

### Supplementary Table S3. DEGs identified in the salt-tolerant accession

Upregulated genes in the salt-tolerant leaves

Gene ID	Annotation	RLCK_rep1	RLCK_rep2	RLCK_rep3	mean	RLN_rep1	RLN_rep2	RLN_rep3	mean	ratio	adjusted p
Asa8G00068	alcohol dehydrogenase	25.1	24.46	26.28	25.28	220.64	218.13	231.47	223.41	8.84	4.30E-33
Asa1G03716	Usp domain-containing protein	13.72	17.02	21.3	17.35	178.39	141.95	145.58	155.31	8.95	7.68E-32
Asa7G03863	FAS1 domain-containing protein	1.17	1.43	1.57	1.39	11.15	9.3	7.91	9.45	6.8	1.98E-18
Asa7G00387	MYB transcription factor	2.25	2.33	2.49	2.36	20.73	16.47	21.17	19.46	8.26	1.65E-17
Asa7G05866	LRRNT_2 domain-containing protein	3.78	7.39	7.93	6.37	65.55	59.82	78.78	68.05	10.69	4.91E-16
Asa7G05863	LRRNT_2 domain-containing protein	9.9	18.55	16.45	14.97	156.14	142.71	190.42	163.09	10.9	3.53E-15
Asa4G03524	BTB domain-containing protein	3.78	3.72	4.84	4.11	17.1	23.65	20.13	20.29	4.93	3.58E-15
Asa7G05862	LRRNT_2 domain-containing protein	9.82	18.55	16.4	14.92	156.05	142.61	190.42	163.03	10.92	3.91E-15
Asa5G03885	Tocopherol methyltransferase	0.8	0.46	0.58	0.61	5.38	8.6	7.74	7.24	11.8	9.54E-15
Asa5G04068	1-aminocyclopropane-1-carboxylate oxidase 2	10.68	20.17	21.76	17.54	82.75	78.39	71.61	77.58	4.42	9.98E-14
Asa6G01181	TF-B3 domain-containing protein	2.49	2.39	4.57	3.15	16.86	19.84	18.48	18.39	5.84	1.35E-13
Asa7G03077	Superoxide dismutase	3.91	3.84	4.73	4.16	18.05	21.82	23.55	21.14	5.08	1.60E-13
Asa3G02258	Cytochrome P450	0	0.02	0.1	0.04	5.96	14.42	10.72	10.37	259.17	3.27E-13
Asa5G02304	Early nodulin-93	0.71	0.16	0.22	0.36	14.97	15.62	23	17.86	49.17	3.36E-13
Asa8G04181	Alcohol dehydrogenase	6.14	7.27	7.56	6.99	28.64	32.71	37.08	32.81	4.69	2.70E-12
Asa5G03903	Heavy metal-associated isoprenylated plant protein	2.4	1.78	2.21	2.13	15.09	12.6	9.49	12.39	5.82	8.93E-12
Asa0G00437	Glutathione S-transferase	422.2	382.93	458.23	421.12	1493.22	1601.98	1339.27	1478.16	3.51	1.24E-11
Asa2G06440	Putative argonaute family protein	3.31	3.73	3.62	3.55	12.88	16.72	17.26	15.62	4.4	1.50E-11
Asa6G06192	NAB domain-containing protein	3.52	3.14	3.7	3.45	11.07	15.85	11.01	12.64	3.66	1.68E-11
Asa2G05210	HMG box domain-containing protein	35.37	41.71	44.97	40.68	153.09	169.1	127.13	149.77	3.68	2.22E-11
Asa6G00382	RNA-binding protein	130.41	113.34	118.2	120.65	343.47	466.41	426.7	412.19	3.42	2.23E-11
Asa2G06677	DUF4005 domain-containing protein	3.96	3.37	4.71	4.01	13.57	16.74	15.08	15.13	3.77	2.96E-11
Asa2G05211	HMG box domain-containing protein	20.79	25.47	25.52	23.93	92.53	102.87	76.76	90.72	3.79	2.97E-11
Asa5G00700	GDSL esterase/lipase	3.45	2.03	3.34	2.94	11.15	13.23	11.61	12	4.08	1.15E-10
Asa0G02660	Glycosyltransferase	5.37	6.48	9.23	7.03	21.4	29.38	26.15	25.64	3.65	3.04E-10
Asa0G00825	Unknown protein	1.36	0.73	3.2	1.76	11.03	11.18	10.01	10.74	6.09	4.28E-10
Asa6G02030	Nop domain-containing protein	21.79	18.97	18.48	19.75	53.76	72.15	65.33	63.75	3.23	6.35E-10
Asa0G03399	acid beta-fructofuranosidase-like	59.13	64.46	67.05	63.55	173.73	228.04	225.69	209.15	3.29	6.40E-10
Asa4G04450	Sorghum bicolor protein targeted either to mitochondria or chloroplast proteins T50848	72.7	54.45	37.11	54.75	194.63	177.9	152.96	175.16	3.2	1.52E-09
Asa5G01836	Tryptophan aminotransferase-related protein 4	0	0	0	0	1.97	5.9	5.88	4.58	458.33	1.62E-09
Asa6G03055	beta-fructofuranosidase 1	60.75	64.88	66.91	64.18	176.52	228.73	197.19	200.81	3.13	2.04E-09
Asa2G05184	Glutathione S-transferase	0.72	1.02	1.07	0.94	3.45	5.01	3.89	4.12	4.4	2.42E-09
Asa6G04605	Delta-1-pyrroline-5-carboxylate synthase	4.91	4.66	6.31	5.29	19.21	23.46	26.35	23.01	4.35	2.90E-09
Asa6G05355	Alpha,alpha-trehalose-phosphate synthase	6.68	6.71	6.51	6.63	19.31	25.81	17.77	20.96	3.16	3.41E-09
Asa2G04907	Cold regulated protein 27	7.46	3.74	3.23	4.81	21.09	17.56	17.67	18.77	3.9	4.00E-09
Asa6G05180	UPF0481-like protein	1.85	2.45	3.35	2.55	11.36	10.62	7.5	9.83	3.85	5.66E-09
Asa7G03750	Cyclin	1.46	1.35	1.63	1.48	5.33	8.7	7.12	7.05	4.76	6.48E-09
Asa7G06821	rRNA 2'-O-methyltransferase fibrillarin	40.19	36.17	37.03	37.8	96.34	126.83	125.96	116.38	3.08	6.53E-09
Asa5G03265	Class I heat shock-like protein	54.13	41.37	56.62	50.71	173.74	142.06	176.11	163.97	3.23	8.34E-09
Asa7G00755	Nucleolar pre-ribosomal-associated protein 1	0.98	0.95	1.23	1.05	3.08	4.71	3.44	3.74	3.55	9.79E-09
Asa7G05831	Polygalacturonase	0.57	0.5	0.79	0.62	3.21	4.15	3.43	3.6	5.8	1.93E-08
Asa0G03977	NUFIP1 domain-containing protein	3.03	2.17	2.23	2.48	7.08	10.66	7.94	8.56	3.46	1.94E-08

Asa4G04023	Glutathione S-transferase	15.21	21.38	19.83	18.81	56.61	65.33	58.17	60.04	3.19	3.21E-08
Asa5G03572	probable rRNA-processing protein EBP2 homolog	21.85	19.3	20.89	20.68	50.61	73.61	66.08	63.43	3.07	3.91E-08
Asa0G03398	beta-fructofuranosidase 1	66.26	70.42	70.94	69.21	189.78	244.24	162.11	198.71	2.87	4.19E-08
Asa6G04606	Delta-1-pyrroline-5-carboxylate synthase	5.26	4.21	5.8	5.09	17.72	20.96	24.55	21.08	4.14	4.56E-08
Asa4G05372	C2H2-type domain-containing protein	106.6	86.93	100.03	97.85	266.4	408.75	354.75	343.3	3.51	4.92E-08
Asa8G02291	DUF4057 domain-containing protein	11.28	13.88	16.12	13.76	37.7	52.1	50.48	46.76	3.4	5.43E-08
Asa1G04080	Glutathione S-transferase	12.59	10.39	10.66	11.21	31.34	38.59	34.31	34.75	3.1	6.98E-08
Asa0G04659	Superoxide dismutase	2.83	3.15	2.87	2.95	13.06	14.41	13.49	13.65	4.63	8.06E-08
Asa8G02356	Unknown protein	3.19	2.51	4.28	3.33	13.32	12.08	15.85	13.75	4.13	8.15E-08
Asa5G04334	PMEI domain-containing protein	6.49	3.1	7.89	5.83	17.4	24.53	23.06	21.66	3.72	1.36E-07
Asa1G04599	PREDICTED: homeobox-leucine zipper	2.8	3.08	2.89	2.92	8.46	10.79	10.18	9.81	3.36	1.40E-07
Asa0G03209	DNA-damage-repair/toleration protein	2.34	3.02	2.99	2.78	12.54	9.3	10.57	10.8	3.88	1.79E-07
Asa0G03535	FAD_binding_3 domain-containing protein	15.43	22.53	27.62	21.86	65.65	74.81	83.82	74.76	3.42	1.90E-07
Asa4G05697	AT-hook motif nuclear-localized protein	14.37	14.92	15.67	14.99	38.69	49.94	52.69	47.11	3.14	2.25E-07
Asa5G00832	WD_REPEATS_REGION domain-containing protein	15.22	14.19	16.88	15.43	35.31	47.76	45.8	42.96	2.78	2.27E-07
Asa3G02030	PREDICTED: long chain acyl-CoA synthetase	22.88	13.89	24.29	20.35	52.93	59.94	66.06	59.64	2.93	2.83E-07
Asa1G04440	vacuolar-processing enzyme	80.08	69.14	60.97	70.06	216.63	241.59	288.99	249.07	3.55	2.83E-07
Asa0G04964	Non-symbiotic hemoglobin, putative	218.61	184.49	156.7	186.6	497.71	536.24	507.14	513.7	2.75	2.97E-07
Asa7G01394	Glycos_transf_1 domain-containing protein	19.57	18.96	19.6	19.38	47.62	64.4	44.26	52.09	2.69	3.12E-07
Asa7G03512	Regulator of Vps4 activity in the MVB pathway protein, putative	1.41	1.58	1.18	1.39	5.19	5.85	7.19	6.08	4.37	3.14E-07
Asa7G06817	vacuolar-processing enzyme	80.54	69.65	61.01	70.4	216.49	241.95	289.19	249.21	3.54	3.31E-07
Asa6G03848	Sequence-specific DNA binding transcription factor	4.96	4.58	4.57	4.7	19.11	35.15	26.62	26.96	5.73	3.41E-07
Asa5G01566	Lipoxygenase	15.42	14.02	21.63	17.02	119.18	78.15	79.05	92.13	5.41	4.05E-07
Asa0G01843	NUFIP1 domain-containing protein	3.28	2.8	3.31	3.13	8.12	12.05	8.67	9.61	3.07	4.09E-07
Asa2G02244	Gamma-irradiation and mitomycin c induced 1	0.1	0.17	0.13	0.13	0.57	0.93	0.61	0.7	5.27	4.09E-07
Asa3G03426	Xyloglucan endotransglucosylase/hydrolase	0.09	0.05	0.17	0.1	0.99	2.06	1.32	1.46	14.1	4.18E-07
Asa3G03884	Late embryogenesis abundant protein	0	0.11	0	0.04	15.72	12.92	29.25	19.3	526.27	4.54E-07
Asa5G04416	tRNA pseudouridine synthase B family	4.59	3.95	4.92	4.49	11.07	16.34	11.13	12.85	2.86	5.33E-07
Asa1G00939	HTH-type transcriptional regulator protein ptxE	2.32	1.78	1.91	2	8.63	16.34	12.89	12.62	6.3	6.17E-07
Asa5G05592	Cytochrome P450 family protein, expressed	5.32	1.81	4.51	3.88	10.8	14.98	13.64	13.14	3.39	6.24E-07
Asa3G04155	Pyruvate decarboxylase	37.72	36.36	46.42	40.17	92.66	114.64	120.18	109.16	2.72	6.34E-07
Asa3G03580	Putative ATP synthase subunit g, mitochondrial-like	2.22	1.61	3.48	2.44	7.28	9.78	9.2	8.75	3.59	8.14E-07
Asa8G02873	AP2/ERF domain-containing transcription factor	15.83	16.25	15.86	15.98	42.94	52.36	34.95	43.42	2.72	8.50E-07
Asa8G04000	GDSL esterase/lipase	7.58	4.59	7.28	6.48	21.09	19.76	25.36	22.07	3.4	8.63E-07
Asa7G05861	Polygalacturonase inhibitor protein	15.41	15.11	21.43	17.32	74	68.18	44.67	62.28	3.6	8.86E-07
Asa1G03116	MYB-related transcription factor	6.47	4.9	9.04	6.8	25.67	22.31	16.8	21.59	3.17	9.10E-07
Asa4G06437	tRNA pseudouridine synthase B family	3.76	2.76	3.64	3.39	8.67	12.28	8.29	9.75	2.88	9.36E-07
Asa4G04015	RNA binding protein	42.03	40.37	43.44	41.95	95.68	145.42	125.73	122.28	2.92	1.01E-06
Asa1G04399	Homeobox protein, putative	124.24	133.72	132.74	130.23	344.05	394.25	289.27	342.52	2.63	1.12E-06
Asa6G05961	Cryptochrome	9.23	9.82	10.54	9.86	25.75	28.49	28.46	27.57	2.79	1.19E-06
Asa1G04136	Glutamine amidotransferase type-2 domain-containing protein	20.61	19.6	23.29	21.17	51.01	67.68	70.39	63.03	2.98	1.52E-06
Asa3G00251	Plant cysteine oxidase 2	2.09	2.46	2.49	2.35	7.23	9.4	8.68	8.44	3.6	1.57E-06

Asa8G06192	Unknown protein	5.53	4.91	6.95	5.8	20.73	23.22	15.41	19.79	3.41	1.64E-06
Asa1G04590	PREDICTED: homeobox-leucine zipper	5.11	5.38	5.27	5.25	13.79	16.73	12.54	14.35	2.73	1.81E-06
Asa4G01307	DNA helicase	5.1	3.7	4.84	4.55	13.39	22.7	15.74	17.28	3.8	1.87E-06
Asa6G05066	Unknown protein	0.83	0.62	0.63	0.69	56.3	53.06	116.58	75.31	108.62	1.93E-06
Asa3G02287	DNA replication licensing factor MCM7	3.53	3.67	4.11	3.77	12.99	23.62	18.68	18.43	4.89	2.02E-06
Asa6G06172	ATP-dependent RNA helicase	23.2	21.24	22.39	22.28	49.15	75.78	55.83	60.25	2.7	2.16E-06
Asa7G00754	Nucleolar pre-ribosomal-associated protein 1	3.07	3.03	2.43	2.84	10.28	10.56	8.01	9.62	3.38	2.34E-06
Asa4G04588	Elongation factor 1-beta 1	154.18	153.99	160.76	156.31	317.86	465.14	399.97	394.32	2.52	2.60E-06
Asa4G01308	DNA helicase	3.92	4.2	4.55	4.22	14.37	25.96	18.34	19.56	4.63	2.72E-06
Asa4G06071	Tryptophan aminotransferase-related protein 4	21.47	23.34	34.11	26.31	65.58	78.54	65.45	69.86	2.66	2.87E-06
Asa6G04352	Early nodulin-93	0.24	0.54	0.18	0.32	17.08	15.93	32.48	21.83	68.22	3.09E-06
Asa6G00931	Auxin response factor	8.89	9.12	9.95	9.32	20.45	27.42	25.3	24.39	2.62	3.24E-06
Asa2G03391	Protein arginine N-methyltransferase	3.7	3.08	4.07	3.62	15.56	22.42	11.72	16.57	4.58	3.64E-06
Asa5G05210	PREDICTED: ATP-dependent RNA helicase	3.15	2.61	2.63	2.8	7.22	8.38	9.65	8.42	3.01	3.66E-06
Asa4G02510	Ethylene-responsive transcription factor ERF-like protein	6.69	4.3	5.13	5.37	15.88	17.07	15.99	16.31	3.04	3.72E-06
Asa3G02582	Dihydroflavonol 4-reductase	0.47	0.24	0.69	0.47	1.96	3.7	2.53	2.73	5.85	3.99E-06
Asa4G04780	Putative transcription factor bHLH family	6.22	5.85	7.74	6.6	17.35	26.72	25.37	23.15	3.51	4.29E-06
Asa1G04138	Glutamine amidotransferase type-2 domain-containing protein	68.94	60.89	70.57	66.8	156.48	172.52	185.3	171.43	2.57	4.32E-06
Asa6G06028	SHSP domain-containing protein	15.39	15.26	17.27	15.97	49.45	54.81	32.53	45.6	2.85	5.23E-06
Asa3G02781	GST C-terminal domain-containing protein	13.16	11.35	12.39	12.3	25.87	37.48	31.31	31.55	2.57	5.52E-06
Asa7G03751	Cyclin	1.42	1.37	1.82	1.54	5.07	8.87	8.01	7.32	4.76	5.58E-06
Asa4G01176	Ethylene-responsive transcription factor	118.36	132.6	133.05	128	296.83	350.99	340.37	329.4	2.57	5.63E-06
Asa7G03955	Subtilisin-like protease	0.02	0	0.01	0.01	0.4	0.32	0.37	0.36	36.33	5.80E-06
Asa2G03624	ENT domain-containing protein	9.71	7.92	9.35	8.99	22.01	27.31	20.47	23.26	2.59	5.94E-06
Asa1G04137	Glutamine amidotransferase type-2 domain-containing protein	61.06	54.42	63.06	59.51	152.26	169.78	125.49	149.18	2.51	6.03E-06
Asa5G04502	UPF0020 domain-containing protein	10.66	10.09	10.13	10.29	23.16	29.01	28.74	26.97	2.62	6.58E-06
Asa2G03630	Cellulose synthase	9.46	9.29	10.4	9.72	20.44	31.57	23.49	25.17	2.59	6.95E-06
Asa6G06355	Unknown protein	2.35	2.11	2.92	2.46	10.38	11.75	12.33	11.49	4.67	7.34E-06
Asa8G05009	Beta-glucosidase	2.47	2.41	2.42	2.43	7.06	8.19	5.35	6.87	2.82	7.60E-06
Asa4G04971	Heat shock protein 90	30.04	28.53	30.83	29.8	69.81	79.17	76.16	75.05	2.52	7.65E-06
Asa2G01005	NHL domain-containing protein	16.76	16.46	19.02	17.41	37.86	52.07	39.82	43.25	2.48	8.38E-06
Asa1G04397	Homeobox protein, putative	50.82	64.72	56.75	57.43	143.09	165.38	129.36	145.94	2.54	8.54E-06
Asa2G01440	Mitochondrial glycoprotein-like	1.49	1.6	1.97	1.69	6.25	6.64	6.05	6.31	3.74	8.79E-06
Asa6G03878	Exocyst subunit Exo70 family protein	2.2	2.43	2.97	2.53	8.15	15.05	11.33	11.51	4.54	9.08E-06
Asa3G04256	Protein kinase domain-containing protein	16.95	11.54	17.16	15.22	35.11	45.16	40.39	40.22	2.64	9.24E-06
Asa8G00439	EGF domain-specific O-linked N-acetylglucosamine transferase	0.36	0.17	0.34	0.29	1.26	1.81	1.73	1.6	5.52	9.87E-06
Asa8G00594	DNA-directed RNA polymerase	3.97	3.92	4.05	3.98	9.01	12.04	9.63	10.23	2.57	1.06E-05
Asa7G01216	Exostosin domain-containing protein	3.9	3.75	4.83	4.16	13.11	21.1	12.55	15.59	3.75	1.11E-05
Asa2G02116	Poly [ADP-ribose] polymerase	1.87	1.7	1.82	1.8	4.46	6.39	4.54	5.13	2.86	1.21E-05
Asa4G02418	Acyl-[acyl-carrier-protein] desaturase	7.69	8.81	10.08	8.86	25.75	24.75	23.84	24.78	2.8	1.22E-05
Asa4G05035	Urb2 domain-containing protein	3.04	3.27	3.43	3.25	7.67	10.05	7.16	8.29	2.55	1.26E-05
Asa1G04665	IQ domain-containing protein IQM3	7.52	8.53	8.78	8.28	18.48	25.86	18.57	20.97	2.53	1.31E-05
Asa2G05429	Nuclear pore complex protein Nup188	3.11	3.16	3.48	3.25	7.29	9.28	7.91	8.16	2.51	1.35E-05
Asa5G00546	rRNA biogenesis protein rrp5	5.36	5.04	5.61	5.34	11.23	15.39	12.2	12.94	2.42	1.40E-05

