forward	CCCTGCAACTCCTCCATTAACATC
		Reverse	TGCAGGTATAACCGAATGGCTCTG

<i>SIDof15</i>	Solyc04g070960	Forward	TTGGCTATGCAGTCGGTTGGAC
		Reverse	TGCACTCTTTGGCACTCGTTTG
<i>SIDof16</i>	Solyc04g079570	Forward	TGGGTGGGTTTGTGCCATTAGG
		Reverse	TGGGCCAATCAAGATTCCCAAGC
<i>SIDof17</i>	Solyc05g007880	Forward	CCTCGTTACTTCTGCAAGAACTGC
		Reverse	ACCAGATCCCACAGGCACATTTT
<i>SIDof18</i>	Solyc05g054510	Forward	CCCAATTGGCATCATGAGCAAGG
		Reverse	CTAGTTGAGCCAAGTGGACCAC
<i>SIDof19</i>	Solyc06g005130	Forward	TCTCGTGCTGGCTTTCTTGATAC
		Reverse	TGGTGCAAGAAGCCATTTGATGC
<i>SIDof20</i>	Solyc06g062520	Forward	TTCCAGTTGGTGGGAAGCTCTCG
		Reverse	TCGTCATCGTTGAGGAGCGTTTAC
<i>SIDof22</i>	Solyc06g069760	Forward	ACTCCAGCGGGAAACTTCATGG
		Reverse	GCTCTGTAAGTGATCTGCGCACTG
<i>SIDof23</i>	Solyc06g071480	Forward	TGGTACTACTGGTCTGATCAACGG
		Reverse	AGCAATAATGTGGTCCGATTCTCG
<i>SIDof24</i>	Solyc06g075370	Forward	TCCCTCTAGTGCACAGCATCAG
		Reverse	TGGCTTTGTACTCACCAACATGC
<i>SIDof27</i>	Solyc08g082910	Forward	TGCTAACAGCCCAACTTTCTC
		Reverse	ACACATGACATGGTAGACCCAAAC
<i>SIDof28</i>	Solyc09g010680	Forward	ACCTTGGTGGTGGAGAGTACGAG
		Reverse	TCACGGAGGCCATTTGATTTAGC
<i>SIDof29</i>	Solyc10g009360	Forward	CATGGTGAATAAGGAATTGAAAGAAA
		Reverse	TCAAAGAGTAAAGTGAATAACAAGGAACT
<i>SIDof30</i>	Solyc10g086440	Forward	TGTGGGTGGTGGAGGTTCAATC
		Reverse	TTTGCTAACCGGGCTCGATCTG
<i>SIDof32</i>	Solyc11g066050	Forward	CCAACCGCGCCATTTCTGTAAG
		Reverse	TCCCACCGGCACATTTCTCAAG
<i>SIDof33</i>	Solyc11g072500	Forward	TCAGCAAAGCGATCAAGCCAAG
		Reverse	TGGCGAATGCTAGGCTCAAATCAG

<i>NOR</i>	Solyc10g006880	Forward	AGAGAACGATGCATGGAGGTTTGT
		Reverse	ACTGGCTCAGGAAATTGGCAATGG
<i>FUL1</i>	Solyc11g005330	Forward	GTTTTGCCACAACAACCTGGACTC
		Reverse	CTTGCTGCTGTGAAGAACTACC
<i>ACS2</i>	Solyc01g095080	Forward	AATGTCAAGAGCCAGGGTGGTTCC
		Reverse	TCCTCGCGAGCGCAATATCAAC
<i>Nr</i>	Solyc09g075440	Forward	TGTTCCCTATGCCAAGTGATGGC
		Reverse	ACACCCAGTATCTCTAACCTGGAC
<i>PSY1</i>	Solyc03g044300	Forward	ATCAATAGAGGTGGTGGAAAGCAA
		Reverse	CCAGATGGAGTAGCCAAAATAGCA
<i>PDS</i>	Solyc03g123760	Forward	TTGACAGAAAACCTGAAGAACACATA
		Reverse	TGCAAAAACCAATTCCAACATAGAC
<i>PG2A</i>	Solyc10g080210	Forward	TGGACAAGTATGGTGGCCAAGTTC
		Reverse	TCCAGAAGGTTAAGGCCGTTGG
<i>PME1</i>	Solyc07g064170	Forward	TCCCGCTAAAGCTATGCCGTTTC
		Reverse	TTATGCTTGCTCTGCCCTGCTC
<i>LoxC</i>	Solyc01g006540	Forward	CGGTGGTGCCGGCATTGGAA
		Reverse	CGGTGGTGCCGGCATTGGAA
<i>ADH2</i>	Solyc06g059740	Forward	ACACCGTGGTTCATGTTGGATGTG
		Reverse	TCAAACCTGCTCCAAGGCCTGTC
<i>ACTIN</i>	Solyc11g005330	Forward	TGTCCCTATTTACGAGGGTTATGC
		Reverse	AGTTAAATCACGACCAGCAAGAT

^aITAG, the International Tomato Annotation Group release version 2.5.

