

**Table S1.** List of primers used by RT-PCR analysis.

<b>Gene ID</b>	<b>Forward primer</b>	<b>Length (bp)</b>	<b>Reverse primer</b>	<b>Length (bp)</b>
Cluster-15176.332	TGCTTCCCCTTCATCAGC	19	ACATTAACCCACAGAACCACA	21
Cluster-15176.7686	ATCTTCCCTCTATGGATGCC	20	TGTTTCGTCGTGCTTGCTT	18
Cluster-15176.14147	TGACTATTATCCTCCTATCCTTACC	25	CAGACACTTCCACGTCTTTGT	21
Cluster-15176.23122	GTCCCAGGTACATCTCATCCG	21	CCTCCCTAACCGTCCAATA	20
Cluster-15176.23123	ACCAGTGGCTGATGAGTTGA	20	GTAATGTCTATACACCGTCAGAGC	24
Cluster-15176.23124	TCAACAAGGGTAATGCCAAGA	21	CCGCCAAGTATCAGTCG	18
Cluster-15176.22073	TGCTTACAGGAGGAAACACC	20	GGACAAATCTGCCTGGCTAC	20
Cluster-15176.23657	CACAGTGGCAGGAGGTTAT	19	AGCCTAATGGAGGAGCAC	18
Cluster-15176.7778	CTCCATTTTCGTTTCTCCTG	19	AACCGACAAGCAACTTCACTA	21
Cluster-15176.24151	CACCTCGCAAAGGGAAGC	18	GAACAGAAGGACCTAAACCACT	22
Cluster-15176.24152	CTTCCCACGCCGTAGACT	18	AGGATTGCCTGTTGATTTGA	20
Cluster-15176.16646	CCACGGTGTAACAGGATT	19	CTTTCGCCATTTGGGTAT	18
Cluster-15176.18801	TCGAGGACTATGCGTTGC	18	TCATTCTCCGTATCACTCTTGT	22
Cluster-15176.18933	TTCAGCAGCCGCAA	16	AAAGACGGAAACCAAACC	18
Cluster-15176.18933	TTCAGCAGCCGCAA	16	AAAGACGGAAACCAAACC	18
Cluster-15176.8468	TCAGGCATCTCGGTTGG	17	GACGAATGGGAGACAGTAGAA	21
Cluster-15176.7245	GCAAACCCTAAACACGGAGA	20	ATGCCAAGAAGCAGTAAGAGC	21
Cluster-15176.29835	TGACAGCATTGGGATAAAGAA	21	AGCAGGTGGGTTGAGGC	17
Cluster-15176.12278	GTACGGAGTAGAGCACAATAGG	22	GTTTGGTTAAAGGCGTTAGAG	21
Cluster-15176.12278	GTACGGAGTAGAGCACAATAGG	21	GTTTGGTTAAAGGCGTTAGAG	22
MiACT	AATGGAAGTGGAAATGGTCAAGGC	23	TGCCAGATCTTCTCCATGTCATCCCA	26

**Table S2.** Gene information for the verification study.

<b>Gene-ID</b>	<b>Gene Length</b>	<b>Gene Name</b>	<b>Description</b>	<b>KO ID</b>
Cluster-15176.18801	3667	VTE1	tocopherol cyclase	K09834
Cluster-15176.18933	4298	TAT	tyrosine aminotransferase	K00815
Cluster-15176.23122	3165	LOX1_5	linoleate 9S-lipoxygenase	K15718
Cluster-15176.16646	5071	4CL	4-coumarate--CoA ligase	K01904
Cluster-15176.29835	2887	SXD1	tocopherol cyclase	K09834
Cluster-15176.24151	1825	fabI	enoyl-	K00208
Cluster-15176.8468	1555	wrbA	NAD(P)H dehydrogenase (quinone)	K03809
Cluster-15176.23123	789	LOX1_5	linoleate 9S-lipoxygenase	K15718
Cluster-15176.7778	1716	accA	acetyl-CoA carboxylase carboxyl transferase subunit alpha	K01962

**Table S3.** Gene information for the eight highly expressed genes.

<b>Gene-ID</b>	<b>Gene Length</b>	<b>Gene Name</b>	<b>Description</b>	<b>NR Score</b>
Cluster-15176.332	2737	E5.5.1.13	ent-copalyl diphosphate synthase	1452
Cluster-15176.12278	2763	KAO	ent-kaurenoic acid hydroxylase	1032
Cluster-15176.3380	1576	E1.14.11.13	gibberellin 2-oxidase	1012
Cluster-19253.0	912	GA3, CYP701	ent-kaurene oxidase	683
Cluster-15991.0	1686	E1.14.11.13	gibberellin 2-oxidase	888
Cluster-3324.0	1568	E1.14.11.13	gibberellin 2-oxidase	1283
Cluster-15176.1075	2113	CYP82G1	cytochrome P450, family 82, subfamily G, polypeptide 1	1966
Cluster-15176.3381	1371	E1.14.11.13	gibberellin 2-oxidase	1335