

Table S1 Concentration of RNA and detection of RIN value.

Sample number	concentration (ng/ul)	volume (ul)	The total (ug)	Integrity value	Detection conclusion
CK-1	539	35	18.865	6.8	A
CK-2	918	35	32.13	6.7	A
CK-3	713	35	24.955	6.8	A
Al-1	834	35	29.19	6.7	A
Al-2	729	35	25.515	6.8	A
Al-3	793	35	27.755	6.9	A
Al+NO-1	692	35	24.22	7	A
Al+NO-2	1117	35	39.095	7	A
Al+NO-3	990	35	34.65	7.1	A

Table S2 Primers used in this experiment and their sequences.

Gene name	Gene ID	Forward Primer(5'-3')	Reverse Primer(5'-3')
SOD	Cla97C10G187890	TCAATCTCTTCCTCTCAGAACAAT G	TGCTCAAGTCCACATCAACAC
SOD[Mn]	Cla97C03G050910	TTCAATGGCGGAGGTCACA	ATCAAGGCTTCAAGAGAACCAA
SOD[Cu-Zn]2	Cla97C04G071940	CTTCCATATCCATTCTCTTGGTGAT	CCAGTCGTCTTGCTAAGTTTCAT
SOD[Cu-Zn]1	Cla97C02G042100	CGGTGATGATGGTACTGCTACT	TGGTCAGGCTAAGTTCGGTTC
POD2-1	Cla97C01G005010	AACGGCGATTGAACGACTTC	CGAATGCGTCTGGAGTTGTC
POD2-2	Cla97C02G049950	CAAGATGGTATAGTGAGCGAGTT	AAGAGACGATGCCTGGACAA
POD2-3	Cla97C02G049940	ACCGATCTTGTTGCCTTATCTG	ACTTGGTCGCTGGTGAGAA
POD2-4	Cla97C02G049930	CAATGGATGTGATGGCTCTGT	CGCTATTCTACTGTCTCGTCTT
CAT3	Cla97C08G152180	CGCCTTGGACCTAACTATCTTC	TACGAACCGCTCTTGCCTAT
CAT1	Cla97C11G224830	TCGTGTTGGAGGAAGTAATCATAG	CAGGAATAATAATGGCAGGACAA
NR1	Cla97C11G221570	ACTGGAGGTTGAGGTTCTTGA	TTGATTGGCGTCGGTGGAT
NR[NADH]	Cla97C03G060420	GTCGTTCTGCTCCTTCAAGTC	TCCTCCTCCTCTGTTCTATCT
NR[3]	Cla97C03G060430	AGACGACGCAATCCACCTAC	TCCACCTCCACTGACCAGAA
PAL-1	Cla97C07G138620	CAGAGGCACGGATAGTTATGGT	CGTTGTGGTTCAAGAGATTAGCA
PAL-2	Cla97C04G075850	ACTCGTCTGGCTATTGCTTCA	AATATCAATGGCTTCGGCTGTT
PAL-3	Cla97C04G075820	GGTTAGGTCCATTGATTGAAGTGA	CCAGGCGAGTGTTGTCCAT
4CL	Cla97C07G130540	ATTGGCTACATACTGGAGACATTG	AGTGTGCTTCCTGGCTTCTT
CCR	Cla97C10G195850	ATGACTGCTGCCGCTGAAG	TGCTGCTTGTTCTGCCATTGT
POD55	Cla97C11G214530	ATCCGACCACTCCAGACACT	GCTTCCTCATCGCCTCTACAA
POD21	Cla97C10G203590	ACTCCATTGGCATTGATACTGAAG	ATTCTTGATCCACTATGAGCAACC
POD73	Cla97C01G016570	AGTCTCCTGTGCCGATATTCTC	AGTGCGATCATGTCTTGTGTG
PDON1	Cla97C09G177290	GCTTGTCTGGCATTGTATCT	GTGAAGTTGAAGAGTCTGTAGTT G
POD53	Cla97C09G177060	AGAACGGCTTGTGGTCATTC	GAGGCCAACACTTCATCCAT
CIYLS8	Cla020175	AGAACGGCTTGTGGTCATTC	GAGGCCAACACTTCATCCAT

Table S3 Transcriptome sequencing quality assessment.

sample	raw_reads	clean_reads	Q20	Q30	GC_pct	total_map
CK_1	44741680	42462940	97.52	92.87	45.34	41668916(97.24%)
CK_2	41150186	39328886	97.65	93.17	45.49	43233770(97.4%)
CK_3	46118962	43694666	97.59	93.06	45.7	41404184(97.49%)
AI_1	45513698	42893180	97.72	93.34	45.54	41841950(97.55%)
AI_2	43501094	41127054	97.55	92.98	45.76	40005418(97.27%)
AI_3	41087334	38884134	97.59	93.03	45.95	37835260(97.3%)
AI+NO_1	45603270	42850482	97.64	93.2	45.92	41315139(97.3%)
AI+NO_2	46908270	44389830	97.52	92.92	45.6	38304143(97.39%)
AI+NO_3	45249970	42472336	97.74	93.35	45.57	42535403(97.35%)

Table S7 Transcriptional abundance of three antioxidant enzymes and NR genes.

Gene name	Gene ID	CK(FPKM)	Al(FPKM)	Al+NO(FPKM)
SOD	Cla97C10G187890	147.5843	202.8647	161.8484
SOD[Mn]	Cla97C03G050910	209.0378	219.7295	193.1981
SOD[Cu-Zn]2	Cla97C04G071940	61.81642	94.56039	83.89868
SOD[Cu-Zn]1	Cla97C02G042100	5.188983	7.134032	6.464014
POD2-1	Cla97C01G005010	0.565454	0.397759	0.835002
POD2-2	Cla97C02G049950	274.8846	93.72426	156.6937
POD2-3	Cla97C02G049940	779.7704	487.9261	665.3568
POD2-4	Cla97C02G049930	14.48687	25.99696	50.24186
CAT3	Cla97C08G152180	3963.484	5162.771	6082.668
CAT1	Cla97C11G224830	313.056	417.6664	506.8128
NR1	Cla97C11G221570	0.525555	0.318489	0.767888
NR[NADH]	Cla97C03G060420	1598.972	1198.411	1692.085
NR[3]	Cla97C03G060430	0.039596	0.060603	0.190951