Table S2. Primer sequences used for ChIP-qPCR analysis.

Gene	ITAG gene ID ^a	Position	Primers	DNA sequences (5'-3')
<i>ACS2</i>	Solyc01g095080	-869 ~	Forward	TTGTAATGGCAGTCTCTTTTTTCTC
		-718	Reverse	CCGGGTTTTCACTTCATCAC
<i>NR</i>	Solyc09g075440	-270 ~	Forward	GCCTGTAAGTAACCATACCTCTTAA
		-118	Reverse	GGCATGTAGCATTTCATCCAA
<i>PG2A</i>	Solyc10g080210	-1023 ~	Forward	GAATCGAAGCACCAATCTAATTT
		-848	Reverse	ATTCCTTCGTCTCAATTATGTGATG
<i>NOR</i>	Solyc10g006880	-1533 ~	Forward	CATATGAGCGCCACGAATTC
		-1383	Reverse	ACGCATGCAAGTTGGTACCA
<i>MC</i>	Solyc05g056620	-1882 ~	Forward	GCGCCCTTTGTTATTACTTTTCCT
		-1707	Reverse	GCGCCACACATTTTAGTATTCCTTA
<i>SIIAA2</i>	Solyc06g084070	-1416 ~	Forward	AAAAGCTAAGCGATTTAACAAGTG
		-1215	Reverse	TATTGCAGTGGACTGACTAAAGC
<i>SIIAA4</i>	Solyc06g053840	-620 ~	Forward	GCCCCACCCCTAAATAGTAGT
		-382	Reverse	CCCCAAAACCTACAAATCACAA
<i>SIIAA27</i>	Solyc03g120500	-1218 ~	Forward	CCTATTTGATGGTTGGCACTAA
		-963	Reverse	CGTTGCACTGAGTTTGTCTAATAC
<i>SIREV8</i>	Solyc10g084370	-321 ~	Forward	TAGAGCATGTGCATCTACGTATTC
		-121	Reverse	CAAGTGGTCTACGCCGATTT
<i>SIDIV2</i>	Solyc06g076770	-328 ~	Forward	GTCATAAAGGGAAAAAAGGAAGAA
		-128	Reverse	TCCACTGTTTTAGTCCTTCAAAT
<i>PSY1</i>	Solyc03g031860	-1660 ~	Forward	GCTAAATCGAAAATTGAATCGTT
		-1407	Reverse	TTCCACTGTTTTAGTCCTTCAAAT
<i>ADH2</i>	Solyc06g059740	-1597 ~	Forward	CTTCAAGACTCTAATTTTTTTTA
		-1386	Reverse	AAAAAGTAGTTATCAATATTAGGAA
<i>SIDof1</i>	Solyc01g096120	-1491~	Forward	AGTAAAGTGAAACACTGAAAAGTCTA
		-1362	Reverse	TGTAACATGTTCTAATTGTCCTCTAT
<i>ACS2</i>	Solyc01g095080	-1707~	Forward	TCACAAACGAGCTATTCTAAAAA
		-1605	Reverse	CCTTACATCATTTATTATTACAA

^aITAG, the International Tomato Annotation Group release version 2.5.

Table S3. Primer sequences of promoters in transcriptional activity assay.

Gene	ITAG gene ID^a	Primers	DNA sequences (5'-3')
<i>ACS2</i>	Solyc01g095080	Forward	GCCCATGATAAGCCTCCAT
		Reverse	TTTTTTTTTACTAAATGAGTTTAGAAGTGAAGAAAT
<i>PG2A</i>	Solyc10g080210	Forward	TTTGGGGCCTAAGACAAAGG
		Reverse	GATATATTGTTATATGGTATGGTTTTTAAACTTGT
<i>SIIAA2</i>	Solyc06g084070	Forward	TTATTGTTTGGTTGTGGGCG
		Reverse	TTCTTATAATTTACGGTGAAAGCTGAA
<i>SIIAA4</i>	Solyc06g053840	Forward	AATGTTTGCTATATGTGAAAGTTGCC
		Reverse	TATAGAGGGTCCACCCGTT
<i>SIIAA27</i>	Solyc03g120500	Forward	ACATATAAAAAGAGATGGATGATGTTGGT
		Reverse	AGACTTCTTTTGGTGCTTTTGTAGA

^aITAG, the International Tomato Annotation Group release version 2.5.