

Supplementary Table 2. Expression levels of key genes involved in the synthesis, degradation, and signaling of plant hormones in different tissues, based on Clevenger et al.^[24].

		MainLeaf	Root	Flwr	AerPeg	SubPeg	ExpPod	GynStlk	PodPt3	PerPt5	SdPt5	PerPt6	SdPt6	SdPt7	SdPt8	SdPt10
arahy.Tifrunner.gnm2.ann1.R3KIKB	ACS	51.44	96.59	105.92	50.12	68.64	61.86	129.60	127.89	151.85	9.43	272.92	15.88	18.72	7.10	4.31
arahy.Tifrunner.gnm2.ann1.L5R9I5	ACS	0.00	0.24	0.02	0.00	0.17	1.60	0.00	0.52	0.15	19.75	0.04	35.15	30.41	13.33	0.00
arahy.Tifrunner.gnm2.ann1.H8WHKS	ACO	13.24	53.83	1808.77	53.06	106.00	20.26	1.21	35.19	15.71	127.88	21.63	104.72	59.99	82.00	98.06
arahy.Tifrunner.gnm2.ann1.NK5JY0	ETR1	0.35	6.55	6.11	17.20	12.50	37.06	4.93	53.32	29.33	13.96	38.21	22.20	8.49	10.08	3.89
arahy.Tifrunner.gnm2.ann1.6QHG67	CTR1	1.56	4.43	0.27	2.32	1.85	4.81	1.13	5.15	3.33	12.34	2.99	16.06	17.58	11.34	20.21
arahy.Tifrunner.gnm2.ann1.W3VJBC	EIN2	10.47	12.57	6.94	14.18	13.19	17.57	7.27	13.69	14.41	16.69	9.76	16.98	13.92	11.55	6.29
arahy.Tifrunner.gnm2.ann1.J729H0	EIN3	51.48	39.58	155.40	166.46	107.61	181.75	71.08	213.58	193.91	66.07	163.56	82.71	46.24	28.34	44.36
arahy.Tifrunner.gnm2.ann1.A5JFP2	ABA1	5.51	14.30	7.21	4.99	4.15	7.40	7.54	10.81	9.13	10.79	8.40	20.15	20.90	15.82	6.53
arahy.Tifrunner.gnm2.ann1.GV0PL5	NCED	106.11	18.99	22.86	37.03	8.12	11.95	8.84	15.95	17.70	28.49	16.69	22.89	12.61	8.98	5.31
arahy.Tifrunner.gnm2.ann1.I21QA9	AAO3	9.27	7.59	30.50	7.04	4.09	3.46	1.17	2.60	3.03	6.82	2.58	7.71	5.69	5.60	6.72
arahy.Tifrunner.gnm2.ann1.YRF88J	CYP707A	11.18	46.93	4.69	8.07	6.07	3.49	9.56	9.29	31.82	1.58	53.72	3.89	11.55	7.64	4.01
arahy.Tifrunner.gnm2.ann1.LXP1WJ	CYP707A	46.59	255.41	26.08	32.12	10.39	108.49	38.20	284.97	314.30	6.80	369.56	38.08	51.61	11.81	2.94
arahy.Tifrunner.gnm2.ann1.1A1ACU	ABI5	5.49	1.39	0.19	2.13	0.43	0.05	0.45	0.07	0.32	3.42	0.22	6.93	29.63	40.98	27.69
arahy.Tifrunner.gnm2.ann1.B9A4XU	ABI5	0.65	1.07	0.84	0.70	0.09	0.60	0.71	0.83	1.26	2.10	0.72	11.98	38.21	46.52	33.71
arahy.Tifrunner.gnm2.ann1.X7VV7H	PP2C	0.02	0.03	0.02	0.05	0.03	0.23	0.05	0.06	0.07	1.96	0.12	6.73	19.77	54.81	145.93
arahy.Tifrunner.gnm2.ann1.52QCLV	PP2C	2.66	7.83	16.45	4.63	4.59	6.09	4.90	10.87	7.79	18.10	8.88	62.66	63.11	24.86	24.65
arahy.Tifrunner.gnm2.ann1.47A3W6	GA20ox	0.02	0.01	0.00	0.01	0.02	0.11	0.00	5.84	1.28	430.14	0.04	180.97	35.71	15.40	7.29
arahy.Tifrunner.gnm2.ann1.V5BWVI	GA2ox	1.38	9.96	12.60	59.53	11.86	27.04	0.57	167.31	33.21	1885.88	19.28	2092.02	1095.96	887.25	326.54
arahy.Tifrunner.gnm2.ann1.PVQF0C	GAMT	4.94	67.98	1.91	33.72	36.07	3.88	39.54	31.86	106.30	0.00	156.79	6.89	1.37	0.00	0.10
arahy.Tifrunner.gnm2.ann1.WFXD84	GID	54.80	25.00	32.13	54.83	27.05	50.20	19.99	40.77	30.53	37.37	17.45	50.01	30.21	17.19	10.83
arahy.Tifrunner.gnm2.ann1.ELEE28	GID	11.51	9.73	5.96	13.94	16.49	23.98	4.47	15.12	6.54	25.98	4.61	16.98	14.79	7.50	3.37
arahy.Tifrunner.gnm2.ann1.DN4CQF	DELLA	22.74	28.06	18.81	60.62	38.62	77.41	30.75	72.63	48.37	58.60	37.18	40.29	32.76	32.89	27.69
arahy.Tifrunner.gnm2.ann1.9RJMSZ	SLY1	9.09	8.58	9.81	6.09	6.42	9.10	4.46	12.71	10.73	5.92	10.20	6.27	4.57	3.83	2.43

