

Supplementary Materials:

Table S1. Primers used for gene expression analysis of antioxidant enzymes, salicylic acid biosynthesis genes, and pathogenesis-related proteins of tomato (*Solanum lycopersicum*) using real-time RT-PCR ^a.

Description	Gene	NCBI Accession number		Primer (Forward and Reverse)	TM (°C)	Product size (bp)
Antioxidant enzymes						
Cytosolic ascorbate peroxidase 1	SIAPX1	NM_001247853.2	F	GGCTCTCCTTTGTGATCCT G	59.80	211
			R	CAAAAACAACAGCTCCA GCA	60.03	
Cytosolic ascorbate peroxidase 2	SIAPX2	NM_001247859.2	F	TACGGGAGGACCTGATG TTC	59.93	216
			R	CAAGGTCCCTCAAAACC AGA	60.08	
Superoxide dismutase [Cu-Zn] 1	SICuSOD1	NM_001247102.2	F	TGAATTGGGGTTGAACCA TT	60.03	189
			R	GCAGGCACTGTAATCTGC AA	60.02	
Iron superoxide dismutase	SIFeSOD	NM_001313769.1	F	GCCACTGCCTCTGCTAAT TC	59.98	193
			R	TATGAGGCTCCAAAGCAT CC	60.18	
Salicylic acid biosynthesis genes						
Isochorismate synthase	SIICS	NM_001247865.2	F	CATTGTCGATGAATGGAT GC	59.89	243
			R	CTTTGGAGAGTCCGAGCA AC	59.99	
Aldehyde oxidase	SIAO2	NM_001247524.1	F	CGGTTTCCATGCTTCTCA AT	60.07	209
			R	CAAAAGTCTTGCAGGCAT CA	59.99	
Phenylalanine ammonia-lyase 1	SIPAL1	XM_004234584.3	F	ACGGGTTGCCATCTAATC TG	59.96	197
			R	AGCTGTTTTCTGGCTGA AA	59.99	
Phenylalanine ammonia-lyase 2	SIPAL2	NM_001320601.1	F	AGGCTACTCCGGCATAA GGT	60.12	223
			R	AATACCAGCCTGTTGGAA CG	59.99	
Phenylalanine ammonia-lyase 3	SIPAL3	NM_001320609.1	F	GAAAACCGCTGAGGCTG TAG	60.02	219
			R	CTGTCCACAACCTCGAAGC AA	60.02	
Phenylalanine ammonia-lyase 5	SIPAL5	NM_001320040.1	F	GCCAAGCTATCGACTTGA GG	59.98	190
			R	CAGGGGTCATCAGCATA GGT	59.95	
Phenylalanine ammonia-lyase 6	SIPAL6	XM_004249510.4	F	TTCAGGGGTACTCTGGCA TC	60.07	204
			R	CCTCAGCATTC AACGTCT CA	59.98	
Pathogenesis-related proteins						

Description	Gene	NCBI Accession number		Primer (Forward and Reverse)	TM (°C)	Product size (bp)
Pathogenesis-related protein 1	SIPR-1	XM_004242627.4	F	GGTGGGCAAATTCAAGA AGA	60.05	194
			R	CCCACATAATTGCCCTTC AA	60.69	
Pathogenesis-related protein 1a2	SIPR1a2	NM_001321040.2	F	GCTCAAAATTCACCCCAA GA	60.05	162
			R	CTCCCCTGAACCAGAATG AA	60.04	
Pathogenesis-related protein B1-2	SIPRB1-2	XM_019216060.1	F	CGGTGAACACTGGAAAT GTG	60.00	189
			R	GGAGCATCGCCATTAATC AT	59.89	
Pathogenesis-related leaf protein 4	SIPR4	XM_004246675.4	F	GTAACAACGGGTGGTGG TTC	60.13	246
			R	ATGCCCACCCTTCCTAT AC	60.04	
Pathogenesis-related protein 5	SIPR5	NM_001330783.1	F	GAGTCCTGGATTGCAAA GGA	60.20	209
			R	AAGTGAACCAGGGCATT CAC	59.97	
Pathogenesis-related leaf protein 6	SIPR6	NM_001247385.2	F	TCCGAGAGGCCAAGCTA TAA	59.94	189
			R	GTAAGGACGTTGTCCGAT CC	59.41	
Nonexpressor of Pathogenesis-related protein 1	SINPR1	NM_001247629.2	F	GCTTTTTCGGATTCCAAT GA	60.02	157
			R	CAGCGAAGAAGTCGAAA TCC	59.96	
Salicylic Acid Binding Protein	SISABP2	XM_004233374.4	F	AACGGACACCAGCAGAG AAT	59.73	198
			R	TGGCCTTTGACAAATCTT CC	60.05	
Reference genes						
Actin	SIACT	NM_001330119.1	F	ATGGTGGGTATGGGTCAA AA	60.07	197
			R	GGGGCTTCAGTTAGGAG GAC	59.91	
F-box/kelch-repeat protein	SIF-box	XM_004234570.4	F	CGGTTGACCCGATAAGA AAA	59.93	200
			R	GGTCGCGTATCAGGGTAG AA	60.10	

^a The listed genes were assembled based on recent available data in national center for biotechnology information website (NCBI, <http://www.ncbi.nlm.nih.gov/gene/>).