Asa7G05865	Polygalacturonase inhibitor	0.89	0.92	1.07	0.96	2.89	4.46	3.78	3.71	3.86	1.41E-05
Asa6G02702	Alcohol dehydrogenase, putative	31.2	26.28	34.76	30.75	60.49	89.84	68.45	72.93	2.37	1.46E-05
Asa7G06688	Glutathione S-transferase	9.91	10.17	8.07	9.38	41.03	69.93	75.08	62.01	6.61	1.49E-05
Asa1G03513	Reductase	0.05	0.09	0.43	0.19	10.61	43.05	49.58	34.41	181.12	1.52E-05
Asa6G04933	H/ACA ribonucleoprotein complex subunit	91.54	85.32	88.9	88.59	170.72	246.17	221.06	212.65	2.4	1.63E-05
Asa7G04927	NAC domain-containing protein	0.2	0.41	0.77	0.46	3.61	4.46	3.14	3.74	8.12	1.87E-05
Asa0G04509	Anthranilate synthase	3.01	2.46	2.64	2.7	6.86	8.18	9.63	8.22	3.04	2.06E-05
Asa2G07067	FAD_binding_3 domain-containing protein	9.35	11.58	12.66	11.2	29.33	32.24	38.88	33.48	2.99	2.30E-05
Asa8G02697	WD_REPEATS_REGION domain-containing protein	14.18	12.57	13.73	13.49	27.96	35.95	37.78	33.9	2.51	2.32E-05
Asa4G00735	Fatty acid hydroxylase domain-containing protein	12.89	11.85	13.86	12.87	33.75	33.04	34.38	33.72	2.62	2.50E-05
Asa6G06459	BHLH transcription factor	6.27	6.99	9.87	7.71	22.02	22.77	22.81	22.53	2.92	2.50E-05
Asa1G03751	Outer envelope pore protein 16-2, chloroplastic	16.83	15.47	18.79	17.03	57.09	90.17	97.28	81.51	4.79	2.67E-05
Asa7G06687	Glutathione S-transferase	172.3	151.77	188.61	170.89	517.78	830.43	859.54	735.92	4.31	2.89E-05
Asa6G00471	Wound-responsive family protein	3.07	3.32	1.86	2.75	9.05	11.66	12.91	11.21	4.08	2.89E-05
Asa4G01865	RNA binding protein	210.45	204.29	206.81	207.18	496.59	516.11	501.62	504.77	2.44	2.97E-05
Asa0G03896	Ia protein 1-like	34.37	30.36	34.4	33.04	73.84	90.02	67.86	77.24	2.34	2.98E-05
Asa5G02639	Protein kinase, putative	0.95	0.95	0.75	0.88	2.12	2.98	2.71	2.6	2.95	2.99E-05
Asa7G01851	Prolyl oligopeptidase family protein	0.65	0.36	0.46	0.49	1.36	1.85	1.86	1.69	3.45	3.01E-05
Asa8G04785	NHL domain-containing protein	9.86	10.3	12.8	10.99	23.4	35.08	24.08	27.52	2.5	3.03E-05
Asa2G05078	Ia protein 1-like	37.92	33.53	37.75	36.4	81.18	98.39	75.56	85.04	2.34	3.18E-05
Asa7G02455	Kinase family protein	10.38	11.52	12.75	11.55	22.86	33.56	30.41	28.94	2.51	3.32E-05
Asa4G05584	60 kDa chaperonin	25.58	22.03	24.78	24.13	54.12	62.62	54.78	57.17	2.37	3.43E-05
Asa3G03068	Nuclear transcription factor Y subunit C-4, putative	5.63	4.57	4.71	4.97	11.33	18.35	13.32	14.33	2.88	3.47E-05
Asa0G04495	Inosine-5'-monophosphate dehydrogenase	4.8	5.18	5.2	5.06	12.64	16.74	12.29	13.89	2.75	3.53E-05
Asa5G04860	Inosine-5'-monophosphate dehydrogenase	7.87	7.28	8.26	7.8	15.56	22.92	18.03	18.84	2.41	3.72E-05
Asa2G05715	Heat shock 70 kDa protein	528.28	482.89	620	543.72	1103.09	1387.53	1311.8	1267.47	2.33	3.87E-05
Asa7G06850	Zinc finger CCHC domain-containing protein	5.15	5.45	5.91	5.5	13.21	17.64	13.01	14.62	2.66	4.08E-05
Asa2G05234	DNA polymerase epsilon catalytic subunit	1	1.07	1.29	1.12	2.88	5.1	3.76	3.91	3.49	4.16E-05
Asa6G03995	Macrophage migration inhibitory factor	67.01	85.08	98.53	83.54	213.49	231.17	173.91	206.19	2.47	4.20E-05
Asa3G03067	Unknown protein	10.94	5.93	8.24	8.37	18.37	27.77	19.87	22	2.63	4.22E-05
Asa0G04029	Phosphotransferase	18.69	16.52	19.08	18.1	57.65	84.73	96.25	79.54	4.4	4.27E-05
Asa2G02186	peroxygenase-like	0.39	0.19	0.44	0.34	7.74	9.86	17.68	11.76	34.59	4.48E-05
Asa6G01270	Chaperone DnaK	42.18	40.06	44.47	42.24	88.28	111.57	95.48	98.44	2.33	4.56E-05
Asa2G06174	RNA binding protein	12.57	10.45	12.65	11.89	41.22	82.78	54.98	59.66	5.02	4.62E-05
Asa8G02695	WD_REPEATS_REGION domain-containing protein	15.76	14.02	15.32	15.03	30.58	39	40.23	36.6	2.43	4.77E-05
Asa0G03895	Cryptochrome	8.62	8.28	8.58	8.49	19.87	23.06	18.67	20.53	2.42	4.86E-05
Asa3G01073	CRC domain-containing protein	0.22	0.37	0.32	0.3	1.25	2.57	2.2	2.01	6.62	4.89E-05
Asa5G02237	Early nodulin-93	0.24	0.34	0.18	0.25	13.87	13.76	30.5	19.38	76.49	5.01E-05
Asa2G02082	Phytochrome	3.73	4.95	5.01	4.56	10.28	12.54	11.2	11.34	2.49	5.29E-05
Asa7G05135	GDSL esterase/lipase	4.75	5.13	6.12	5.33	11.1	16.07	13.97	13.71	2.57	5.30E-05
Asa6G04934	H/ACA ribonucleoprotein complex subunit	79.23	75.42	78.38	77.68	149.39	214.72	168.35	177.49	2.28	5.42E-05
Asa1G03227	mini-chromosome maintenance complex-binding protein	1.68	1.47	1.59	1.58	5.17	9.1	5.27	6.51	4.12	5.43E-05
Asa3G03312	Carboxypeptidase	1.58	0.62	1.42	1.21	2.99	4.25	3.33	3.52	2.92	5.49E-05

Asa8G02536	NAC domain-containing protein	0.88	1.18	0.78	0.95	2.71	4.39	4.18	3.76	3.97	5.50E-05
Asa4G00750	Putative 60S ribosomal protein L7	74.85	68.01	74.28	72.38	143.79	195.09	156.95	165.28	2.28	5.54E-05
Asa7G01192	Senescence-associated protein	1.77	2.09	2.11	1.99	5.73	9.73	7.54	7.67	3.85	5.56E-05
Asa0G02120	Unknown protein	152.08	121.58	144.69	139.45	302.35	328.62	372.28	334.42	2.4	5.72E-05
Asa6G04169	DNA-directed RNA polymerase subunit	5.44	6.33	6.45	6.07	11.77	16.09	15.63	14.5	2.39	5.78E-05
Asa7G00251	Protein kinase	2.68	1.86	2.5	2.35	5.84	10.14	8.98	8.32	3.55	5.91E-05
Asa4G00764	Hydroxyproline-rich glycoprotein family protein, putative isoform 2	0.89	0.46	0.95	0.77	1.93	3.26	2.78	2.66	3.47	5.94E-05
Asa5G00519	Unknown protein	0.07	0	0.06	0.04	0.45	229.48	254.66	161.53	3727.62	6.06E-05
Asa8G04505	High mobility group B protein	3.43	3.6	3.25	3.43	7.63	11.26	10.24	9.71	2.83	6.12E-05
Asa7G06189	cell division control protein 45 homolog	0.42	0.33	0.36	0.37	1.35	2.86	2.05	2.09	5.64	6.27E-05
Asa6G01192	glucomannan 4-beta-mannosyltransferase 9	14.09	12.68	16.44	14.4	28.12	40.99	28.77	32.63	2.27	6.29E-05
Asa2G02360	Cyclic AMP-responsive element-binding 3	1.98	0.99	2	1.66	4.47	7.47	7.03	6.32	3.82	6.31E-05
Asa2G06687	GTP-binding nuclear protein	212.35	205.47	215.6	211.14	415.67	550.31	479.16	481.71	2.28	6.57E-05
Asa7G03580	Tubulin-tyrosine ligase	8.12	7.87	8.62	8.2	17.74	20.97	20.11	19.61	2.39	6.74E-05
Asa4G02636	DNA-directed RNA polymerases II and V subunit 6B-like	20.39	19.33	23.06	20.93	48.27	58.95	46.26	51.16	2.44	6.74E-05
Asa8G00476	Sialidase domain-containing protein	5.55	4.96	4.64	5.05	10.96	15.67	10.45	12.36	2.45	6.83E-05
Asa4G00414	Retrovirus-related Pol polyprotein from transposon TNT 1-94	1.87	1.97	1.98	1.94	4.64	6.34	4.35	5.11	2.63	6.96E-05
Asa7G07105	Putative GTP-binding protein EngB	3.35	3.16	2.53	3.01	7.56	12.2	7.66	9.14	3.03	6.98E-05
Asa8G02530	Protein kinase domain-containing protein	0.16	0.18	0.09	0.14	2.22	1.12	2.25	1.86	13	7.27E-05
Asa0G04874	RING-type domain-containing protein	10.53	11.51	10.73	10.92	22.94	33.28	27.57	27.93	2.56	7.57E-05
Asa3G02334	40S ribosomal protein SA	67.49	65.36	72.76	68.54	132.89	178.58	159.4	156.96	2.29	7.66E-05
Asa2G05304	MYB-related transcription factor	13.67	12.83	10.37	12.29	25.78	38.6	25.86	30.08	2.45	7.68E-05
Asa0G02121	Gibberellin-regulated protein 1	505.51	408.05	485.81	466.46	988.59	1117.84	1103.85	1070.09	2.29	7.69E-05
Asa4G00762	Homeobox protein, putative	4.15	4.68	4.83	4.55	10.2	16.77	11.51	12.83	2.82	7.70E-05
Asa3G03684	Unknown protein	6.84	2.97	3.84	4.55	13.31	18.06	20.59	17.32	3.81	7.75E-05
Asa1G02705	protein SMAX1-LIKE 3-like	0.12	0.18	0.13	0.14	0.98	2.13	1.12	1.41	9.84	8.36E-05
Asa7G07166	10 kDa chaperonin family protein	67.11	65.71	73.69	68.84	150.46	187.23	141.56	159.75	2.32	8.52E-05
Asa6G03520	Elongation factor G 2	21.67	20.22	21.79	21.23	42.03	52.31	54.9	49.75	2.34	8.64E-05
Asa5G05475	PREDICTED: growth-regulating factor	0.53	0.06	0.73	0.44	3.35	8.68	4.89	5.64	12.82	8.71E-05
Asa7G04329	50S ribosomal protein L22, chloroplastic	2.13	1.27	1.54	1.65	5.45	6.4	4.76	5.54	3.36	9.00E-05
Asa5G00850	LRRNT_2 domain-containing protein	18.97	17.32	21.92	19.4	42.18	69.09	61.48	57.58	2.97	9.42E-05
Asa2G00273	Geranylgeranyl pyrophosphate synthase	3.87	3.67	3.46	3.67	9.1	11.62	9.14	9.95	2.71	9.49E-05
Asa2G05798	PUM-HD domain-containing protein	11.03	9.91	11.79	10.91	20.97	29.68	23.17	24.61	2.26	9.52E-05
Asa8G02566	DUF632 domain-containing protein/DUF630 domain-containing protein	3.84	3.75	4.39	3.99	8.77	13.9	9.04	10.57	2.65	9.55E-05
Asa6G01273	Chaperone DnaK	45.81	45.57	50.77	47.38	96.96	123.3	101.12	107.13	2.26	1.00E-04
Asa2G01908	DUF632 domain-containing protein	1.39	1.23	1.46	1.36	4.08	7.18	7.21	6.16	4.53	0.000116041
Asa7G00606	50S ribosomal protein L2	54.05	50.34	57.36	53.92	103.83	131.73	136.2	123.92	2.3	0.000116282
Asa7G05940	Peptidase A1 domain-containing protein	13.5	15.64	23.24	17.46	35.46	46.22	39.92	40.53	2.32	0.000117453
Asa1G00253	Putative cytochrome P450	0.76	0.82	0.82	0.8	1.93	3.09	2.91	2.64	3.3	0.000121986
Asa5G01517	Glucose-6-phosphate 1-dehydrogenase	79.02	80.41	84.53	81.32	158.11	200.19	196.83	185.04	2.28	0.000122436
Asa4G06113	Unknown protein	6.94	5.25	8.17	6.79	16.2	21.47	24.02	20.56	3.03	0.000122436
Asa5G02163	Trypsin inhibitor	110.04	112.97	85.33	102.78	483.62	419.41	255.89	386.31	3.76	0.000124149
Asa1G00031	HIG1 domain-containing protein	135.04	178.43	233.87	182.45	384.51	447.66	458.47	430.21	2.36	0.000125234
Asa6G00894	nucleolin	25.62	26.42	26.29	26.11	48.91	70.85	64.52	61.43	2.35	0.000125954
Asa2G03631	Cellulose synthase	13.98	11.85	13.75	13.19	25.16	39.53	28.13	30.94	2.35	0.000126181

Asa6G02976	Putative major facilitator superfamily domain-containing protein	2.44	0.93	2.06	1.81	11.02	29.99	27.17	22.73	12.56	0.000126278
Asa4G00036	Adenosylhomocysteinase	165.78	203.29	227.97	199.01	459.97	460.96	486.37	469.1	2.36	0.00012723
Asa0G02564	Protein kinase, putative	3.82	2.69	3.31	3.27	7.12	8.52	7.25	7.63	2.33	0.000128814
Asa1G03816	DPPIV_N domain-containing protein	80.86	100.25	99.93	93.68	199.27	223.27	256.71	226.42	2.42	0.000129018
Asa5G02289	Cytochrome P450	1.04	1.44	1.05	1.18	3.67	3.82	3.58	3.69	3.14	0.000129366
Asa4G02964	Phosphoglucosamine mutase	6.22	6.3	7.58	6.7	14.19	17.06	19.32	16.86	2.52	0.000132732
Asa1G02878	Unknown protein	21.34	12.62	16.53	16.83	39.14	42.99	40.38	40.84	2.43	0.000133623
Asa4G05585	H/ACA ribonucleoprotein complex subunit like	23.05	17.41	20.75	20.4	54.63	88.01	50.73	64.46	3.16	0.000133682
Asa7G03266	DDT domain-containing protein	8.28	7.58	7.19	7.68	15.31	19.58	18.42	17.77	2.31	0.000140121
Asa2G06497	tRNA (guanine-N(7)-)-methyltransferase non-catalytic subunit	12.56	10.79	10.54	11.3	23.06	29.49	25.53	26.03	2.3	0.00014295
Asa5G03804	ATP dependent RNA helicase	57.56	53.21	55.78	55.52	111.67	133.69	130.94	125.43	2.26	0.000144053
Asa6G05979	Acyl-[acyl-carrier-protein] hydrolase	0.57	0.56	1.2	0.78	2.07	3.46	3	2.84	3.66	0.000147159
Asa8G04999	Beta-glucosidase	1.88	1.54	1.8	1.74	5.06	5.89	3.24	4.73	2.72	0.000147159
Asa7G02757	Polyadenylate-binding protein	5.49	5.59	6.06	5.71	12.73	16.88	11.78	13.8	2.41	0.000147159
Asa5G02158	probable galactinol--sucrose galactosyltransferase 1	7.21	10.81	8.59	8.87	26.99	38.83	44.27	36.7	4.14	0.000151482
Asa0G02494	Lectin	63.31	51	69.52	61.28	136.48	145.56	134.36	138.8	2.27	0.000153999
Asa5G02157	probable galactinol--sucrose galactosyltransferase 1	6.82	10.17	8.45	8.48	25.9	37.23	42.64	35.26	4.16	0.000156538
Asa3G01596	WD_REPEATS_REGION domain-containing protein	3.27	3.39	3.51	3.39	7.68	8.04	9.45	8.39	2.47	0.000158101
Asa5G02379	NAC domain-containing protein	1.49	1.68	1.17	1.45	4.49	4.83	4.77	4.7	3.25	0.000158539
Asa5G04500	multiple organellar RNA editing factor 1, mitochondrial-like	35.75	34.46	34.63	34.95	69.74	84.71	84.56	79.67	2.28	0.000161511
Asa4G06129	DEAD-box ATP-dependent RNA helicase-like protein	4.87	4.56	4.97	4.8	11.71	12.44	9.38	11.18	2.33	0.000163277
Asa3G02617	30S ribosomal protein S8, putative	51.84	42.42	50.24	48.17	94.74	118.55	109.87	107.72	2.24	0.000163291
Asa4G03432	WD_REPEATS_REGION domain-containing protein	13.68	13.06	13.51	13.42	27.89	34.24	28.11	30.08	2.24	0.000164753
Asa3G02134	HABP4_PAI-RBP1 domain-containing protein	66.39	61.48	66.52	64.8	129.76	165.65	132.25	142.55	2.2	0.000167662
Asa4G00967	DUF724 domain-containing protein	0.94	1.03	1.26	1.08	2.64	4.86	3.58	3.69	3.43	0.000169118
Asa7G03245	Lectin	147.7	93.41	142.78	127.96	300.65	332.42	402.74	345.27	2.7	0.000172082
Asa2G06455	3-ketoacyl-CoA synthase	1.48	1.99	2.23	1.9	9.78	15.76	7.16	10.9	5.74	0.000173157
Asa0G05766	Rho GTPase-activating gacO-like protein	2.22	2.51	1.63	2.12	8.04	9.45	4.89	7.46	3.52	0.000174394
Asa3G02462	Pyrophosphate--fructose 6-phosphate 1-phosphotransferase subunit beta	1.1	1.15	1.61	1.29	3.67	4.42	3.96	4.02	3.12	0.000177349
Asa7G02720	Putative B3 domain-containing protein	2.42	2.85	2.63	2.63	6.44	8.2	6.38	7.01	2.66	0.00018103
Asa0G03066	Unknown protein	4.22	5.37	5.57	5.05	14.01	18.62	10.37	14.33	2.84	0.000181741
Asa5G01062	periodic tryptophan protein 2	5.14	4.75	5.74	5.21	10.44	12.87	14.3	12.54	2.41	0.00018533
Asa8G05935	TauD domain-containing protein	4.43	5.01	4.25	4.56	11.36	12.1	12.07	11.84	2.6	0.000192831
Asa8G05316	Putative 60S ribosomal protein L14	125.82	111.66	113.38	116.95	233.62	269.02	293.51	265.38	2.27	0.000198014
Asa5G01063	periodic tryptophan protein 2	2.82	2.94	3.75	3.17	7.02	8.18	7.87	7.69	2.43	0.000204866
Asa2G05714	Heat shock 70 kDa protein	371.98	380.37	482	411.45	786.32	1047.67	848.65	894.21	2.17	0.000205042
Asa4G02866	Putative receptor kinase	0.94	1.31	1.58	1.28	3.1	3.73	3.63	3.49	2.73	0.000206222
Asa7G05468	Nuclear pore protein	18.14	18.68	17.56	18.13	36.88	43.29	49.57	43.25	2.39	0.000209075
Asa1G02605	Unknown protein	2.5	1.96	2.26	2.24	6.34	8.64	10.36	8.45	3.77	0.000212638