arahy.Tifrunner.gnm2.ann1.QXG3RX	ACS#	26.12	15.16	25.84	25.65	18.95	20.55	7.22	14.46	14.97	17.48	16.14	17.70	13.13	8.32	8.21
arahy.Tifrunner.gnm2.ann1.I9A8PV	ACS#	11.41	17.97	3.89	24.92	5.47	25.16	6.35	43.04	44.93	5.39	36.21	6.57	5.60	3.08	2.79
arahy.Tifrunner.gnm2.ann1.9G9LXM	MFP	19.93	47.20	22.58	34.60	27.25	30.09	30.25	39.75	67.60	25.11	71.51	24.61	27.55	18.03	10.21
arahy.Tifrunner.gnm2.ann1.M7AF0M	MFP	29.74	19.05	52.73	25.78	21.16	20.24	11.47	23.31	22.72	32.29	18.19	23.89	19.48	14.43	11.38
arahy.Tifrunner.gnm2.ann1.I9R4QS	MFP	11.01	13.75	34.54	11.52	6.59	4.97	2.43	7.26	10.39	9.06	10.30	21.42	14.61	6.26	12.18
arahy.Tifrunner.gnm2.ann1.Y9QREV	CTS	12.71	15.23	31.37	10.60	9.17	10.91	8.81	11.46	13.29	12.20	12.72	12.27	11.52	9.88	7.49
arahy.Tifrunner.gnm2.ann1.74EXT1	KAT	49.88	49.63	347.78	55.05	46.92	38.70	22.29	31.69	43.49	66.75	42.90	47.21	44.98	36.19	55.05
arahy.Tifrunner.gnm2.ann1.K55J2B	KAT	17.65	53.35	45.26	97.68	30.23	77.89	37.16	147.98	164.13	11.08	131.21	14.44	6.91	2.86	4.43

ACS: 1-Aminocyclopropane-1-Carboxylate Synthase; *ACO*: 1-Aminocyclopropane-1-Carboxylate Oxidase; *ETR1*: Ethylene Response Sensor 1; *CTR1*: Constitutive Triple Response 1; *EIN2*: Ethylene Insensitive 2; *EIN3*: Ethylene Insensitive 3; *ERF1B*: Ethylene Response Factor 1B; *ABA1*: Zeaxanthin Epoxidase; *NCED*: 9-cis-epoxycarotenoid dioxygenase; *AAO3*: Absciscic Aldehyde Oxidase 3; *CYP707A*: Cytochrome P450, Family 707, Subfamily A; *ABI5*: Absciscic Acid Insensitive 5; *PP2C*: Protein Phosphatase 2C; *GA20ox*: Gibberellin 20 Oxidase; *GA2ox*: Gibberellin 2 Oxidase; *GAMT*: Gibberellin Methyltransferase; *GID*: Gibberellin Insensitive Dwarf; *DELLA*: Aspartic acid (D), Glutamic acid (E), Leucine (L), Leucine (L), and Alanine (A)—in a conserved region of the protein; *SLY1*: SLEEPY1; *CTS*: Comatose/Peroxisomal ABC Transporter; *ACS#*: Acyl-CoA Synthetase. #, not to be confused with the ethylene-related *ACS*; *MFP*: Multifunctional Protein—Contains 2E-enoyl-CoA hydratase and 3S-hydroxyacyl-CoA dehydrogenase activities; *KAT*: 3-Ketothiolase.