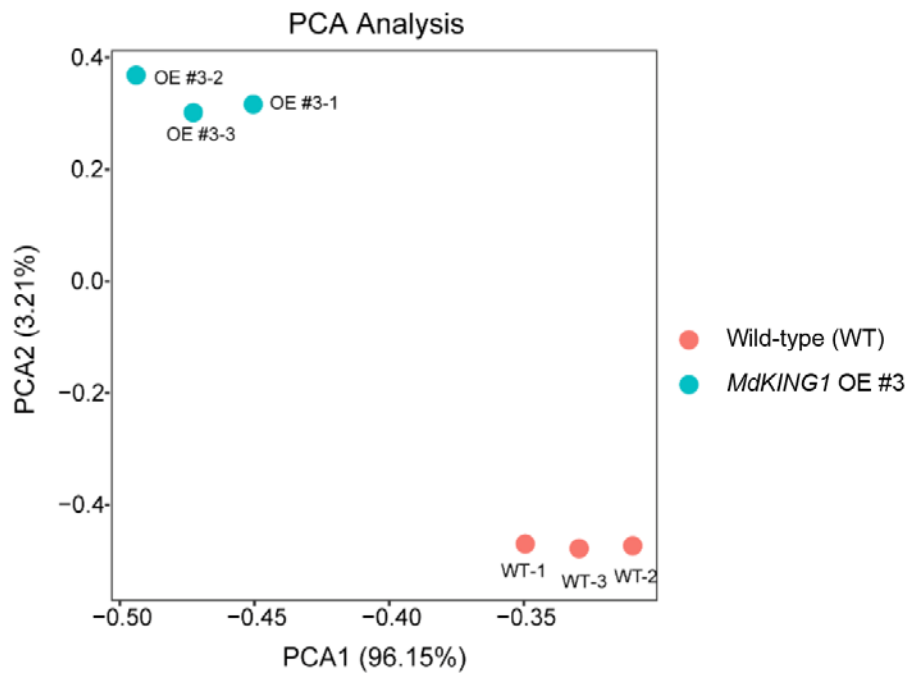
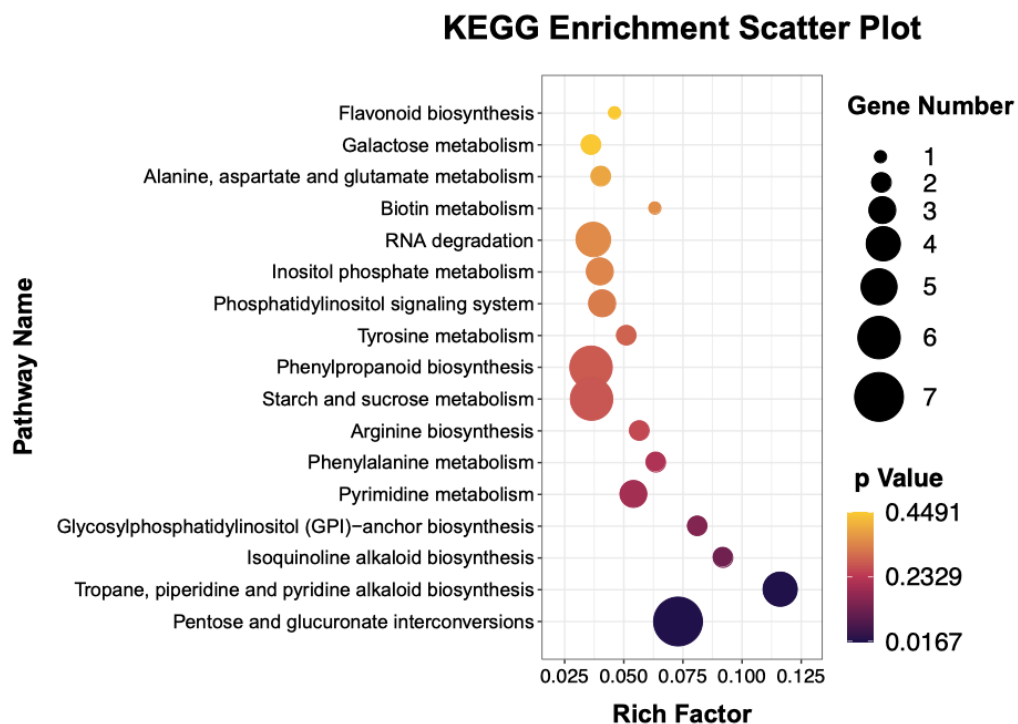


Supplemental Figure S1 Identification of transgenic tomatoes. (A) Identification of transgenic tomatoes at DNA level; (B) RT-PCR analysis of *MdKING1* in wild type and *MdKING1* OE plants.



Supplemental Figure S2 Principal Component Analysis of Transcriptome Data. WT represents wild-type, and OE #3 represents *MdKING1* OE #3. Each sample has three biological replicates.



Supplemental Figure S3 KEGG enrichment analysis of DEGs between wild type and *MdKING1* OE fruits. The top 16 enriched KEGG pathways were exhibited.

Supplemental Table S1. Primers used in this study.

Name	Primer (5' to 3')	Purpose
<i>SlActin</i> -qF	CAGCAGATGTGGATCTCAAA	qRT-PCR
<i>SlActin</i> -qR	CTGTGGACAATGGAAGGAC	qRT-PCR
<i>SlACS2</i> -qF	AAACCCCAACGGAGTTATCC	qRT-PCR
<i>SlACS2</i> -qR	GCAATGGCCTTGAATGATTT	qRT-PCR
<i>SlACS4</i> -qF	TGGATTGCCTGAATTCACAA	qRT-PCR
<i>SlACS4</i> -qR	ATCACCAGGATCAGCCAAAC	qRT-PCR
<i>SIPSY1</i> -qF	GCTAATGACTCCCGAGAGAAGA	qRT-PCR
<i>SIPSY1</i> -qR	CGGGGTAATATATGATGCGTTT	qRT-PCR
<i>SIPL</i> -qF	ATTGGTGGAAGTGCTGATCC	qRT-PCR
<i>SIPL</i> -qR	GTGCATCCTCGTGCTTTGTA	qRT-PCR
<i>SlACO1</i> -qF	ATTCAGCCATCTCTTTGGTGAT	qRT-PCR
<i>SlACO1</i> -qR	ACTTGAACCCTGAACCTGTGTT	qRT-PCR
<i>MdKING1</i> -qF	ACAGATCCATCACGGCGAAG	qRT-PCR
<i>MdKING1</i> -qR	TCCCATCATCGTCCACAACG	qRT-PCR
MdKING1-CDS-qF	ATGGGTGTGCCGGCGGTGATGAC	Gene cloning
MdKING1-CDS-Qr	TCAAACCCTGCTGTTTTGGGGCAG CG	Gene cloning
<i>MdKING1</i> -pCAMBIA1305-qF	TACCCTCGAGACTAGTGTGACAT GGGTGTGCCGGCGGTGATGAC	Vector construction
<i>MdKING1</i> -pCAMBIA1305-qR	TCCTGCAGGTGGATCCGAATTCA ACCCTGCTGTTTTGGGGCAGCG	Vector construction