Asa8G01288	Pyrophosphate-energized vacuolar membrane proton pump	0.17	0.27	0.21	0.22	1.58	1.08	1.06	1.24	5.72	0.000221849
Asa2G02835	Carboxypeptidase	0.08	0.02	0.04	0.05	0.41	1.31	0.99	0.9	19.36	0.000222232
Asa5G02787	BTB domain-containing protein	11.61	10.45	12.71	11.59	23.79	27.51	30.32	27.21	2.35	0.000222789
Asa0G03065	Unknown protein	2.91	2.79	2.67	2.79	6.5	9.35	8.92	8.26	2.96	0.000223023
Asa2G01244	UDP-glucose 6-dehydrogenase	3.55	4.52	6.2	4.76	10.84	12.69	12.41	11.98	2.52	0.000226261
Asa1G02104	Unknown protein	0.47	0.22	0.29	0.33	2.1	2.82	2.71	2.54	7.79	0.000234932
Asa0G05141	Adenosylhomocysteinase	160.51	198.52	223.61	194.21	434.09	439.8	469.4	447.76	2.31	0.000235379
Asa6G04017	Pyruvate decarboxylase	52.89	60.56	74.96	62.8	232.58	154.39	199.17	195.38	3.11	0.000237283
Asa4G01063	Peptidylprolyl isomerase	5.09	3.92	4.57	4.53	10.22	16.71	10.41	12.45	2.75	0.000239878
Asa7G07017	Proliferating cell nuclear antigen	6.06	5.38	6.97	6.14	16.51	33.2	25.01	24.91	4.06	0.000245817
Asa6G05566	Growth-regulating factor like	4.33	4.4	6.57	5.1	11.2	14.12	9.49	11.6	2.28	0.000246808
Asa4G02553	Putative MYB transcription factor	1.41	1.51	1.49	1.47	5.67	3.98	5	4.88	3.32	0.00024869
Asa3G02914	Geranylgeranyl pyrophosphate synthase	3.3	3.43	1.9	2.88	6.97	10.67	8.93	8.86	3.08	0.000256913
Asa3G02534	nuclear pore complex protein NUP205	3.9	3.57	3.86	3.78	7.57	9.83	7.86	8.42	2.23	0.000257535
Asa8G05064	Chaperone DnaK	19.1	16.89	21.5	19.16	39.85	48.49	36.47	41.6	2.17	0.000258003
Asa1G02253	CBS domain-containing protein CBSX5	28.51	25.01	43.97	32.5	74.56	113.66	74.53	87.58	2.7	0.00026242
Asa2G03216	Calcium ion-binding protein	29.67	25.9	28.88	28.15	53.79	69.22	62.13	61.71	2.19	0.000263211
Asa4G04196	FAD-binding PCMH-type domain-containing protein	0.65	0.35	0.79	0.6	1.5	2.67	2.39	2.19	3.66	0.000263211
Asa6G03521	elongation factor 2	13.09	12.8	15.58	13.82	27.51	38.05	26.76	30.77	2.23	0.000263999
Asa4G06118	Glutathione S-transferase	128.02	96.13	109.98	111.38	249.26	237.27	259.07	248.53	2.23	0.000264829
Asa4G03389	Pyruvate kinase	23.08	22.98	24.36	23.47	50.27	59.41	45.42	51.7	2.2	0.000273407
Asa1G01373	FAD-binding PCMH-type domain-containing protein	26.28	27.51	31.83	28.54	57.03	73.21	57.02	62.42	2.19	0.000282211
Asa7G00744	Zinc finger CCCH domain-containing protein 14	3.67	3.5	3.4	3.52	7.88	10.13	11.65	9.89	2.81	0.000285135
Asa7G02612	40S ribosomal protein SA	60.52	60.72	70.08	63.77	130.8	165.78	115.51	137.36	2.15	0.000288086
Asa7G04318	BHLH domain-containing protein	0.12	0.15	0.16	0.14	1.95	0.94	1.21	1.37	9.53	0.000295124
Asa7G01513	Ubiquitin-conjugating enzyme E2-binding protein	6.52	5.17	5.88	5.86	11.24	15	14.5	13.58	2.32	0.000295155
Asa7G06686	Glutathione S-transferase T1	370.65	310.33	404.13	361.7	1080.49	1739.19	1949.38	1589.69	4.4	0.000295846
Asa6G06669	Translationally-controlled tumor protein homolog	1348.07	1192.42	1296.84	1279.11	2569.26	3160.95	2422.49	2717.57	2.12	0.000296345
Asa2G01442	Mitochondrial glycoprotein-like	0.64	0.45	0.87	0.65	2.51	3.07	2.43	2.67	4.09	0.000300468
Asa7G05860	Polygalacturonase inhibitor	8.7	8.03	13.79	10.17	22.06	34.19	23.91	26.72	2.63	0.000302012
Asa4G04762	nucleolar complex protein 2 homolog	8.04	6.91	8.06	7.67	16.31	19.36	15.64	17.1	2.23	0.000306468
Asa4G00950	DUF724 domain-containing protein	2.88	3.37	3.82	3.36	7.2	12.53	10.09	9.94	2.96	0.000307472
Asa4G05568	Peptidyl-prolyl cis-trans isomerase	24.82	20.61	26.48	23.97	53.57	61.51	45.85	53.64	2.24	0.000308604
Asa5G01565	Lipoxygenase	7.63	8.19	12.94	9.59	22.13	21.59	24.84	22.85	2.38	0.000311385
Asa7G05497	T-complex protein 1 subunit gamma	37.72	38.74	39.63	38.7	79.3	96.06	78.27	84.54	2.18	0.000315028
Asa5G04225	DUF2428 domain-containing protein	0.99	0.91	0.93	0.94	2.07	2.93	1.72	2.24	2.37	0.00031657
Asa5G05760	stress response protein nst1-like	2.19	2.76	2.51	2.49	5.94	6.68	6.27	6.3	2.53	0.000317037
Asa6G01736	DNA mismatch repair protein MutS	0.63	0.59	0.88	0.7	1.58	2.86	2.19	2.21	3.16	0.000321848
Asa6G02517	Polyadenylate-binding protein	103.42	101.42	104.91	103.25	193.47	241.32	246.96	227.25	2.2	0.000323354
Asa2G06714	Chaperonin-60 kDa protein	9.46	8.79	8.09	8.78	19.04	21.72	18.92	19.89	2.27	0.000331159
Asa3G01666	GATA-type domain-containing protein	34.59	40.1	36.05	36.91	106.24	108.56	65.07	93.29	2.53	0.000333732
Asa0G04963	Non-symbiotic hemoglobin, putative	91.58	75.83	71.68	79.7	204.04	230.98	294.55	243.19	3.05	0.000338038
Asa2G06683	GTP-binding nuclear protein	83.29	91.52	93.49	89.43	174.52	229.1	178.57	194.06	2.17	0.000338941
Asa8G01220	endoribonuclease Dicer homolog 3	2.93	2.63	3.15	2.9	6.13	7.15	6.32	6.53	2.25	0.00036195

Asa6G06094	Protein arginine N-methyltransferase	5.08	3.86	4.61	4.52	9.31	11.5	11.76	10.86	2.4	0.000364579
Asa5G03871	Putative origin recognition complex subunit 3	0.63	0.64	0.85	0.71	1.63	2.65	1.77	2.02	2.85	0.000365899
Asa7G05470	Nuclear pore protein	18.61	20.43	17.61	18.88	37.57	44.87	48.26	43.57	2.31	0.000367515
Asa3G04835	Protein CLP1 homolog	0.56	0.42	0.52	0.5	2.28	2	2.42	2.23	4.47	0.000367515
Asa0G02463	Aspartate carbamoyltransferase, chloroplastic	1.76	2.53	2.28	2.19	5.46	9.51	8.85	7.94	3.63	0.000369683
Asa5G03149	HTH OST-type domain-containing protein	2.41	2.21	2.81	2.48	5.89	7.46	4.27	5.87	2.37	0.000371454
Asa2G03438	WD_REPEATS_REGION domain-containing protein	6.15	5.24	7.21	6.2	12.13	15.71	14.53	14.12	2.28	0.000374725
Asa7G00941	Glycosyltransferase	0.51	0.67	0.65	0.61	2.24	2.44	1.79	2.16	3.54	0.000374823
Asa6G03625	X8 domain-containing protein	3.1	3.74	4.26	3.7	16.83	30.35	36.11	27.76	7.5	0.000380014
Asa4G01864	Unknown protein	169.89	148.24	159.25	159.13	371.73	358	344.86	358.2	2.25	0.000382296
Asa0G00994	4-hydroxy-3-methylbut-2-en-1-yl diphosphate synthase	0.33	0.46	0.43	0.41	1.29	2.71	2.32	2.11	5.18	0.000382296
Asa0G00313	Pentatricopeptide repeat-containing protein	2.7	2.35	2.57	2.54	5.81	6.87	5.64	6.11	2.4	0.000396348
Asa6G03048	Oxysterol-binding protein, PH domain-like protein	4.13	4.47	5.85	4.82	9.88	13.47	9.8	11.05	2.29	0.000399756
Asa4G03885	ABC transporter-like protein	0.06	0.01	0.02	0.03	0.27	0.87	0.57	0.57	19	0.00040659
Asa1G03050	Ribosome biogenesis protein BOP1 homolog	18.58	18.11	19.1	18.6	41.17	55.64	62.7	53.17	2.86	0.00041221
Asa2G07511	Putative pre-mRNA-splicing factor ATP-dependent RNA helicase	20.28	21.45	21.6	21.11	40.83	55.99	58.67	51.83	2.46	0.00041221
Asa5G05037	D-aminoacyl-tRNA deacylase	28.47	32.84	39.23	33.51	80.73	77.1	70.17	76	2.27	0.000414814
Asa7G01215	Exostosin domain-containing protein	2.97	3.19	3.79	3.32	9.93	16.89	9.14	11.99	3.61	0.000425346
Asa8G02565	DUF632 domain-containing protein/DUF630 domain-containing protein	3.58	4.7	3.94	4.07	8.06	12.36	9.18	9.87	2.42	0.00043458
Asa7G04808	TPR_REGION domain-containing protein	77.2	75.54	82.89	78.54	143.22	181.22	188.46	170.97	2.18	0.000437384
Asa4G05700	DNA-damage-repair/toleration protein	2.68	4	4.73	3.8	16.08	11.41	17.69	15.06	3.96	0.000451176
Asa5G03730	PI3K/PI4K domain-containing protein	16.37	15.42	17.09	16.29	32.92	40.15	32.71	35.26	2.16	0.00045253
Asa6G04111	Cationic amino acid transporter	8.7	7.03	8.52	8.08	18.6	21.32	26.42	22.11	2.74	0.000454734
Asa5G03879	Tocopherol methyltransferase	18.29	24.66	21.73	21.56	47.87	48.47	57.13	51.16	2.37	0.000456031
Asa6G00037	Kinase	17.55	15.97	20.61	18.04	32.65	44.18	38.43	38.42	2.13	0.000460207
Asa7G07597	Sodium/hydrogen exchanger 7	4.42	6.27	6.88	5.86	16.88	18.58	10.86	15.44	2.64	0.000463914
Asa7G03095	COP1-interacting protein 7-like isoform X2	22.4	19.87	21.88	21.38	43.34	49.11	52.45	48.3	2.26	0.000471484
Asa2G03604	WD_REPEATS_REGION domain-containing protein	1.57	1.39	1.7	1.55	3.99	5.12	2.79	3.97	2.55	0.000479934
Asa1G00799	Homeobox-leucine zipper protein	9	7.52	9.34	8.62	16.44	21.45	17.76	18.55	2.15	0.000482892
Asa7G03692	Reductase	0	0.03	0.08	0.04	1.38	12.86	13.25	9.16	249.91	0.00048442
Asa1G00901	SANT domain-containing protein	1.71	2.12	2.21	2.01	6.23	6.18	5.02	5.81	2.89	0.000485896
Asa8G04311	Putative prolyl 4-hydroxylase 1	26.54	22.96	24.74	24.75	62.01	54.49	50.92	55.81	2.26	0.000494538
Asa6G05495	Rho GTPase-activating gacO-like protein	2.41	2.67	2.27	2.45	8.73	10.35	5.11	8.06	3.29	0.000500379
Asa7G01127	Pectin lyase-like superfamily protein	0.12	0.27	0.82	0.4	3.54	10.74	6.13	6.8	16.87	0.000501481
Asa1G02393	AP2/ERF domain-containing transcription factor	3.45	1.9	5.51	3.62	10.83	9.68	9.51	10.01	2.76	0.000506107
Asa4G03528	UPF0481 protein	0.27	0.13	0.19	0.2	0.78	0.92	1.26	0.99	5.02	0.000506206
Asa3G02335	Mechanosensitive ion channel protein	0.29	0.28	0.24	0.27	1.54	4.03	4.07	3.21	11.9	0.000525565
Asa2G06763	Putative heavy metal-associated domain, HMA	29.28	24.11	36.93	30.11	64.29	67.68	71.24	67.74	2.25	0.000525565
Asa2G00917	F-box domain-containing protein	6.64	4.76	6.21	5.87	12.66	17.5	12.99	14.38	2.45	0.000526047
Asa5G00900	Homeobox domain-containing protein/DDT domain-containing protein	8.12	6.9	7.38	7.47	14.5	16.61	18.63	16.58	2.22	0.000528221
Asa5G03803	ATP dependent RNA helicase	47.08	47.87	53.43	49.46	102.92	116.44	105.28	108.21	2.19	0.000528419



Asa0G03894	Nop domain-containing protein	39.06	38.98	39.04	39.03	71.03	97.53	100.26	89.61	2.3	0.000544974
Asa6G04545	4-coumarate--CoA ligase-like 4	91.75	91.59	105.59	96.31	230.85	189.61	246.47	222.31	2.31	0.000547355
Asa7G00506	65-kDa microtubule-associated protein 1	15.17	15.23	18.95	16.45	36.86	62.64	59.94	53.15	3.23	0.000547557
Asa7G03393	E3 ubiquitin-protein ligase ORTHRUS 2	3.25	2.92	3.62	3.26	7.08	11.28	6.85	8.4	2.58	0.000550948
Asa6G04429	C2H2-type domain-containing protein	3.8	2.8	3.37	3.32	8.92	15.98	9.11	11.34	3.41	0.000554387
Asa0G04784	GD5L esterase/lipase	0.74	1.26	1.7	1.23	4.06	3.42	3.09	3.52	2.86	0.00056497
Asa5G03727	PI3K/PI4K domain-containing protein	16.26	15.35	16.69	16.1	32.14	39.53	31.77	34.48	2.14	0.000567024
Asa4G05084	PREDICTED: polyribonucleotide nucleotidyltransferase	2.2	1.99	2.41	2.2	5.51	7.14	8.69	7.11	3.23	0.000568263
Asa2G03104	Calcium ion-binding protein	25.87	23.03	26.24	25.05	43.19	60.42	55.17	52.93	2.11	0.000572069
Asa7G04807	TPR_REGION domain-containing protein	62.78	60.31	66.15	63.08	111.81	148.79	142.48	134.36	2.13	0.000575809
Asa2G06744	BTB/POZ domain-containing protein	0.13	0.12	0.15	0.13	0.53	0.82	0.88	0.74	5.58	0.000578579
Asa4G02163	Transmembrane protein	0.18	0.98	1.16	0.77	3.44	5.67	2.9	4	5.18	0.000581664
Asa4G00986	Unknown protein	11.83	10.93	14.85	12.54	35.7	58.33	31.11	41.71	3.33	0.000583629
Asa1G03049	Ribosome biogenesis protein BOP1 homolog	20.71	19.24	21.05	20.33	39.5	52.23	41.8	44.51	2.19	0.000584153
Asa6G01461	Putative DNA primase large subunit	5.06	5.16	5.19	5.14	9.02	13.93	12.18	11.71	2.28	0.000604382
Asa3G01975	Putative RNA-binding protein	85.91	84.83	90.56	87.1	145.83	211.13	197.34	184.77	2.12	0.000607151
Asa4G02937	nuclear speckle RNA-binding protein B-like	0.65	0.25	0.56	0.49	2.52	4.72	5.92	4.39	9.01	0.000617751
Asa8G04001	GD5L esterase/lipase	10.29	3.39	6.2	6.63	20.08	20.25	13.91	18.08	2.73	0.00062333
Asa8G05472	ATP-dependent RNA helicase	25.83	21.44	22.32	23.2	43.12	52.77	52.99	49.63	2.14	0.00062623
Asa6G00435	probable histone acetyltransferase type B catalytic subunit	10.71	8.1	9.66	9.49	19.91	24.19	16.31	20.14	2.12	0.00063255
Asa8G03001	Chaperone DnaK	1.82	2.19	1.51	1.84	5.25	6.52	6.57	6.11	3.32	0.000638055
Asa5G03479	Glutamyl-tRNA(Gln) amidotransferase subunit A	1.84	1.51	1.61	1.65	3.73	4.26	4.72	4.24	2.56	0.000643414
Asa3G02955	T-complex protein 1 subunit alpha	40.69	43.47	44.39	42.85	88.3	99.66	89.74	92.57	2.16	0.000649278
Asa0G04940	probable histone acetyltransferase type B catalytic subunit	8.06	6.46	7.59	7.37	15.57	19.78	12.68	16.01	2.17	0.000650549
Asa7G00380	Receptor-like serine/threonine-protein kinase	3.02	2.47	3.18	2.89	5.4	6.97	7.48	6.62	2.29	0.000650549
Asa8G04206	ATP-dependent RNA helicase	2.2	1.85	2.42	2.16	3.86	5.69	4.89	4.81	2.23	0.000661375
Asa4G01436	Fatty acid hydroxylase domain-containing protein	0	0.03	0.04	0.02	1.07	1.35	2.74	1.72	73.71	0.000661405
Asa2G03214	AWPM-19-like protein	0	0.09	0.06	0.05	1.02	0.9	1.7	1.21	24.13	0.000665838
Asa2G05716	70 kDa heat shock protein	651.73	616.66	785.64	684.68	1347.59	1689.62	1176.17	1404.46	2.05	0.000674086
Asa5G01298	HMA domain-containing protein	0.06	0.1	0.22	0.13	4.23	5.49	1.25	3.66	28.87	0.000674086
Asa7G04672	Unknown protein	2.84	2.51	3.2	2.85	7.05	14.18	9.7	10.31	3.62	0.000681182
Asa7G02866	Receptor-like protein kinase	23.45	25.29	32.33	27.02	54.16	62.26	57.91	58.11	2.15	0.000682862
Asa6G05455	Pyrophosphate-energized vacuolar membrane proton pump	40.94	39.15	50.58	43.56	84.38	102.9	86.72	91.33	2.1	0.000688514
Asa8G05969	Kinesin-like protein	2.34	1.96	2.24	2.18	4.52	5.47	4.87	4.95	2.27	0.000700047
Asa2G00184	Pesticidal crystal cry8Ba protein	1.25	1.2	1.28	1.24	2.3	3.36	3.37	3.01	2.42	0.000705414
Asa6G05004	Unknown protein	14.41	10.66	10.44	11.84	26.77	27.49	34.76	29.67	2.51	0.000707941
Asa8G05531	Beta-galactosidase	2.03	1.8	2.07	1.97	4.18	7.67	6.63	6.16	3.13	0.000722446
Asa1G01838	Aa_trans domain-containing protein	0.04	0.02	0	0.02	0.78	5.09	2.78	2.88	144.17	0.000729443
Asa6G06120	GD5L esterase/lipase	0.68	0.09	0.4	0.39	1.26	2.93	2.39	2.19	5.62	0.000731718
Asa8G03574	Protein yippee-like	23.45	22.68	28.6	24.91	53.55	59.85	55.72	56.37	2.26	0.000733469
Asa0G04541	LRRNT_2 domain-containing protein	1.83	2.47	3.13	2.48	7.26	6.69	6.36	6.77	2.73	0.000737637
Asa7G02600	Phospholipase A2 family protein	5.15	6.52	9.56	7.08	27.25	47.6	23.16	32.67	4.62	0.000742925
Asa4G02314	SAP30_Sin3_bdg domain-containing protein	3.53	4.7	5.28	4.5	9.27	16	12.94	12.74	2.83	0.000782089

