

**Table S1.** Primers used for qRT-PCR of the 12 randomly selected differentially expressed genes (DEGs).

Gene ID	Gene description (EC number) <sup>a</sup>	Forward primer (5'→3')	Reverse primer (5'→3')	T <sub>m</sub> (°C) <sup>b</sup>	Amplicon size (bp)	Efficiency <sup>c</sup>
Cluster-13677.166560	MEKK1P	CCACGGAGGCCATGTTTCATC	GCTTCCCAGAAGAGCACCAC	60	86	0.99
Cluster-13677.90901	PR1	GACTGCCAGCTGGTTCACTC	AACTGCTTCTCGGACACCCA	59	116	0.92
Cluster-13677.341984	4CL	GCGACGTCGTCCTTCTCCTC	GGCGGTGTAGAGTGGGTTGG	62	110	0.99
Cluster-13677.264040	POD(EC1.11.1.7)	CGGTGAATACCACGGTGAAC	ACAAACTGCTCGAAGAAGGC	56	181	0.91
Cluster-13677.166670	BGL32(EC3.2.1.21)	ATGGTTCATGCATCCGTTGG	CCGGAATCCTTCTTCTCGGA	56	183	0.96
Cluster-13677.452329	SAUR	CCGATTCTGCCATCGAGGTG	TTTGTGGACACGACGGAAGC	58	145	0.99
Cluster-13677.185631	JAR1	CAGAGCTCCGGTTCATCTGC	AGCTTTGCTGCCTCCTCAAC	58	103	0.94
Cluster-13677.108047	CTR1	AACCTTTCAATTGTGACTGA	ATTGGAGGATTACGCTTATG	50	158	0.99
Cluster-13677.366599	TGA	TAATTTACGGCTGCAAACAC	CCAAAGAGAACTCAAAGCAC	52	121	1.02
Cluster-13677.230082	CPK	ATCTGCGTGGGTTAGTTCAC	ATCTGACTCAGGACCAGACC	56	200	1.02
Cluster-13677.11606	TPS14	TGCATGACATGTCTCACCTG	TCAGACTCAGGTGGTAAGGG	56	159	0.97
Cluster-13677.187106	PFP(EC2.7.1.90)	CACCAGGAATCAGATAACTC	GAAGTTCCTTCCCTTGTATC	53	123	0.98
	GAPDH (reference gene)	CACGGCCACTGGA AGCA	TCCTCAGGGTTCCTGATGCC	58	101	1.01

<sup>a</sup> MEKK1P, mitogen-activated protein kinase kinase kinase 1, plant; PR1, pathogenesis-related protein 1; 4CL, 4-coumarate-CoA ligase; POD, peroxidase; BGL32, beta-glucosidase-32; SAUR, small auxin up RNA/SAUR-like auxin-responsive protein family; JAR1, jasmonic acid-amido synthetase; CTR1, serine/threonine-protein kinase CTR1; TGA, transcription factor TGA; CPK, calcium-dependent protein kinase; TPS14, S-linalool synthase; PFP, pyrophosphate--fructose-6-phosphate 1-phosphotransferase; GAPDH, glyceraldehyde-3-phosphate dehydrogenase. <sup>b</sup> T<sub>m</sub>, melting temperature of primers. <sup>c</sup> SYBR green based qRT-PCR efficiencies were calculated according to the standard curves of serial dilutions of total cDNA from the sugarcane leaf sample.