Asa7G06642	Structural maintenance of chromosomes protein	2.41	2.96	3.35	2.91	6.24	10.39	6.73	7.79	2.68	0.000795707
Asa0G03473	UPF0481 protein	1.2	1	1.11	1.1	2.69	5.09	4.81	4.2	3.8	0.00080966
Asa8G01370	Peptidylprolyl isomerase	2.2	2.02	3.06	2.43	4.85	7.26	5.02	5.71	2.35	0.000810019
Asa5G02459	Rotundifolia-like protein	0.36	0.77	0.37	0.5	2.25	4.18	3.77	3.4	6.8	0.000814421
Asa7G06863	Unknown protein	0.92	0.76	1.31	1	5.4	4.64	5.23	5.09	5.11	0.000820198
Asa6G01272	Chaperone DnaK	67.78	67.22	80.36	71.79	145.19	173.96	132.03	150.39	2.1	0.000820264
Asa5G01546	GATA transcription factor	2.66	2.72	2.45	2.61	7.5	8.5	5.66	7.22	2.77	0.000826932
Asa3G01858	Epimerase domain-containing protein	3.69	3.38	3.94	3.67	9.02	9.4	8.87	9.1	2.48	0.000836276
Asa5G01004	Protein translation factor SUI1 homolog	145.49	157.91	169.33	157.58	309.57	355.17	357.38	340.71	2.16	0.000837249
Asa8G03702	C2 domain-containing protein	0.48	0.14	0.43	0.35	2.19	2.86	1.15	2.07	5.9	0.000851932
Asa0G01801	GTP diphosphokinase	0.54	0.5	0.38	0.47	1.62	1.65	1.75	1.67	3.54	0.000852091
Asa7G06325	60S ribosomal protein L5	43.94	36.9	43.75	41.53	93.77	88.34	85.83	89.31	2.15	0.000887762
Asa5G00377	Putative transcription factor MYB family	16.72	17.88	17.51	17.37	39.31	55.73	62.93	52.66	3.03	0.000891146
Asa4G06315	Timeless protein	0.79	0.76	0.79	0.78	1.61	2.75	1.75	2.04	2.61	0.000893754
Asa4G01261	Putative heavy metal-associated domain, HMA	1.5	1.04	2.3	1.61	6.89	8.56	3.96	6.47	4.01	0.000901595
Asa7G07041	target of early activation tagged (EAT) 3	0.27	0.62	0.93	0.61	2.84	4.5	4.36	3.9	6.43	0.000902095
Asa6G04538	WD_REPEATS_REGION domain-containing protein	9.56	8.12	7.86	8.51	16.39	20.02	18.43	18.28	2.15	0.000903303
Asa6G00328	Putative disease resistance protein	1.12	1.21	1.11	1.15	4.59	8.55	4.06	5.73	5	0.000909881
Asa5G05890	Serine/threonine-protein phosphatase 4 regulatory subunit like	6	5.5	5.8	5.77	11.04	14.1	12.41	12.52	2.17	0.000926191
Asa8G03922	protein kinase family protein	2.18	2.22	2.55	2.32	4.15	6.26	4.49	4.97	2.14	0.000926287
Asa1G01554	Telomere repeat-binding protein 5-like	1.7	2.91	3.13	2.58	11.72	9.88	16.19	12.6	4.88	0.000929139
Asa3G04713	Methionine aminopeptidase 2-1	71.14	70.57	70.8	70.84	129.34	160.42	159.13	149.63	2.11	0.000929139
Asa3G00009	AB hydrolase-1 domain-containing protein	1.35	1.03	1.62	1.33	2.73	4.45	3.01	3.4	2.55	0.000929139
Asa2G02076	Fatty acid hydroxylase domain-containing protein	0.32	0.23	0.37	0.31	1.89	6.37	5.1	4.45	14.52	0.000931669
Asa3G00892	AB hydrolase-1 domain-containing protein	1.32	1.17	1.77	1.42	2.94	4.7	3.21	3.62	2.55	0.000938126
Asa8G03279	Hydrolase_4 domain-containing protein	0.72	0.46	0.64	0.61	1.88	2.09	2.68	2.22	3.65	0.000940665
Asa6G00241	Chaperone clpb	7.77	7.15	7.56	7.49	16.72	15.93	16.86	16.5	2.2	0.000956625
Asa7G05085	Kinetochore spc25	2.01	1.72	2.32	2.02	5.33	6.11	4.84	5.43	2.69	0.000964733
Asa7G01077	Isopimaradiene synthase	0.16	0.14	0.25	0.18	0.88	0.78	0.69	0.78	4.27	0.000969617
Asa3G00155	Eukaryotic peptide chain release factor subunit 1-1	33.35	37.87	35.75	35.66	81.61	84.16	62.63	76.13	2.14	0.000976447
Asa3G02933	protein ECERIFERUM 3-like	1.77	0.45	1.29	1.17	3.73	7.63	4.3	5.22	4.46	0.000983789
Asa3G04896	Receptor-like protein kinase	2.49	2.02	2.47	2.33	4.71	8.77	7.06	6.85	2.94	0.000983789
Asa1G04083	Unknown protein	15.66	12.16	11.46	13.09	31.15	27.97	34.09	31.07	2.37	0.001000231
Asa6G01547	Seed biotin-containing protein SBP65	1.44	1.63	1.38	1.48	4.04	4.17	5.7	4.64	3.13	0.001007478
Asa5G03631	Plant cysteine oxidase 2	58.39	56.85	64.15	59.8	122.05	131.05	129.42	127.51	2.13	0.001008915
Asa5G01772	Oxygen-dependent choline dehydrogenase	1.72	1.97	2.58	2.09	11.66	38.55	33.03	27.75	13.28	0.001012572
Asa8G02259	SAM_MT_RSMB_NOP domain-containing protein	20.17	20.39	20.04	20.2	36.45	47.69	42.62	42.25	2.09	0.001046586
Asa3G00826	exosome complex component RRP45A-like	6.81	6.16	6.55	6.51	12.83	16.89	12.52	14.08	2.16	0.001048242
Asa2G05409	Protein kinase-like protein	12.6	10.5	11.16	11.42	22.12	27.26	22.61	24	2.1	0.001073522
Asa6G06873	SHSP domain-containing protein	73.43	60.38	83.98	72.6	128.82	191.07	129.32	149.74	2.06	0.001078343
Asa6G03911	Elongation factor G 2	9.24	10.13	10.87	10.08	18.22	24.56	22.26	21.68	2.15	0.001081256
Asa5G03630	Plant cysteine oxidase 2	71.64	70.1	77.73	73.16	149.6	158.78	159.89	156.09	2.13	0.001087191
Asa7G03462	Putative transcription factor bHLH family	1.53	1.3	1.21	1.35	3.38	6.2	6.26	5.28	3.92	0.001102593

Asa5G03254	Histone-lysine N-methyltransferase	3.21	3.11	3.21	3.18	5.96	8.1	7.27	7.11	2.24	0.001129143
Asa8G01305	DUF642 domain-containing protein	0	0.06	0.13	0.06	0.66	1.25	1.8	1.24	19.53	0.001168875
Asa8G05022	Mitochondrial glycoprotein family protein, putative	5.94	5.29	5.77	5.67	12.34	14.71	13.49	13.51	2.38	0.001174879
Asa7G04304	MADS-box transcription factor	0.35	0.73	0.51	0.53	1.85	3.42	1.83	2.37	4.47	0.00117685
Asa7G00537	Kinesin-like protein	2.49	1.8	2.45	2.25	4.46	6.54	3.97	4.99	2.22	0.001186454
Asa5G05593	Cytochrome P450 family protein, expressed	7.04	2.65	5.79	5.16	15.25	21.47	11.07	15.93	3.09	0.001191288
Asa8G06137	PPDK_N domain-containing protein	4.45	4.17	4.53	4.38	8.12	10.74	8.81	9.22	2.1	0.001213572
Asa6G07048	SHSP domain-containing protein	79.07	60.33	78.67	72.69	146.86	194.27	115.89	152.34	2.1	0.001224031
Asa4G02122	Dead box ATP-dependent RNA helicase, putative	2.56	2.34	2.46	2.45	4.86	6.15	5.69	5.57	2.27	0.001238931
Asa2G03679	U3 small nucleolar ribonucleoprotein protein MPP10	26.05	25.34	25.08	25.49	46.84	56.93	57.17	53.65	2.1	0.001255908
Asa4G02936	VQ domain-containing protein	2.13	0.71	0.58	1.14	3.16	4.67	4.95	4.26	3.74	0.001277488
Asa1G00229	Putative transcription factor	13.99	13.1	13.59	13.56	27.66	31.25	29.84	29.58	2.18	0.001293309
Asa1G01625	FAS1 domain-containing protein	0.52	0.56	0.82	0.63	1.85	2.05	1.42	1.77	2.8	0.001301104
Asa1G01627	Pollen Ole e 1 allergen and extensin family protein, putative	0.08	0.04	0.17	0.1	1.7	25.9	24.7	17.43	180.34	0.001309586
Asa0G03251	replication protein A 32 kDa subunit A-like	1.57	1.17	2.34	1.69	6.78	14.3	7.12	9.4	5.55	0.00131871
Asa3G03680	Beta-glucosidase	5.64	7.41	7.42	6.82	17.52	34.99	32.22	28.24	4.14	0.001327817
Asa3G02130	Remorin_C domain-containing protein	4.62	4.6	5.12	4.78	8.85	12.94	9.38	10.39	2.17	0.00135076
Asa1G00249	Peptidylprolyl isomerase	7.68	6.65	7.2	7.18	15.08	17.86	11.86	14.93	2.08	0.001351032
Asa8G00805	Putative Aldehyde dehydrogenase	10.97	8.8	10.51	10.09	19.2	23.68	19.71	20.86	2.07	0.001360525
Asa7G05821	Flap endonuclease 1	17.79	13.97	15.51	15.76	27.23	36.26	34.53	32.67	2.07	0.001365666
Asa7G06919	Fructose-bisphosphate aldolase	127.4	132.81	154.74	138.32	287.33	295.23	292.29	291.62	2.11	0.001376331
Asa3G03166	L-ascorbate oxidase	0	0	0	0	0.64	9.36	5.57	5.19	519	0.001376607
Asa0G00595	U6 small nuclear RNA (adenine-(43)-N(6))-methyltransferase	5	3.49	4.24	4.24	9.53	10.19	13.1	10.94	2.58	0.001397027
Asa7G02712	VOC domain-containing protein	43.1	44.05	35.53	40.89	81.55	92.74	90.13	88.14	2.16	0.001406048
Asa7G04276	F-box family protein	0.37	0.24	0.35	0.32	1.49	1.6	1.66	1.58	4.95	0.001406048
Asa1G00699	BP28CT domain-containing protein	5.59	5.45	5.94	5.66	10.73	13.66	10.18	11.52	2.04	0.001431923
Asa6G02190	Thioredoxin domain-containing protein	0.1	0.04	0	0.05	3.79	1	1.97	2.25	48.29	0.001437463
Asa5G05240	Unknown protein	6.66	5.14	4.21	5.34	11.29	14.84	13.84	13.32	2.5	0.001445199
Asa1G03132	Protein IQ-DOMAIN like	4.49	5.6	5.56	5.22	11.15	12.22	14.11	12.49	2.39	0.001456968
Asa4G04605	G domain-containing protein	1.08	1.35	1.56	1.33	3.26	4.06	4.03	3.78	2.84	0.001481291
Asa8G03989	Unknown protein	1.6	0.79	1.09	1.16	3.33	3.81	3.9	3.68	3.17	0.001492137
Asa2G00178	protein JASON	0.15	0.04	0.06	0.08	0.5	1.72	1.59	1.27	15.24	0.001496131
Asa5G05973	ALOG domain-containing protein	0.07	0	0.05	0.04	0.89	17.93	12.25	10.36	258.92	0.001523677
Asa7G03820	C2H2-type domain-containing protein	1.6	1.36	1.09	1.35	4.12	7.75	4.03	5.3	3.93	0.001547844
Asa6G00665	protein kinase family protein	0.19	0.13	0.37	0.23	1.15	1.16	1	1.1	4.8	0.001551651
Asa6G02038	Glucan endo-1,3-beta-glucosidase	0.76	0.41	0.25	0.47	2.64	1.57	2.75	2.32	4.9	0.001560745
Asa4G00339	WD_REPEATS_REGION domain-containing protein	7.52	7.98	8.46	7.99	16.18	19.36	23.05	19.53	2.45	0.001575303
Asa2G01106	Ethylene-responsive transcription factor	3.41	3.82	5.27	4.17	10.86	10.97	10.19	10.67	2.56	0.001583341
Asa6G03633	Transcription elongation factor spt6	7.37	6.77	7.92	7.35	13.84	17.32	13.49	14.88	2.02	0.001587886
Asa5G03868	Putative origin recognition complex subunit 3	0.61	0.44	0.76	0.6	1.36	2.32	1.38	1.69	2.8	0.001606593
Asa0G02765	Unknown protein	10.31	9.71	11.62	10.55	22.48	33.87	23.01	26.45	2.51	0.001614157
Asa8G06242	Polyadenylate-binding protein RBP45	0	0.05	0.12	0.06	0.35	1	0.63	0.66	11.65	0.001624627
Asa5G02951	DNA topoisomerase I	14.87	13.48	13.14	13.83	27.67	30.7	27.59	28.65	2.07	0.001626725

Asa7G02004	Ribonucleoside-diphosphate reductase	18.34	18.72	20.61	19.22	41.13	47.33	29.85	39.44	2.05	0.001658077
Asa6G01269	Chaperone DnaK	38.94	40.73	43.93	41.2	83.2	100.1	71.38	84.89	2.06	0.001679316
Asa2G00397	Unknown protein	0	0	0	0	0	40.09	64.46	34.85	3485	0.001680015
Asa1G02092	FAD_binding_3 domain-containing protein	0.06	0.03	0.11	0.07	0.49	0.55	0.67	0.57	8.55	0.001687238
Asa3G04408	Movement protein binding protein 2C	8.32	8.53	9.84	8.9	19.49	21.89	16.85	19.41	2.18	0.001690697
Asa3G02227	Kinesin	0.86	0.79	0.92	0.86	1.64	2.75	2.63	2.34	2.73	0.001721478
Asa5G03649	Ethylene-responsive transcription factor 2	15.97	13.49	14.43	14.63	25.66	33.36	31.72	30.25	2.07	0.001726443
Asa6G05061	Abhydrolase_2 domain-containing protein	0.66	1.11	0.82	0.86	2.02	3.89	2.93	2.95	3.41	0.001778319
Asa6G02510	cell division control protein 48 homolog C-like	65.53	64.79	64.12	64.81	117.37	133.65	155.05	135.36	2.09	0.001808477
Asa8G05934	Ribosomal L1 domain-containing protein	10.6	9.88	11.38	10.62	21.55	26.97	16.03	21.52	2.03	0.001808802
Asa5G05932	DnaJ	14.03	12.73	14.09	13.62	30.65	35.12	25.6	30.46	2.24	0.001826235
Asa7G00781	Ultraviolet-B receptor UVR8	3.87	4.34	3.68	3.96	9.08	11.33	10.25	10.22	2.58	0.001842654
Asa2G02049	Protein RecA	2.91	1.93	2.98	2.61	5.02	8.37	5.51	6.3	2.42	0.001842746
Asa6G03767	ABC transporter-like protein	3.47	3.02	2.57	3.02	6.23	7.87	9.24	7.78	2.58	0.001865773
Asa4G00855	Haloacid dehalogenase-like hydrolase domain-containing protein 3	8.26	9	8.86	8.71	20.1	24.72	14.29	19.7	2.26	0.001867797
Asa3G00549	B3 domain-containing protein	5.12	3.59	4.16	4.29	8.63	11.11	12.89	10.88	2.54	0.001873931
Asa6G02281	cell division control protein 48 homolog C-like	82.4	82.27	81.61	82.09	148.88	169.83	194.03	170.91	2.08	0.001877008
Asa6G03581	BRCT domain-containing protein	0.74	0.76	0.89	0.8	1.52	2.75	2.33	2.2	2.76	0.001937808
Asa2G03095	protein UPSTREAM OF FLC-like	0.82	0.39	0.71	0.64	1.71	3.4	1.93	2.35	3.67	0.001941792
Asa7G01739	Ribonucloprotein	44.84	46.72	55.22	48.93	91.06	113.42	112.82	105.77	2.16	0.0019587
Asa1G03511	Reductase	0	0	0.08	0.03	0.19	14.23	12.7	9.04	339	0.001962175
Asa6G03850	AAA domain-containing protein	8.19	7.99	8.21	8.13	16.12	18.78	15.46	16.79	2.06	0.001962175
Asa2G04257	ATP-dependent 6-phosphofructokinase	45.97	46.35	47.01	46.44	106.43	96.83	88.6	97.29	2.09	0.001974944
Asa7G04608	Erythronate-4-phosphate dehydrogenase family protein	11.71	16.03	13.65	13.8	31.67	58.16	36.4	42.08	3.05	0.001984821
Asa2G03046	CP-type G domain-containing protein	26.05	24.7	24.9	25.22	45.36	56.57	52.15	51.36	2.04	0.002002844
Asa4G00723	MYB-related transcription factor	4.53	3.18	4.38	4.03	9.36	14.43	7.81	10.53	2.61	0.002008027
Asa8G04901	Receptor-like protein kinase	0.42	0.34	0.54	0.43	1.83	2.72	1.11	1.89	4.35	0.002065334
Asa2G01320	Midasin	1.01	0.61	0.93	0.85	1.98	2.85	2.9	2.58	3.03	0.00207432
Asa2G01057	NAC domain	0.27	0.28	0.42	0.32	1.77	1.61	1.84	1.74	5.38	0.00210866
Asa8G02225	UPF0481 protein	0.19	0.24	0.36	0.26	0.86	2.17	1.86	1.63	6.19	0.002111872
Asa0G05412	4-coumarate--CoA ligase-like 4	60.47	59.04	67.65	62.39	142.06	122.77	164.51	143.11	2.29	0.002134857
Asa5G05906	IST1-like protein	0.13	0.21	0.32	0.22	0.65	1.18	1.26	1.03	4.68	0.002140069
Asa8G03592	ABC transporter-like protein	0.09	0.02	0	0.04	0.24	0.74	0.39	0.46	12.45	0.002143776
Asa2G02918	O-methyltransferase, putative	1.23	0.77	0.8	0.93	4.21	2.43	3.03	3.22	3.45	0.002147414
Asa7G03103	DDB1-and CUL4-associated factor 8	4.54	3.9	3.56	4	7.8	10.68	9.41	9.3	2.32	0.002151162
Asa2G02854	DNA replication complex GINS protein SLD5	1.85	1.25	1.78	1.63	6.77	6.8	11.18	8.25	5.07	0.002193494
Asa6G00043	Cell wall protein	19.88	8.6	21.59	16.69	103.52	54.35	104.38	87.42	5.24	0.002215656
Asa2G00511	Putative nucleoredoxin 2	1.1	1.7	0.85	1.22	4.18	4.24	6.18	4.87	4	0.002215656
Asa5G02542	WD-40 repeat-containing protein MSI4	22.62	21.18	21.57	21.79	38.92	46.95	49.25	45.04	2.07	0.002215656
Asa2G05778	PREDICTED: rop guanine nucleotide exchange factor	0.73	0.6	0.42	0.58	1.39	2.25	2.47	2.04	3.49	0.002238439
Asa7G04071	Protein FAM91A1	2.42	2.52	3.01	2.65	5.3	6.75	4.82	5.62	2.12	0.002250719
Asa2G02674	Usp domain-containing protein	5.61	4.48	4.09	4.73	12.34	10.88	12.1	11.77	2.49	0.002259124
Asa0G05405	Histone H2A	7.33	5.6	8.61	7.18	17.86	38.89	25.06	27.27	3.8	0.002259852
Asa0G04893	Unknown protein	3.76	2.91	2.88	3.18	9.67	7.8	8.04	8.5	2.67	0.002267799
Asa1G02261	Unknown protein	0.48	0.35	0.28	0.37	2.1	3.28	2.32	2.57	6.94	0.002280865
Asa4G02453	BPL/LPL catalytic domain-containing protein	0.9	1.08	1.09	1.02	2.51	3.29	3.22	3.01	2.94	0.002280865

Asa2G03278	Calmodulin-binding transcription activator 5	55.5	53.03	52.07	53.53	95.88	109.67	125.43	110.33	2.06	0.0022962
Asa3G00952	tRNA (guanine(26)-N(2))-dimethyltransferase	27.95	24.12	27.55	26.54	44.53	59.67	62.1	55.43	2.09	0.002364727
Asa2G06181	Peptidylprolyl isomerase	83.53	71.21	78.83	77.86	159.32	156.82	159.9	158.68	2.04	0.002377766
Asa1G03724	Bet_v_1 domain-containing protein	6.08	7.1	7.16	6.78	68.5	31.3	72.14	57.31	8.45	0.002386466
Asa1G02211	protein TIME FOR COFFEE-like isoform X3	0.28	0.11	0.42	0.27	1.26	3.07	3.42	2.58	9.57	0.002387094
Asa3G02249	Peptide chain release factor 1	6.43	4.62	5.93	5.66	14.12	13.98	13.88	13.99	2.47	0.002387094
Asa5G02399	70-kDa heat shock protein	111.07	101.27	128.5	113.61	284.93	288.44	173.59	248.99	2.19	0.002395574
Asa5G05595	Cytochrome P450 family protein, expressed	0.35	0.19	0.29	0.28	1.36	1.16	0.92	1.15	4.14	0.00240643
Asa7G01592	Rep_fac-A_C domain-containing protein	18.06	16.81	20.64	18.5	43.54	35.96	37.34	38.95	2.1	0.002441125
Asa6G04602	Trypsin inhibitor	0	0	0	0	0	13.88	17.3	10.39	1039.33	0.002441819
Asa3G00462	Tubulin alpha chain	101.88	97.49	125.14	108.17	181.89	298.1	247.55	242.51	2.24	0.002448143
Asa3G01407	Non-specific lipid-transfer protein	2.92	4.35	2.97	3.41	8.52	8.58	11.19	9.43	2.76	0.002498613
Asa7G04461	Unknown protein	9.99	7.13	8.26	8.46	19.94	20.58	13.49	18	2.13	0.002504122
Asa6G03479	glutamyl-tRNA (Gln) amidotransferase subunit A (DUF620)	1.64	2.07	2.19	1.97	5	7.69	9.01	7.23	3.68	0.002532776
Asa1G00306	G protein gamma domain-containing protein	1.15	1.08	1.93	1.39	3.22	6.2	3.98	4.47	3.22	0.002533271
Asa3G03157	L-ascorbate oxidase	0	0.08	0.09	0.06	1.61	18.89	9.45	9.98	176.18	0.002541974
Asa0G05517	PREDICTED: abscisic acid 8'-hydroxylase	16.09	16.14	21.52	17.92	67.06	87.15	37.81	64.01	3.57	0.00254616
Asa2G06855	Acyl-[acyl-carrier-protein] desaturase	0	0.02	0	0.01	0.08	6.37	4.87	3.77	566	0.002557399
Asa2G02910	O-methyltransferase	47.72	49.88	54.34	50.65	102.36	110.28	98.37	103.67	2.05	0.002597954
Asa3G00161	Protein recA	2.72	2.25	3.12	2.7	6.22	7.36	4.62	6.07	2.25	0.00259934
Asa7G00782	ultraviolet-B receptor UVR8-like	2.81	2.52	3.13	2.82	4.81	8.09	7.05	6.65	2.36	0.002608875
Asa0G03072	Sucrose phosphate synthase	0.05	0.07	0.08	0.07	0.31	0.32	0.5	0.38	5.65	0.002608875
Asa3G02152	RNA cytidine acetyltransferase	28.71	26.36	27.23	27.43	50.22	58.89	56.25	55.12	2.01	0.002624673
Asa4G00370	Lectin-like protein	17.46	7.84	8.21	11.17	23.68	33.36	24.18	27.07	2.42	0.002644074
Asa3G01903	Myb_DNA-bind_3 domain-containing protein	2.69	2.36	2.47	2.51	6.08	5.73	7.11	6.31	2.52	0.002673013
Asa6G02282	ATP-dependent zinc metalloprotease FtsH	81.11	85.77	81	82.63	148.96	172.13	191.55	170.88	2.07	0.002674733
Asa3G01479	Ethylene insensitive 3	0.95	1.07	0.75	0.92	2.08	2.7	3.23	2.67	2.89	0.002676996
Asa8G03217	Glycerol-3-phosphate acyltransferase 1	0.13	0.04	0.08	0.08	0.59	0.39	0.81	0.6	7.16	0.002746741
Asa7G02038	protein UPSTREAM OF FLC	0.33	0.46	0.46	0.42	1.71	4.92	3.01	3.21	7.71	0.002747713
Asa7G02174	Late embryogenesis abundant (LEA) hydroxyproline-rich glycoprotein family	4.83	4.61	5.47	4.97	9.31	13.31	10.09	10.9	2.19	0.002748553
Asa5G02632	Factor of DNA methylation 1	8.83	9.38	8.82	9.01	15.16	21.84	21.82	19.61	2.18	0.002754381
Asa6G00060	Glycosyltransferase	1.72	1.45	1.19	1.45	2.9	4.18	3.55	3.54	2.44	0.002754381
Asa0G05107	rRNA 2'-O-methyltransferase fibrillarin	7.16	6.34	7.24	6.91	15.31	22.48	12.12	16.64	2.41	0.002757533
Asa7G05211	dnaJ homolog subfamily C member 2	16.01	12.21	13.46	13.89	30.57	29.62	28.43	29.54	2.13	0.002760777
Asa6G02280	ATP-dependent zinc metalloprotease FtsH	55.84	57.9	54.68	56.14	103.78	119.62	122.16	115.19	2.05	0.002770613
Asa7G06128	WPP domain-containing protein	0.98	1.03	1.36	1.12	3.98	11.17	7.13	7.43	6.61	0.002780552
Asa4G04827	DNA double-strand break repair rad50 ATPase	7.65	9.41	9.68	8.91	23.12	24.56	17.16	21.61	2.42	0.002780552
Asa8G02594	Kinesin	1.23	1.14	1.18	1.18	2.52	3.94	4.36	3.61	3.05	0.002783392
Asa8G03278	Brix domain-containing protein	7.04	7.61	7.15	7.27	12.62	18.95	14.43	15.33	2.11	0.002797277
Asa3G01178	Nsp1_C domain-containing protein	22.23	20.07	23.65	21.98	39.14	46.34	50.52	45.33	2.06	0.002803031
Asa1G00085	ATP-dependent DNA helicase	3.23	2.97	3.11	3.1	5.47	6.93	7.75	6.72	2.16	0.002812682
Asa2G05548	Importin N-terminal domain-containing protein	3.66	2.79	2.31	2.92	5.65	10.41	8.91	8.32	2.85	0.002849595
Asa6G05051	Unknown protein	0.17	0.19	0.25	0.2	15.69	15.72	49.41	26.94	132.49	0.00285628
Asa7G03821	C2H2-type domain-containing protein	1.07	2.1	2.62	1.93	6.38	12.34	6.42	8.38	4.34	0.002872846
Asa0G01197	Glutamyl-tRNA(Gln) amidotransferase subunit A, putative	4.02	4.56	4.71	4.43	8.08	11.72	9.94	9.91	2.24	0.002894749

Asa7G03096	serine/arginine repetitive matrix protein 2-like isoform X2	12.53	12.82	13.25	12.87	25.97	30.34	20.85	25.72	2	0.002900813
Asa5G01500	PREDICTED: WUSCHEL-related homeobox	0	0	0.11	0.04	0.71	3.23	1.89	1.94	53	0.002914286
Asa0G02308	Hydroxyproline-rich glycoprotein family protein	0.65	0.38	0.64	0.56	1.63	2.49	1.57	1.9	3.41	0.002922726
Asa6G06923	B box-type domain-containing protein	0.97	0.84	0.83	0.88	2.49	3.28	3.06	2.94	3.34	0.002925409
Asa4G03066	Protein disulfide isomerase-like protein 2-3	8.91	6.77	6.54	7.41	14.44	19.15	13.74	15.78	2.13	0.0029715
Asa2G02806	Cytochrome P450	2.43	2.49	2.81	2.58	5.69	6.57	5.13	5.8	2.25	0.002977761
Asa4G04839	Molybdenum cofactor sulfurase	4.14	3.87	3.83	3.95	6.8	9.1	8.79	8.23	2.09	0.002981418
Asa7G01530	AP2/ERF domain-containing transcription factor	3.38	2.12	2.31	2.6	5.91	7.23	5.66	6.27	2.41	0.002993612
Asa7G06798	Dihydroxy-acid dehydratase	41.35	40.77	44.49	42.2	74.67	86.23	97.34	86.08	2.04	0.003045953
Asa4G03526	DUF4110 domain-containing protein	20.58	16.16	17.7	18.15	36.5	36.93	42.81	38.75	2.14	0.003058373
Asa4G03605	60S ribosomal protein L3-like protein	6.86	6.21	8.13	7.07	18.82	17.29	11.13	15.75	2.23	0.003060448
Asa6G05986	DUF4149 domain-containing protein	0	0	0	0	0.22	0.13	0.37	0.24	24	0.003061783
Asa1G01904	Histone H3	2.48	2.86	3.72	3.02	6.51	13.35	9.95	9.94	3.29	0.003064515
Asa7G03940	Midasin	9.9	7.46	9.66	9.01	19.16	18.11	23.78	20.35	2.26	0.00306498
Asa6G04964	UPF0481 protein	3.21	3.57	4.01	3.6	7.27	8.68	7.37	7.77	2.16	0.003072499
Asa2G07246	Transposon TX1 uncharacterized 149 kDa protein	31.9	32.49	34.87	33.09	87.09	67.42	70.1	74.87	2.26	0.003095915
Asa0G01424	Protein kinase domain-containing protein	0.12	0.24	0	0.12	1.28	1.05	1.24	1.19	9.92	0.003099522
Asa7G02805	BAG family molecular chaperone regulator	2.63	2.91	3.45	3	5.43	8.76	6.31	6.83	2.28	0.003099522
Asa5G02091	Adenylate kinase subfamily	12.87	14.17	14.52	13.85	27.75	32.53	31.78	30.69	2.22	0.00311454
Asa2G00619	Pesticidal crystal cry8Ba protein	4.25	3.57	4.45	4.09	7.23	11.09	11.19	9.84	2.41	0.003137102
Asa2G03791	Non-specific lipid-transfer protein	4.12	3.78	4.39	4.1	10.71	8.93	13.02	10.89	2.66	0.003161914
Asa7G07358	LRRNT_2 domain-containing protein	1.21	1.72	1.94	1.62	5.57	11.25	5.53	7.45	4.59	0.003198527
Asa3G03857	Kinase, putative	4.42	5.16	5.45	5.01	8.88	12.58	9.85	10.44	2.08	0.003206436
Asa1G03033	Glutamyl-tRNA(Gln) amidotransferase subunit A	5.75	5.73	5.93	5.8	10.38	12.92	13.47	12.26	2.11	0.003255477
Asa8G05156	Unknown protein	6.22	5.1	5.51	5.61	13.05	14.04	18.94	15.34	2.73	0.003265544
Asa0G04202	Rep_fac-A_C domain-containing protein	26.35	25.49	30.28	27.37	61.78	52.35	58.78	57.64	2.11	0.003295934
Asa0G01805	Putative transcription factor bHLH family	0.14	0.16	0.39	0.23	0.75	1.8	1.12	1.22	5.32	0.003323951
Asa6G04290	Serine carboxypeptidase, putative	11.11	6.13	8.52	8.59	19.67	29.74	34.84	28.08	3.27	0.003361298
Asa8G02662	DNA helicase	2.8	2.74	3.24	2.93	8.43	22.59	18.06	16.36	5.59	0.003388497
Asa4G01230	PREDICTED: vesicle-associated membrane	21.38	21.33	21.09	21.27	39.83	45.55	47.59	44.32	2.08	0.003426359
Asa3G01570	Major facilitator superfamily domain-containing protein 12	9.83	8.99	8.96	9.26	19.57	24.92	23.82	22.77	2.46	0.003426359
Asa8G01883	Sucrose phosphate synthase	0.68	0.65	0.64	0.66	2.28	2.43	1.28	2	3.04	0.003430337
Asa8G04028	RNase III domain-containing protein	13.57	16.29	20.58	16.81	31.67	42.23	30.99	34.96	2.08	0.003433731
Asa0G00588	Unknown protein	0.5	0.93	1.24	0.89	3.24	5.3	3.43	3.99	4.48	0.00347077
Asa0G04496	Inosine-5'-monophosphate dehydrogenase	5.7	5.11	5.8	5.54	9.94	14.89	12.99	12.61	2.28	0.003472346
Asa3G03202	WPP domain-containing protein	2	1.7	2.34	2.01	6.43	18.86	13.83	13.04	6.48	0.00348367
Asa0G01963	Cytochrome p450	0.34	0.37	0.31	0.34	4.07	2.3	5.91	4.09	12.04	0.003501291
Asa8G05327	Putative 60S ribosomal protein L14	269.45	250.77	256.32	258.85	506.06	528.61	524.08	519.58	2.01	0.003503728
Asa4G06506	Unknown protein	12.22	12.38	10.18	11.59	25.63	39.13	21.38	28.71	2.48	0.00352015
Asa2G03065	Glycosyltransferase	1.75	1.53	1.1	1.46	2.69	4.24	3.62	3.52	2.41	0.003529532
Asa2G04751	Cyclin family protein	0.02	0.06	0.15	0.08	0.75	8.38	8.16	5.76	75.17	0.003535421
Asa5G05396	Putative argonaute family protein	0.16	0.15	0.2	0.17	0.49	0.9	0.64	0.68	3.98	0.003555561
Asa7G01126	Pectin lyase-like superfamily protein	0.56	0.32	0.93	0.6	3.34	15.4	10.88	9.87	16.36	0.003599841

Asa5G01817	DUF4005 domain-containing protein	9.78	9.02	10.37	9.72	15.82	25.62	22.99	21.48	2.21	0.003600824
Asa8G00919	Vesicle transport protein	5.73	4.26	4.91	4.97	11.04	12.03	13.08	12.05	2.43	0.003611482
Asa0G04870	Lipoxygenase	2.5	3.26	4.59	3.45	8.61	17.59	17.03	14.41	4.18	0.003666675
Asa0G02592	protein RETICULATA-RELATED 3, chloroplastic-like	7.93	5.83	6.2	6.65	13.3	14.52	14.66	14.16	2.13	0.003698214
Asa7G01923	MYB-related transcription factor	5.12	3.21	4.45	4.26	9.66	15.45	8.28	11.13	2.61	0.003738792
Asa1G01957	Unknown protein	21.09	18.01	21.87	20.32	42.64	42.61	41.56	42.27	2.08	0.003757099
Asa8G04644	Protein NBR1-like protein	10.82	8.74	12.91	10.82	20.5	27.14	23.71	23.78	2.2	0.003761449
Asa2G05549	Importin N-terminal domain-containing protein	1.68	1.94	2.19	1.94	3.59	5.73	4.35	4.56	2.35	0.003791811
Asa2G04580	Phosphatidylinositol 4-phosphate 5-kinase 1	0.24	0.3	0.16	0.23	0.64	1.46	1.04	1.05	4.49	0.003799927
Asa8G01139	Zinc finger CCCH domain-containing protein	32.57	33.2	34.55	33.44	75.8	66.93	91.56	78.1	2.34	0.003825297
Asa3G04442	FHA domain-containing protein	1.24	1.05	1.44	1.24	2.51	3.93	4.27	3.57	2.87	0.003840049
Asa2G02621	protein kinase family protein	48.86	50.14	48.98	49.33	106.28	98.16	100.15	101.53	2.06	0.003840177
Asa3G00933	U-box domain-containing protein	0	0	0	0	0.09	0.84	0.52	0.48	48.33	0.003840177
Asa5G04062	Kinase	12.59	11.77	13.75	12.7	22.91	27.6	25.57	25.36	2	0.003840662
Asa4G05916	Serine/arginine-rich splicing factor like	25.98	21.06	23.96	23.67	45.41	46.75	52.31	48.16	2.03	0.003845262
Asa8G04188	Putative disease resistance protein	3.58	2.5	2.75	2.94	5.83	8.78	9.67	8.09	2.75	0.003854076
Asa4G03232	UDP-glycosyltransferase	0.78	0.75	0.77	0.77	2.22	4.85	2.6	3.22	4.2	0.003854076
Asa4G03886	Lipase_3 domain-containing protein	0.37	0.15	0.22	0.25	0.79	2.09	1.25	1.38	5.58	0.003854076
Asa2G00442	CYSTM domain-containing protein	17.69	21.07	24.04	20.93	42.59	48.74	59.5	50.28	2.4	0.003854076
Asa8G04948	Glucomannan 4-beta-mannosyltransferase	8.74	8.8	11.79	9.78	23.58	23.79	20.85	22.74	2.33	0.003859785
Asa5G04471	Small nuclear ribonucleoprotein Sm D3	1.55	1.23	1.19	1.32	2.88	6.08	5.46	4.81	3.63	0.003874773
Asa2G01153	Protein UPSTREAM OF FLC-like protein	2.42	1.57	2.86	2.28	6.55	17.76	15.36	13.22	5.79	0.003922005
Asa0G05416	60S ribosomal protein L3-like protein	2.51	3.05	3.44	3	8.43	7.41	5.19	7.01	2.34	0.003922005
Asa7G07269	p-loop NTPase domain-containing protein LPA1	2.2	2.17	2.9	2.42	4.32	5.64	5.98	5.31	2.19	0.003973182
Asa3G01527	Cinnamoyl-CoA reductase 1	4.58	3.76	4.68	4.34	10.08	10.89	10.09	10.35	2.39	0.003978182
Asa4G04430	Oligopeptide transporter	11.68	11.81	11.17	11.55	26.57	28.09	27.52	27.39	2.37	0.00399027
Asa2G05187	Glutathione S-transferase	1.58	0.47	1.21	1.09	3.92	7.96	3.59	5.16	4.75	0.004012178
Asa7G07460	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit STT3B	29.86	28.77	28.48	29.04	59.6	64.88	52.34	58.94	2.03	0.004025281
Asa8G03310	40S ribosomal protein S4	241.36	217.42	255.5	238.09	422.68	491.51	575.73	496.64	2.09	0.004028652
Asa3G01966	Putative translational activator Gcn1, TOG domain-containing protein	6.94	7.32	7.36	7.21	12.36	16.35	15.16	14.62	2.03	0.004082841
Asa2G00964	ADP-ribosylation factor GTPase-activating protein AGD3-like	1.18	1.15	1.09	1.14	2.36	2.84	2.78	2.66	2.33	0.004105841
Asa2G02622	protein kinase family protein	48.08	49.77	50.89	49.58	105	97.37	103.41	101.93	2.06	0.004109478
Asa0G01853	Mitochondrial glycoprotein family protein, putative	3.53	3.32	3.38	3.41	6.71	8.61	9.67	8.33	2.44	0.004111386
Asa0G03645	ATP-dependent RNA helicase family protein	5.01	5.38	5.21	5.2	11.14	12.56	8.81	10.84	2.08	0.004120103
Asa4G02781	RecA family protein	2.61	2.92	2.55	2.69	5.83	7.38	4.93	6.05	2.25	0.004155106
Asa0G05923	Polygalacturonase inhibitor	0	0	0.03	0.01	0.15	3.66	3.14	2.32	231.67	0.004193797
Asa7G03336	Protein DCL, chloroplastic	29.58	27.33	29.69	28.87	50.14	61.86	63.85	58.62	2.03	0.0041991
Asa1G00506	HORMA domain-containing protein	3.73	3.22	3.73	3.56	6.75	7.53	9.27	7.85	2.21	0.004227463
Asa4G04728	protein PAT1 homolog 1-like	9.13	7.45	8.29	8.29	12.89	21.14	17.02	17.02	2.05	0.004241449
Asa8G04825	Wound-responsive family protein	0.26	0.15	0	0.14	2.92	1.13	3.29	2.45	17.9	0.004260267
Asa4G01373	Pollen Ole e 1 allergen/extensin	0.1	0.11	0	0.07	0.47	1.76	1.03	1.09	15.52	0.004272446
Asa6G05930	DNA repair protein RAD4	3.21	3.28	3.1	3.2	6.22	7.29	6.57	6.69	2.09	0.004295234
Asa0G03321	Histone H3	11.43	10.87	17.81	13.37	29.92	66.14	48.97	48.34	3.62	0.004305447

Asa1G03908	Phosphosulfolactate synthase	15.31	15.4	18.03	16.25	40.45	32.41	30.23	34.36	2.12	0.004331439
Asa0G02210	Unknown protein	6.66	7.04	7.99	7.23	17.07	16.28	15.63	16.33	2.26	0.004382758
Asa2G00825	Cytochrome P450	1.73	1.56	1.54	1.61	2.8	4.85	4.45	4.03	2.51	0.00438644
Asa6G00909	TPR_REGION domain-containing protein	12.31	11.45	11.89	11.88	21.64	24.69	24.95	23.76	2	0.004434984
Asa0G04668	plant cysteine oxidase 2-like	9.62	9.63	7.34	8.86	16.32	23.02	24.73	21.36	2.41	0.00443747
Asa6G02928	Rab-GAP TBC domain-containing protein	5.08	5.23	6.56	5.62	10.52	13.62	9.99	11.38	2.02	0.004455237
Asa6G07112	Unknown protein	2.01	2.12	1.97	2.03	7.62	6.5	5.76	6.63	3.26	0.004498189
Asa5G02813	Peroxidase	4.84	5.66	6.78	5.76	16.68	14.23	21.57	17.49	3.04	0.004538635
Asa4G06053	IENR2 domain-containing protein	5.61	4.46	4.96	5.01	9	11.06	11.81	10.62	2.12	0.004540542
Asa1G03337	60 kDa chaperonin	4.96	5.47	5.96	5.46	11.48	12.77	9.74	11.33	2.07	0.004551026
Asa3G00672	Hydroxyproline-rich glycoprotein family protein	0.27	0.29	0.36	0.31	1.9	3.68	1.31	2.3	7.49	0.004562548
Asa6G06337	CCHC-type domain-containing protein	1.23	0.81	1.44	1.16	2.83	4.45	2.6	3.29	2.84	0.004568545
Asa7G01239	Exostosin domain-containing protein	2.19	2.21	3.43	2.61	6.34	13.36	8.04	9.25	3.54	0.004580498
Asa5G03610	Tubulin beta chain	1.05	0.89	1.19	1.04	1.96	3.91	2.88	2.92	2.8	0.004586395
Asa6G02815	PREDICTED: COP1-interacting	2.67	2.53	2.63	2.61	5.41	9.95	10.03	8.46	3.24	0.004589162
Asa4G01215	Peroxidase	0	0.28	0.19	0.16	1.05	0.96	1.12	1.04	6.66	0.004613538
Asa2G02475	Serine--tRNA ligase	21.92	18.34	21.88	20.71	33.55	46.74	47.39	42.56	2.05	0.004636441
Asa8G04947	Phycocyanin domain-containing protein	0	0.04	0.21	0.08	0.35	20.69	20.29	13.78	165.32	0.004657129
Asa0G03659	Receptor-like serine/threonine-protein kinase	8.9	10.95	9.38	9.74	23.17	18.91	22.08	21.39	2.2	0.004673233
Asa8G05285	DNA helicase	1.63	1.75	1.71	1.7	5.46	13.71	7.58	8.92	5.26	0.004673233
Asa4G05606	Putative H/ACA ribonucleoprotein complex subunit 3-like protein-like	4.8	5.8	5.24	5.28	10.25	13.92	13.5	12.56	2.38	0.004689541
Asa2G06281	DNA_pol3_gamma3 domain-containing protein	0.78	0.69	0.91	0.79	1.56	2.23	2.54	2.11	2.66	0.004743085
Asa0G00175	Nuclear pore complex protein Nup85	14.93	14.16	15.88	14.99	26.73	29.54	34.96	30.41	2.03	0.00474947
Asa7G06279	ALOG domain-containing protein	0.96	0.85	0.62	0.81	4.39	21.73	18.69	14.94	18.44	0.004753815
Asa4G05441	BHLH transcription factor	7.05	7.65	6.79	7.16	15.44	21.51	25.75	20.9	2.92	0.004765934
Asa2G07528	Prolyl endopeptidase-like	1.26	0.57	0.44	0.76	1.62	2.99	2.42	2.34	3.1	0.004803288
Asa6G03157	F-box domain containing protein	20.03	19.96	21.88	20.62	41.55	39.44	47.56	42.85	2.08	0.00481419
Asa3G00904	DUF632 domain-containing protein/DUF630 domain-containing protein	8.68	9.77	9.2	9.22	15.82	23.08	23.69	20.86	2.26	0.004845388
Asa6G02220	Kinase family protein	8.24	7.89	7.39	7.84	14.17	16.49	18.22	16.29	2.08	0.004862859
Asa1G04264	Nuclear transcription factor Y subunit A	11.86	9.68	11.62	11.05	24	24.98	33.5	27.49	2.49	0.004877766
Asa7G04963	Protein kinase family protein	14.62	11.54	9.92	12.03	26.09	25.81	22.29	24.73	2.06	0.004908342
Asa7G02071	Kinase, putative	1.47	1.78	2.2	1.82	3.66	5.95	6.19	5.27	2.9	0.004919988
Asa0G03472	Poly [ADP-ribose] polymerase	4.02	4.26	4.61	4.3	8.63	10.23	7.29	8.72	2.03	0.004946907
Asa0G05043	Dynein light chain	1.61	2.91	1.39	1.97	8.02	9.08	6.79	7.96	4.04	0.004947859
Asa4G05947	RNA cytidine acetyltransferase	6.62	6.3	7.45	6.79	11.87	16.16	13.4	13.81	2.03	0.004956417
Asa6G00823	Polygalacturonase inhibitor	8.45	10.17	5.76	8.13	22.83	27.65	37.9	29.46	3.63	0.005052516
Asa7G01172	probable serine/threonine-protein kinase dyrk2	0.16	0.35	0.4	0.3	1.05	1.79	1.02	1.29	4.24	0.005137451
Asa8G05897	DNA helicase	2.53	2.56	3.28	2.79	9.87	26.88	14.63	17.13	6.14	0.005177129
Asa4G00256	Unknown protein	60.93	59.68	56.87	59.16	108.87	119.42	133.31	120.53	2.04	0.005232056
Asa1G00942	HTH-type transcriptional regulator protein ptxE	1.04	0.6	0.8	0.81	2.98	2.8	2.1	2.63	3.23	0.005237635
Asa1G00949	HTH-type transcriptional regulator protein ptxE	8.24	6.53	5.53	6.77	20.68	47.98	24.96	31.21	4.61	0.005246487
Asa7G02005	Ribonucleoside-diphosphate reductase	12.16	13.35	13.28	12.93	25.05	35.27	20.28	26.87	2.08	0.00525513
Asa6G03588	DUF4228 domain protein	0.14	0.29	0.22	0.22	0.99	1.59	2	1.53	7.05	0.005316021
Asa2G02272	Unknown protein	7.87	8.44	7.48	7.93	16.82	18.27	20.94	18.68	2.36	0.005332169
Asa2G06055	HTH-type transcriptional regulator	6.27	4.36	4.01	4.88	10.23	13.71	8.97	10.97	2.25	0.005336296



Asa2G02986	Probable 6-phosphogluconolactonase	43.66	48.71	47.89	46.75	89.57	103.07	125.7	106.11	2.27	0.005359001
Asa4G02647	MADS-box transcription factor	0.41	0.61	0.95	0.66	3.15	10.15	5.46	6.25	9.52	0.005393796
Asa7G00904	Brix domain	10.56	10.22	10.99	10.59	21.86	23.92	18.91	21.56	2.04	0.005393796
Asa6G03993	ethylene-responsive transcription factor	7.95	6.17	7.71	7.28	13.59	15.75	19.16	16.17	2.22	0.005439498
Asa8G04949	Pentatricopeptide repeat-containing protein	2.17	2.35	2.45	2.32	5.49	6.04	7.59	6.37	2.74	0.005458968
Asa0G02744	Glycosyltransferase	0.08	0.15	0.28	0.17	0.59	1.35	0.71	0.88	5.2	0.00547038
Asa2G04120	Unknown protein	8.28	13.02	13.75	11.68	27.11	31.04	21.1	26.42	2.26	0.005496306
Asa7G04769	TGF-beta-activated kinase 1 and MAP3K7-binding protein like	0.1	0	0.3	0.13	1.1	1.71	1.31	1.37	10.3	0.005513186
Asa3G03200	RIX1 domain-containing protein	10.09	10.93	10.77	10.6	19.56	21.83	23.05	21.48	2.03	0.005520975
Asa3G04223	Hydroxyproline-rich glycoprotein family protein	10.41	9.94	10.48	10.28	16.1	24.18	23.34	21.21	2.06	0.005566699
Asa2G07059	Cyclin	1.74	0.88	1.44	1.35	4.48	11.29	5.75	7.17	5.3	0.005676953
Asa7G00783	Histone H2B	17.89	17.29	24.24	19.81	46.36	97.94	57.72	67.34	3.4	0.005704016
Asa4G01272	zinc finger protein WIP2-like	0.85	0.29	0.51	0.55	1.16	2.06	1.82	1.68	3.05	0.005754883
Asa4G05761	Protein kinase family protein	0.96	0.74	0.76	0.82	1.41	2.34	2.1	1.95	2.38	0.005807822
Asa1G04196	Glucan endo-1,3-beta-glucosidase	9.79	8.27	9.64	9.23	15.23	27.5	22.62	21.78	2.36	0.005850434
Asa6G02531	Calponin-homology (CH) domain-containing protein	0.83	0.68	0.64	0.72	1.33	2.11	2.23	1.89	2.64	0.005865051
Asa6G06457	Ribosomal protein	7.2	6.64	7.59	7.14	14.3	17.91	15.68	15.96	2.23	0.005885279
Asa5G02780	Protein kinase domain-containing protein	3.95	4.46	5.54	4.65	8.29	14.73	12.97	12	2.58	0.005919661
Asa8G05736	Unknown protein	3.67	3.38	2.65	3.23	8.2	8.49	5.85	7.51	2.32	0.005953996
Asa4G04292	Putative class I heat shock protein	0.6	0.64	0.57	0.6	2.59	2.15	3.85	2.86	4.75	0.006038012
Asa6G03231	Cytochrome P450	5.28	4.21	4.5	4.66	7.63	11.62	9.58	9.61	2.06	0.0060519
Asa6G00492	Glucan endo-1,3-beta-glucosidase	7.04	6.92	10.42	8.13	16.93	29.24	30.7	25.62	3.15	0.006114678
Asa5G02884	C2H2-type domain-containing protein	0.62	0.26	0.32	0.4	1.53	1.61	1.19	1.44	3.61	0.006115532
Asa8G05744	Ubiquitin-conjugating enzyme E2 variant	1.5	0.76	1.08	1.11	3.5	3.25	5.19	3.98	3.57	0.006177071
Asa8G00368	Subtilisin-like protease	2.08	0.9	2.47	1.82	3.5	5.47	3.95	4.31	2.37	0.006217066
Asa2G03364	T-complex protein 1 subunit beta	42.39	40.06	42.87	41.77	70.96	83.73	96.99	83.89	2.01	0.006234344
Asa7G03566	DUF632 domain-containing protein	0.14	0.18	0.15	0.16	0.69	2.89	2.37	1.98	12.66	0.006273693
Asa1G01065	Deoxyuridine 5'-triphosphate nucleotidohydrolase	7.15	3.99	4.35	5.16	10.71	13.22	12.54	12.16	2.35	0.006376476
Asa2G02915	O-methyltransferase	0.33	0.25	0.39	0.32	2.15	14.16	15.2	10.5	32.48	0.006379602
Asa5G01862	RNA-binding protein 1-like	0.09	0.23	0.28	0.2	0.6	1.23	0.72	0.85	4.25	0.006386996
Asa2G05871	Putative maternal effect embryo arrest 59-like	6.87	6.17	7.93	6.99	13.61	15.75	18.5	15.95	2.28	0.006411641
Asa0G03107	DUF4005 domain-containing protein	9.18	8.62	9.8	9.2	14.63	24.02	21.85	20.17	2.19	0.006419285
Asa6G05631	Glyco_18 domain-containing protein	0.14	0.16	0.38	0.23	0.65	1.2	0.8	0.88	3.9	0.006426078
Asa8G05501	Unknown protein	30.41	27.46	31.37	29.75	49.24	82.35	54.33	61.97	2.08	0.006463822
Asa7G01037	S-type anion channel like	0.1	0.08	0.11	0.1	0.43	0.78	0.35	0.52	5.38	0.006518077
Asa4G04710	protein RETICULATA-RELATED 3, chloroplastic-like	4.63	3.48	4.01	4.04	8.7	9.31	8.03	8.68	2.15	0.006522116
Asa8G02339	Putative heavy metal-associated domain, HMA	0.17	0.14	0.32	0.21	1.24	6.14	3.99	3.79	18.05	0.006527066
Asa1G00936	HTH-type transcriptional regulator protein ptxE	6.31	5.56	8.93	6.93	14.33	31.53	22.8	22.89	3.3	0.006557685
Asa1G00635	Zinc ion binding protein	0.21	0.47	0.87	0.52	3.06	2.07	3.46	2.86	5.54	0.006580673
Asa7G04383	Hydrophobic protein like	37.01	26.81	35.46	33.09	119.61	129.72	212.9	154.08	4.66	0.006621642
Asa8G04985	BHLH domain-containing protein	3.91	3.7	3.83	3.81	7.29	15.18	10.45	10.97	2.88	0.006652023
Asa2G00516	Unknown protein	0.68	0.24	0.78	0.57	2.19	3.65	5.23	3.69	6.51	0.006658667
Asa8G02502	Cinnamate-4-hydroxylase	0.44	0.57	0.79	0.6	7.35	3.38	3.51	4.75	7.91	0.006658667
Asa6G01673	Heat stress transcription factor B-4	0.2	0.2	0.15	0.18	1.34	4.96	2.29	2.86	15.62	0.00666123

Asa6G02532	Calponin-homology (CH) domain-containing protein	1.12	1.02	1.14	1.09	1.83	2.59	2.78	2.4	2.2	0.006730738
Asa7G01235	U-box domain-containing protein	6.05	5.95	7.3	6.43	12.64	14.62	14.04	13.77	2.14	0.006736833
Asa7G00372	DUF632 domain-containing protein	1.27	1.49	1.5	1.42	3.08	4.08	2.45	3.2	2.26	0.006759322
Asa1G04117	Nuclear pore complex protein GP210	5.58	4.7	5.81	5.36	9.67	12.93	14.83	12.48	2.33	0.006804006
Asa2G07527	Prolyl endopeptidase-like protein	1.65	0.99	0.61	1.08	2.76	3.78	2.67	3.07	2.83	0.006826762
Asa1G01839	Aa_trans domain-containing protein	0	0.19	0.09	0.09	1.38	9.97	5.36	5.57	59.68	0.006836383
Asa6G01889	Cytochrome P450	0.21	0.1	0.04	0.12	0.58	3.02	2.74	2.11	18.11	0.006848492
Asa6G00580	DNA polymerase I	3.53	3.56	3.6	3.56	7.41	8.35	5.65	7.14	2	0.006864955
Asa5G01443	DUF659 domain-containing protein	0.23	0.16	0.11	0.17	0.76	3.3	2.87	2.31	13.86	0.006891846
Asa0G01244	Unknown protein	0.27	0.16	0.56	0.33	1.58	1.72	2.94	2.08	6.3	0.00690272
Asa7G04928	NAC domain-containing protein	0.7	0.25	0.87	0.61	3.35	4.37	1.46	3.06	5.04	0.006904215
Asa7G00349	ubiquitin fusion degradation protein 1 homolog	1.08	1.63	1.55	1.42	3.01	4.77	4.93	4.24	2.98	0.006952762
Asa0G01005	Histone-lysine N-methyltransferase	0.85	0.49	0.73	0.69	2.18	1.97	3.2	2.45	3.55	0.006965635
Asa0G01782	Glycosyltransferase	2.26	1.55	1.31	1.71	3.07	4.97	4.87	4.3	2.52	0.007006471
Asa4G03459	t-SNARE coiled-coil homology domain-containing protein	0.04	0.02	0.07	0.04	0.32	6.26	6.91	4.5	103.77	0.007021273
Asa6G01470	DNA polymerase epsilon catalytic subunit A	34.6	36.81	45.39	38.93	297.92	210.61	485.35	331.29	8.51	0.007103723
Asa2G04042	Unknown protein	62.52	48.01	51.1	53.88	104	114.46	144.5	120.99	2.25	0.007113225
Asa2G03186	Chaperone DnaK	18.76	19.01	20.43	19.4	36.58	37.74	47.65	40.66	2.1	0.007188272
Asa0G02908	DNA (cytosine-5)-methyltransferase	1.82	2.27	2.16	2.08	3.88	5.01	3.67	4.19	2.01	0.007264258
Asa6G04888	60S ribosomal protein L17	12.12	12.26	11	11.79	21.81	24.33	28.75	24.96	2.12	0.007275253
Asa6G00809	2-alkenal reductase (NADP(+)-dependent)-like	3.27	2.29	3.31	2.96	5.82	10.16	5.85	7.28	2.46	0.007275608
Asa6G04940	FKS1_dom1 domain-containing protein	0.31	0.32	0.3	0.31	0.64	0.91	0.66	0.74	2.38	0.00727672
Asa7G03034	Cyclin	4.4	3.97	6.69	5.02	9.33	13.33	10.22	10.96	2.18	0.00727716
Asa2G03096	protein UPSTREAM OF FLC	0.75	0.11	0.14	0.33	1.04	3.39	2.69	2.37	7.12	0.007379295
Asa4G00286	BRI1-associated receptor kinase	0	0	0.05	0.02	0.17	1.29	1.43	0.96	57.8	0.007489347
Asa1G01586	CobW C-terminal domain-containing protein	14.32	13.75	12.56	13.54	24.33	26.51	32.26	27.7	2.05	0.007502814
Asa0G04693	Exocyst subunit Exo70 family protein	0.32	0.98	1.11	0.8	2.5	3.76	2.9	3.05	3.8	0.007569745
Asa5G02468	Zinc finger CCCH domain-containing protein 53	4.14	4.59	5.68	4.8	10.36	19.88	11.44	13.89	2.89	0.007610643
Asa7G02793	6-phosphofructo-2-kinase/fructose-2, 6-bisphosphatase	0.93	0.98	1.32	1.08	2.17	3.8	3.98	3.32	3.08	0.007627222
Asa4G04877	Condensin-2 complex subunit G2	1.33	1.22	1.26	1.27	2.47	2.91	2.7	2.69	2.12	0.007690572
Asa4G06310	Amino acid permease	6.12	6.8	5.88	6.27	11.88	14.43	12.47	12.93	2.06	0.007698418
Asa3G04415	spindle and kinetochore-associated protein 1 homolog	0.54	1.2	1.49	1.08	2.47	4.87	3.31	3.55	3.3	0.007698631
Asa6G05572	Aspartic/glutamic acid-rich protein	0	0.06	0.16	0.07	0.64	5.27	4.69	3.53	48.18	0.007745786
Asa7G01158	Sodium/hydrogen exchanger 7	3.13	5.13	5.16	4.47	13.67	15.17	7.76	12.2	2.73	0.007771956
Asa8G05500	Putative heavy metal-associated domain, HMA	28.08	19.61	27.8	25.16	41.12	72.3	52	55.14	2.19	0.00777882
Asa2G07142	zinc_ribbon_12 domain-containing protein	1.68	1.97	1.92	1.86	3.78	8.5	6.23	6.17	3.32	0.00779119
Asa4G02995	F-box protein family	0.92	0.91	1.69	1.17	3.42	3.37	2.75	3.18	2.71	0.007844792
Asa5G02332	Unknown protein	4.38	3.4	4.25	4.01	8.88	20.93	13.21	14.34	3.58	0.007846342
Asa7G05832	Polygalacturonase	0.9	0.6	0.2	0.57	1.76	3.65	3.1	2.84	5.01	0.007852787
Asa8G01281	F-box domain-containing protein	6.01	5.8	5.99	5.93	12.45	12.64	12.21	12.43	2.1	0.007861361
Asa7G01657	Holliday junction resolvase	0.51	0.56	0.86	0.64	1.53	2.27	1.32	1.71	2.65	0.00788164
Asa2G05238	Unknown protein	9.17	10.84	8.57	9.53	24.11	19.8	27.43	23.78	2.5	0.007882209
Asa7G05539	Histone H3	15.91	12.9	17.59	15.47	25.43	44.55	30.89	33.62	2.17	0.008050415

Asa7G01317	Ribonucleoside-diphosphate reductase small chain	4.47	4.43	5.23	4.71	12.16	13.99	7.11	11.09	2.35	0.00807171
Asa6G06458	Ribosomal protein	8.01	6.69	8	7.57	14.08	18.58	16.11	16.26	2.15	0.008074233
Asa0G00527	Cell division protein ftsZ, putative	8.22	6.33	7.88	7.48	15.4	15.4	14.09	14.96	2	0.008085733
Asa1G03687	Serine/arginine rich splicing factor, putative	11.36	10.02	9.84	10.41	19.55	20.26	25.58	21.8	2.09	0.008196061
Asa6G06010	Polygalacturonase inhibitor	1.32	1.1	1.73	1.38	3.77	3.08	4.21	3.69	2.67	0.00820847
Asa8G05992	Putative membrane-associated kinase regulator 2	0.83	0.56	0.55	0.65	1.92	4.64	5.14	3.9	6.03	0.008240428
Asa1G04813	Unknown protein	1.22	2.22	1.15	1.53	4.2	5.96	4.51	4.89	3.2	0.008244649
Asa2G07205	Homeobox protein knotted-1, putative	0	0.11	0.15	0.09	0.59	1.34	0.52	0.82	9.42	0.008295887
Asa7G03309	AB hydrolase-1 domain-containing protein	0.05	0.15	0.12	0.11	0.9	0.87	0.94	0.9	8.47	0.008310618
Asa2G03215	Unknown protein	16.25	13.16	12.69	14.03	32.33	25.7	35.64	31.22	2.22	0.008343665
Asa6G01464	ZF-HD dimerization-type domain-containing protein	0.36	0.29	0.52	0.39	2.24	3.44	1.08	2.25	5.78	0.008343665
Asa0G04572	Glutathione S-transferase	6.33	6.7	9.34	7.46	17.38	42.92	38.19	32.83	4.4	0.008343665
Asa2G02832	AAI domain-containing protein	0	0	0	0	0.31	2.78	1.67	1.59	158.67	0.008349509
Asa7G01454	Kinase, putative	1.51	1.65	2.18	1.78	3.46	6.34	6.27	5.36	3.01	0.00839988
Asa5G01393	GDSL esterase/lipase	0.04	0.13	0.25	0.14	0.81	5.76	4.41	3.66	26.14	0.008445476
Asa3G01819	Unknown protein	5.85	6.75	5.23	5.94	16.78	14.22	15.06	15.35	2.58	0.008469519
Asa7G03939	Midasin	4.41	3.03	4.74	4.06	10	9.68	9.26	9.65	2.38	0.008561072
Asa7G07200	MFS domain-containing protein	0.24	0.22	0.54	0.33	1.06	3.17	3.01	2.41	7.24	0.008577882
Asa3G03608	AAA domain-containing protein	0.27	0.19	0.23	0.23	0.92	2.51	3.04	2.16	9.38	0.008577882
Asa6G05511	Lipase	0.49	0.64	0.67	0.6	1.95	1.47	2.41	1.94	3.24	0.008577882
Asa1G02789	Replication protein A 32 kDa subunit A	12.61	13.74	15.72	14.02	23.21	30.73	30	27.98	2	0.008577882
Asa2G01603	ATP-dependent DNA helicase	0.92	0.97	1.37	1.09	1.91	3.57	2.71	2.73	2.51	0.008578218
Asa7G05876	Ribosomal protein L19	116.26	109.51	105.16	110.31	194.98	217.28	263.5	225.25	2.04	0.008610995
Asa4G03709	Histone-lysine N-methyltransferase, H3 lysine-9 specific	0.46	0.31	0.49	0.42	1.19	1.96	2.58	1.91	4.55	0.008651932
Asa5G05999	Uracil-DNA glycosylase	3.45	3.29	3.94	3.56	7.13	7.48	9.45	8.02	2.25	0.008709422
Asa1G03532	Sorghum bicolor protein targeted either to mitochondria or chloroplast proteins T50848	2.14	1.97	1.39	1.83	11.22	6.35	5.78	7.78	4.25	0.008770319
Asa7G00231	Receptor-like serine/threonine-protein kinase	2.56	2.21	2.46	2.41	4.46	5.57	4.48	4.84	2.01	0.008796995
Asa2G06653	centromere protein C-like	0.9	1.02	1.08	1	2.13	4.76	3.02	3.3	3.3	0.008797995
Asa1G02572	DNA polymerase	1.56	1.27	1.89	1.57	3.06	6.35	4.11	4.51	2.86	0.00880786
Asa7G03465	Protein kinase	2.81	2.68	2.87	2.79	5.02	6.75	5.64	5.8	2.08	0.008816201
Asa8G02509	Cinnamate 4-hydroxylase	0.23	0.93	1.32	0.83	8.42	4.18	4.21	5.6	6.78	0.008816201
Asa2G02257	hippocampus abundant transcript-like protein 1	0	0.03	0	0.01	0.43	0.27	0.24	0.31	31.33	0.008891879
Asa8G01277	F-box domain-containing protein	7.6	7.3	7.28	7.39	15.02	14.69	16.39	15.37	2.08	0.00895126
Asa4G04340	Pyrroline-5-carboxylate reductase	5.62	6.78	7.3	6.57	13.78	15.11	12.76	13.88	2.11	0.009003925
Asa5G03681	VOC domain-containing protein	9.88	7.81	13.93	10.54	19.96	42.08	33	31.68	3.01	0.009105879
Asa5G02803	Peroxidase	4.7	5.65	6.77	5.71	24.31	13.32	20.2	19.28	3.38	0.009195526
Asa5G01656	C2H2-type domain-containing protein	3.76	1.17	2	2.31	9.92	34.98	17.24	20.71	8.97	0.009214074
Asa2G03123	putative G3BP-like protein	20.61	16.55	19.02	18.73	34.49	37.94	47.5	39.98	2.13	0.009267603
Asa1G04570	ATP-dependent RNA helicase	1.55	1.59	1.86	1.67	3.4	4.29	3.21	3.63	2.18	0.00933218
Asa7G04063	Flowering locus K domain-containing protein	1.29	0.93	1.76	1.33	2.96	4	2.18	3.05	2.3	0.009345665
Asa2G07058	Cyclin D3	1.45	1.11	2.69	1.75	5.55	14.77	7.84	9.39	5.36	0.009403862
Asa7G00493	Carboxyl methyltransferase	0.9	0.65	0.92	0.82	1.71	3.18	1.74	2.21	2.68	0.00948169
Asa5G02700	FMN-binding split barrel	6.46	5.31	6.89	6.22	11.12	13.83	12.78	12.58	2.02	0.009539277

Asa0G05839	NUC173 domain-containing protein	9.73	10.15	10.83	10.24	17.91	20.04	23.49	20.48	2	0.009572849
Asa6G00330	NB-ARC domain disease resistance protein, putative	1.41	1.2	0.96	1.19	5.16	8.44	3	5.53	4.65	0.009572983
Asa2G06209	Kelch repeat-containing protein	0.58	0.65	0.82	0.68	1.9	1.84	2.32	2.02	2.96	0.009652949
Asa7G03141	Hexosyltransferase	0.95	0.94	0.69	0.86	1.63	3.35	2.93	2.64	3.07	0.009654503
Asa6G03312	ras GTPase-activating protein-binding protein 2-like	6.36	6.5	6.49	6.45	13.39	24.69	26.56	21.55	3.34	0.009707854
Asa5G04479	RNA polymerase II transcriptional coactivator	0.13	0.44	0.59	0.39	1.43	4.13	4.15	3.24	8.37	0.009711074
Asa7G06333	Kinesin-like protein	0.54	0.67	0.65	0.62	1.1	2.19	1.65	1.65	2.66	0.009738751
Asa0G02600	Receptor-like serine/threonine-protein kinase	8.69	12.11	7.77	9.52	22.89	17.97	20.68	20.51	2.15	0.00981882
Asa3G02581	Dihydroflavonol 4-reductase	0.88	0.32	0.93	0.71	3.3	3.19	2.39	2.96	4.17	0.00989691
Asa2G05794	Transmembrane protein	0.07	0	0.06	0.04	0.18	6.94	5.11	4.08	94.08	0.009973984
Asa1G02738	Metal transporter	0	0.01	0	0	0.12	0.33	0.18	0.21	63	0.009980265
Asa4G00985	Putative transcription factor bHLH family	15.21	12.55	24.21	17.32	42.42	73.44	37.24	51.03	2.95	0.010103492
Asa6G02688	Auxin-responsive protein	8.84	10.42	12.4	10.55	18.74	31.51	19.92	23.39	2.22	0.010209965
Asa5G05337	MYB transcription factor	0.33	0.3	0.18	0.27	0.88	2.87	1.77	1.84	6.81	0.010218722
Asa1G00941	HTH-type transcriptional regulator protein ptxE	1.63	1.24	1.71	1.53	4.58	14.95	9.28	9.6	6.29	0.010229605
Asa7G06956	Receptor-like protein kinase	0	0	0	0	0.05	0.85	0.39	0.43	43	0.01024148
Asa2G00294	Histone H3	4.67	4.34	4.75	4.59	9.93	25.87	19.45	18.42	4.02	0.010257319
Asa6G06767	AP2-like ethylene-responsive transcription factor ANT	0.03	0	0	0.01	0.03	3.68	1.97	1.89	189.33	0.01031242
Asa5G01929	Glycosyltransferase	0.27	0.12	0.23	0.21	1.22	3.22	4.73	3.06	14.79	0.010345884
Asa7G01535	Mechanosensitive ion channel protein	0.04	0	0.04	0.03	0.18	0.74	0.34	0.42	15.75	0.010346982
Asa6G02632	Subtilisin-like protease	1.52	1.48	1.75	1.58	3.13	3.65	2.9	3.23	2.04	0.010349499
Asa1G01520	putative axial regulator YABBY 2	0.59	0.64	0.75	0.66	2.84	10.01	5.25	6.03	9.14	0.010378422
Asa7G02371	FMN hydroxy acid dehydrogenase domain-containing protein	24.29	25.08	24.19	24.52	59.97	55.34	81.87	65.73	2.68	0.010385462
Asa5G02413	Wound-responsive family protein	15.54	23.75	11.8	17.03	38.41	53.02	62	51.14	3	0.010406309
Asa7G01872	Casein kinase II subunit beta	8.67	8.5	8.63	8.6	19.05	21.26	14.72	18.34	2.13	0.010445219
Asa5G05018	Unknown protein	1.47	1.51	1.61	1.53	4.1	4.23	3.84	4.06	2.65	0.010459155
Asa2G06801	Homeobox-leucine zipper protein	0.64	0.41	1.23	0.76	1.53	2.22	2	1.92	2.52	0.010530188
Asa2G04497	FMN hydroxy acid dehydrogenase domain-containing protein	17.77	14.92	23.35	18.68	38.89	43.05	56.17	46.04	2.46	0.010536954
Asa1G04151	RanBP2-type zinc finger protein	4.52	4.25	4.09	4.29	8.79	10.27	13.45	10.84	2.53	0.010544547
Asa4G01025	pre-mRNA-splicing factor ISY1 homolog	3.54	3.08	3.2	3.27	5.85	9.03	5.49	6.79	2.07	0.010587862
Asa5G05386	Glutamyl-tRNA(Gln) amidotransferase subunit A	0.03	0.07	0.02	0.04	0.86	0.71	1.98	1.18	29.58	0.010598287
Asa6G06260	protein SUPPRESSOR OF GENE SILENCING 3 homolog	3.92	4.7	5.13	4.58	10.22	10.16	9.58	9.99	2.18	0.010609325
Asa7G00653	RING-type domain-containing protein	5.27	6.17	5.92	5.79	10.53	13.95	16.2	13.56	2.34	0.010632771
Asa8G00457	Glutamate--tRNA ligase	2.19	1.68	1.74	1.87	3.58	4.03	4.14	3.92	2.09	0.010713197
Asa4G03330	elongation factor 1-delta-like	90.03	73.48	75.3	79.6	174.35	235.87	305.98	238.73	3	0.010763028
Asa1G00490	Protein arginine N-methyltransferase	19.52	18.1	20.27	19.3	32.66	38.55	45.57	38.93	2.02	0.011005797
Asa8G04852	Non-specific serine/threonine protein kinase	16.58	16.71	21.13	18.14	28.71	46.02	43.18	39.3	2.17	0.011037404
Asa5G04160	Unknown protein	32.16	28.36	35.48	32	73.49	108.15	52.74	78.13	2.44	0.011051212
Asa5G03884	Unknown protein	1.44	1.02	0.89	1.12	3.71	3.13	2.79	3.21	2.87	0.011077383
Asa7G00882	F-box domain-containing protein	0.78	0.74	0.59	0.7	1.52	3.24	2.17	2.31	3.28	0.011121849
Asa7G05449	ThiF domain-containing protein	1.98	2.87	3.12	2.66	4.58	7.43	6.62	6.21	2.34	0.01114343
Asa0G05866	BURP domain-containing protein	0.91	1.89	1.34	1.38	3.43	4.47	5.67	4.52	3.28	0.011156646

Asa2G02645	electron protein%2C putative (Protein of unknown function%2C DUF547)	2.02	2.3	2.41	2.24	5.08	5.68	3.21	4.66	2.08	0.011170732
Asa6G05384	ABC transporter B family member 2	2.55	2.3	2.62	2.49	4.8	6.7	8.07	6.52	2.62	0.011202138
Asa2G04103	Receptor-like serine/threonine-protein kinase	0.19	0.22	0.11	0.17	0.57	0.6	0.73	0.63	3.65	0.011248079
Asa3G04033	DNA helicase	3.05	2.89	3.63	3.19	9.55	25.02	27.89	20.82	6.53	0.011256858
Asa3G03558	DUF4005 domain-containing protein	0.24	0.25	0.18	0.22	0.79	1.33	1.87	1.33	5.96	0.011284697
Asa3G02228	Kinesin motor domain-containing protein	2.8	2.05	2.53	2.46	5.34	5.57	4.9	5.27	2.14	0.01131279
Asa3G02050	Uridine kinase	1.97	1.82	2.46	2.08	4.26	5.57	4.68	4.84	2.32	0.011428531
Asa8G04490	protein CPR-5	0.62	0.48	1.13	0.74	1.88	2.16	1.38	1.81	2.43	0.011461683
Asa6G02018	Glucan endo-1,3-beta-glucosidase	0.53	0.38	0.3	0.4	3.16	2.06	5.08	3.43	8.51	0.011472528
Asa8G02328	Phospho-2-dehydro-3-deoxyheptonate aldolase	21.15	24.12	35.52	26.93	66	69.1	97.36	77.49	2.88	0.011515429
Asa5G04201	Unknown protein	28.22	18.37	18.84	21.81	44.09	47.39	44.02	45.17	2.07	0.011517308
Asa8G02423	Putative zinc finger protein	7.29	6.39	6.51	6.73	11.44	15.67	17.73	14.95	2.22	0.011574573
Asa7G03950	WD_REPEATS_REGION domain-containing protein	2.15	1.38	1.89	1.81	4.28	4.37	3.22	3.96	2.19	0.011632428
Asa2G02886	Kinase family protein	0.31	0.09	0.27	0.22	0.79	0.79	0.76	0.78	3.49	0.011662131
Asa2G01454	70 kDa heat shock protein	255.83	224.16	284.63	254.87	496.06	1059.25	1010.93	855.41	3.36	0.011698955
Asa8G06138	alpha-glucan water dikinase, chloroplastic	3.34	2.87	2.56	2.92	6.37	8.87	5.13	6.79	2.32	0.011708366
Asa7G04044	TOG domain-containing protein	0.34	0.45	0.57	0.45	1	1.83	2.02	1.62	3.57	0.011731031
Asa1G01320	Cation-transporting ATPase	30.87	25.17	26.88	27.64	50.59	61.38	75.63	62.53	2.26	0.011793766
Asa3G02784	Microtubule-associated protein	3.48	2.83	3.53	3.28	9.6	19.96	8.94	12.83	3.91	0.011881722
Asa3G01591	Peroxidase	0.19	0.11	0.14	0.15	0.69	4.25	3.36	2.77	18.86	0.011891265
Asa7G01243	DUF4005 domain-containing protein	2.08	2.27	3.16	2.5	4.57	6.36	5.07	5.33	2.13	0.011931909
Asa8G03921	rRNA adenine N(6)-methyltransferase	5.05	4.05	4.84	4.65	10.1	11.23	15.5	12.28	2.64	0.01196924
Asa8G01374	Diacylglycerol O-acyltransferase 3	26.14	18.66	14.15	19.65	52.28	40.97	60.68	51.31	2.61	0.011975015
Asa6G05391	probable transcription factor KAN2	1.64	0.45	1.38	1.16	3.16	12.14	9.51	8.27	7.15	0.012097367
Asa7G03968	Coiled-coil protein	1.01	0.69	1.37	1.02	4.29	2.42	2.94	3.22	3.14	0.012118567
Asa4G00495	Omega-hydroxypalmitate O-feruloyl transferase	0.69	0.56	0.56	0.6	1.87	1.88	1.95	1.9	3.15	0.012195304
Asa7G01431	Heat shock transcription factor	0.89	0.72	0.89	0.83	2.55	3.4	3.01	2.99	3.58	0.012217018
Asa8G05484	Protein DETOXIFICATION	10.77	11.11	11.86	11.25	21.48	24.5	30.08	25.35	2.25	0.012236599
Asa5G03408	FLZ-type domain-containing protein	12.77	15.44	15.37	14.53	29.51	35.73	25.74	30.33	2.09	0.01231849
Asa5G01452	Serine carboxypeptidase family protein, expressed	1	0.43	0.6	0.68	1.49	2.09	2.61	2.06	3.05	0.012322342
Asa8G02343	Putative heavy metal-associated domain, HMA	13.3	10.57	13.93	12.6	26.87	71.88	50.7	49.82	3.95	0.01234305
Asa3G04851	Unknown protein	32.2	27.95	36.88	32.34	73.82	63.09	61.75	66.22	2.05	0.01234305
Asa3G02916	PREDICTED: lysine-specific demethylase JMJ25	1.21	1.38	1.59	1.39	3.53	3.37	3.37	3.42	2.46	0.012524586
Asa0G04737	MADS box transcription factor	0.21	0.44	0.21	0.29	2.3	11.33	5.2	6.28	21.9	0.012535918
Asa4G02983	UDP-glycosyltransferase	0.71	0.76	0.9	0.79	1.55	2.28	2.18	2	2.54	0.01254348
Asa5G00990	Receptor-like protein kinase	1.07	1.54	1.4	1.34	2.68	4.91	2.9	3.5	2.62	0.012577663
Asa6G04146	Seipin	0	0.08	0	0.03	0.36	0.44	0.52	0.44	16.5	0.012647823
Asa6G01356	AT-hook motif nuclear-localized protein	0.22	0	0	0.07	0.41	2.7	1.83	1.65	22.45	0.01283732
Asa1G02640	Putative O-fucosyltransferase family protein-like	5.05	4.25	4.39	4.56	8.27	9.38	9.83	9.16	2.01	0.012873311
Asa4G02795	Rice-salt sensitive 1-like protein	4.35	4.57	4.84	4.59	7.94	9.93	11.7	9.86	2.15	0.012873311
Asa2G02716	Protein kinase domain-containing protein	0.07	0.08	0.47	0.21	0.68	1.94	1.24	1.29	6.23	0.012891812
Asa7G06671	RecA family protein	0.43	0.59	0.69	0.57	1.11	2.09	1.63	1.61	2.82	0.012981611

Asa4G05892	Regulator of chromosome condensation (RCC1) family protein	4.67	3.74	3.97	4.13	7.26	8.76	8.94	8.32	2.02	0.013000935
Asa8G01587	Reticulon-like protein	0	0.02	0	0.01	0.18	1.7	0.83	0.9	135.5	0.013045985
Asa6G00822	Polygalacturonase inhibitor	14.09	18.93	10.71	14.58	36.85	46.43	63	48.76	3.35	0.013115094
Asa5G04999	Putative methyltransferase C9orf114	3.83	2.98	3.67	3.49	6.21	9.04	10.35	8.53	2.44	0.013200078
Asa4G04878	Condensin-2 complex subunit G2	1.49	1.23	1.27	1.33	2.5	2.84	2.82	2.72	2.05	0.013217689
Asa3G02987	Receptor-like serine/threonine-protein kinase	12.19	14.53	11.46	12.73	32	23.19	23.26	26.15	2.05	0.0132224
Asa6G00407	Redox-regulatory protein FAM213A	10.48	9.43	8.93	9.61	20.97	17.09	20.49	19.52	2.03	0.013306584
Asa1G04159	Putative protodermal factor 1	1.47	0.16	0.6	0.74	1.31	93.89	135.51	76.9	103.46	0.013306965
Asa4G01267	Protein POLYCHOME-like	0.06	0	0	0.02	0.16	0.92	0.92	0.67	33.33	0.013572817
Asa3G00825	Unknown protein	11.68	10.95	8.77	10.47	25.02	25.35	24.2	24.86	2.37	0.013572817
Asa0G05363	Squalene monooxygenase 2	11.21	11.69	10.39	11.1	22.26	21.55	25.49	23.1	2.08	0.01364168
Asa8G03065	Ribonucleoprotein	17.84	17.45	19.46	18.25	41	57.85	28.33	42.39	2.32	0.013648976
Asa6G00329	Unknown protein	2.99	1.6	2.04	2.21	9.33	14.4	4.82	9.52	4.31	0.013660647
Asa5G03859	Origin recognition complex subunit 3	0.76	0.65	0.88	0.76	1.5	2.3	1.96	1.92	2.52	0.013730717
Asa8G00277	Receptor protein kinase	1.09	0.81	1.1	1	2.36	3.72	1.74	2.61	2.61	0.01376738
Asa7G04275	F-box domain-containing protein	1.56	0.83	1.1	1.16	3.49	3.56	2.37	3.14	2.7	0.01376771
Asa2G05917	DNA topoisomerase 2	0.07	0.17	0.11	0.12	26.29	7.9	5.31	13.17	112.86	0.013873046
Asa8G04573	Acyl-CoA N-acyltransferase with RING/FYVE/PHD-type zinc finger protein, putative isoform 1	0.64	0.66	0.65	0.65	1.57	4.7	3.19	3.15	4.85	0.013884461
Asa7G03384	Pentatricopeptide repeat-containing protein	0.51	0.45	0.7	0.55	1.01	1.6	1.62	1.41	2.55	0.013886548
Asa7G00327	Putative glutathione S-transferase	0.98	0.84	1.74	1.19	3.77	16.01	11.09	10.29	8.67	0.013917381
Asa0G03862	Glucose-1-phosphate adenylyltransferase	0.93	1.7	1.16	1.26	2.38	3.48	3.05	2.97	2.35	0.013923187
Asa8G05583	Ribosomal RNA small subunit methyltransferase NEP1	4.94	4.74	6.38	5.35	10	13.44	8.77	10.74	2.01	0.013979557
Asa8G05211	Amino acid transporter	1.13	0.73	1.03	0.96	1.76	2.53	2.31	2.2	2.28	0.013992411
Asa8G02624	50S ribosomal protein L1	1.32	1.02	2.32	1.55	3.21	4.19	4.89	4.1	2.64	0.014006859
Asa1G00099	Protein kinase domain	14.26	12.79	14.27	13.77	25.64	26.13	33.95	28.57	2.07	0.014019985
Asa8G05546	ZF-HD dimerization-type domain-containing protein	2.11	1.73	2.85	2.23	4.76	12.54	8.49	8.6	3.86	0.014019985
Asa3G01548	Nop domain-containing protein	46.03	44.14	45.8	45.32	84.04	114.96	138.28	112.43	2.48	0.014037491
Asa5G04224	DUF2428 domain-containing protein	1.03	1.11	1.79	1.31	3.38	3.45	2.19	3.01	2.3	0.014180123
Asa6G04199	DNA polymerase alpha subunit B	0.78	1	1.16	0.98	1.99	4.58	3.01	3.19	3.26	0.014206253
Asa8G04029	RNase III domain-containing protein	3.59	5.52	6.1	5.07	8.62	13.29	12.44	11.45	2.26	0.014252413
Asa7G01293	Unknown protein	0.87	1.04	1.29	1.07	2.39	3.73	2.94	3.02	2.83	0.014262018
Asa6G00827	RBR-type E3 ubiquitin transferase	0.81	0.59	0.57	0.66	1.27	2.09	2.07	1.81	2.76	0.014287873
Asa4G03523	5-oxoprolinase	18.5	15.78	17.25	17.18	31.88	37.53	47.56	38.99	2.27	0.014359975
Asa1G03439	Endoplasmic reticulum-Golgi intermediate compartment protein 3	4	2.65	3.11	3.25	5.83	7.07	6.79	6.56	2.02	0.01436196
Asa0G04230	RNase H domain-containing protein	41.91	36.21	41.35	39.82	72.4	134.74	139.07	115.4	2.9	0.014406048
Asa4G04766	alpha N-terminal protein methyltransferase 1	7.69	6.18	6.92	6.93	13.05	14.24	16.52	14.6	2.11	0.014536834
Asa8G05993	Putative membrane-associated kinase regulator 2	1.77	3.16	2	2.31	4.34	7.35	6.77	6.15	2.66	0.014558394
Asa2G07238	Aa_trans domain-containing protein	5.38	7.81	9.59	7.59	15.08	15.03	17.75	15.95	2.1	0.014606744
Asa8G03000	Stromal 70 kDa heat shock-related protein, chloroplastic	3.49	1.57	2.79	2.62	5.65	7.7	8.57	7.31	2.79	0.014651097
Asa2G03560	Histone H2B	9.21	9.05	12.68	10.31	18.11	31.68	31.86	27.22	2.64	0.014729844
Asa1G04819	Cyclin family protein	0.69	0.49	0.61	0.6	1.35	1.85	1.43	1.54	2.59	0.014857087

Asa2G03362	Pentatricopeptide repeat-containing protein	1.12	1.16	1.07	1.12	2.56	3.6	3.08	3.08	2.76	0.014899109
Asa7G07211	Flap endonuclease 1	3.76	3.73	4.28	3.92	8.76	8.24	7.47	8.16	2.08	0.014985177
Asa7G04929	factor of DNA methylation 1-like	6.8	7.15	7.41	7.12	12.34	16.43	19.1	15.96	2.24	0.014988146
Asa2G03371	RNA binding protein	155.73	154.3	156.88	155.64	253.26	335.76	377.53	322.18	2.07	0.01503245
Asa2G06578	Plasma membrane ATPase	1.75	1.96	2.16	1.96	3.95	3.76	4.76	4.16	2.12	0.015050443
Asa1G03467	Formin-like protein 18	1.05	1.1	0.8	0.98	2.96	4.07	2.97	3.33	3.39	0.015080354
Asa8G04360	Remorin family protein	0.35	0.2	0.27	0.27	1.88	7.93	3.36	4.39	16.06	0.015219961
Asa3G02918	lysine-specific demethylase JMJ25-like	1.56	1.02	2.09	1.56	3.7	4.01	3.27	3.66	2.35	0.015263911
Asa7G02721	Carboxypeptidase	3.77	3.58	4.21	3.85	8.13	11.62	5.86	8.54	2.22	0.015292507
Asa8G04503	Glutathione S-transferase	63.52	69.91	76.18	69.87	158.06	116.32	144.37	139.58	2	0.015306832
Asa0G02444	Regulator of chromosome condensation (RCC1) family protein	4.94	5.62	5.83	5.46	13.84	14.76	9.74	12.78	2.34	0.015359089
Asa2G00916	Putative F-box protein	0.99	1.37	1.32	1.23	3.21	4.43	2.71	3.45	2.81	0.015470504
Asa4G05822	Very-long-chain 3-oxoacyl-CoA reductase	8.94	8.11	12	9.68	17.74	18.55	22.74	19.68	2.03	0.015654449
Asa6G02016	Ubiquitin-conjugating enzyme, E2	0.06	0.03	0	0.03	0	5.04	5.73	3.59	119.67	0.015698608
Asa7G06087	Peptidase_S24 domain-containing protein	9.33	9.85	9.72	9.63	15.7	20.36	23.02	19.69	2.04	0.015850573
Asa6G02037	Glucan endo-1,3-beta-glucosidase	0.26	0.45	0.4	0.37	7.7	4.4	15.21	9.1	24.6	0.01594571
Asa4G03696	Unknown protein	3.96	3.97	5.84	4.59	8.19	16.74	11.27	12.07	2.63	0.015992747
Asa7G01098	Unknown protein	8.13	2.34	4.02	4.83	12.88	20.42	28.01	20.44	4.23	0.016055177
Asa6G01603	PREDICTED: argonaute	1.12	1.11	1.22	1.15	1.8	3.43	2.45	2.56	2.23	0.016210304
Asa1G04787	Putative amino acid transporter, transmembrane domain-containing protein	0.6	0.52	0.88	0.67	1.75	6.31	4.44	4.17	6.25	0.016210304
Asa5G03323	Myosin-M heavy protein	0.21	0.28	0.4	0.3	1.1	2.23	0.88	1.4	4.73	0.016210304
Asa6G03049	Putative oxysterol binding domain family protein	3.51	3.4	3.99	3.63	5.65	8.8	8.02	7.49	2.06	0.016323819
Asa8G03410	Checkpoint protein	0.88	1.2	1.28	1.12	2.8	2.98	3.26	3.01	2.69	0.016334355
Asa4G00784	Putative ovule protein	29.89	31.5	25.48	28.96	52.35	55.38	66.45	58.06	2.01	0.0163923
Asa8G02587	BTB/POZ domain-containing protein NPY1-like	0.41	0.8	0.6	0.6	1.15	2.14	1.48	1.59	2.64	0.016535655
Asa7G00330	Glutathione S-transferase	1.44	0.93	2.66	1.68	5.09	21.18	20.46	15.58	9.29	0.016615049
Asa2G02487	60S acidic ribosomal protein P1-like	4.58	4.39	5.41	4.79	8.41	11.96	10	10.12	2.11	0.016777902
Asa5G01536	Pentatricopeptide repeat-containing protein	0.31	0.46	0.34	0.37	1.06	1.42	0.64	1.04	2.81	0.016810098
Asa4G03005	ULP_PROTEASE domain-containing protein	8.84	7.24	7.34	7.81	16.41	16.24	16.37	16.34	2.09	0.016863595
Asa0G02421	PREDICTED: ATP-dependent DNA helicase	1.34	1.5	1.83	1.56	3.29	8.09	5.01	5.46	3.51	0.01686533
Asa5G03751	2-dehydro-3-deoxyphosphooctonate aldolase	1.18	0.86	0.94	0.99	2.14	3.37	1.96	2.49	2.51	0.016891625
Asa6G04139	Succinate dehydrogenase subunit 5, mitochondrial	0.15	0	0.45	0.2	1.81	1.51	2.27	1.86	9.32	0.016999896
Asa1G04603	Glutathione S-transferase	43.81	34.92	43.95	40.89	74.64	105.43	126.4	102.16	2.5	0.017052914
Asa6G01957	Ethylene insensitive 3-like protein	13.1	12.13	12.39	12.54	29.33	36.63	51.72	39.23	3.13	0.017105531
Asa8G02686	Myosin heavy chain-related	1.8	1.88	2.47	2.05	3.27	5.75	5.24	4.75	2.32	0.017186679
Asa0G01207	Ribosomal_L18e/L15P domain-containing protein	0.24	0.14	0.18	0.19	1.62	2.12	0.71	1.48	7.95	0.017259767
Asa4G01402	PREDICTED: IQ-DOMAIN	0	0.08	0	0.03	0.18	3.02	2.05	1.75	65.62	0.017442764
Asa4G03892	Lipase_3 domain-containing protein	0.12	0.08	0.02	0.07	0.25	1.03	0.66	0.65	8.82	0.017511946
Asa1G04339	glucan endo-1,3-beta-glucosidase 3-like	6.11	6.4	8.35	6.95	11.19	18.75	18.01	15.98	2.3	0.017642165
Asa6G06697	Unknown protein	7.18	9.5	13.63	10.1	22.08	26.34	17.24	21.89	2.17	0.017674256
Asa7G01149	Ribonuclease 3-like protein	1.44	1.64	1.58	1.55	3.01	7.64	5.76	5.47	3.52	0.01769057
Asa6G01959	Ethylene insensitive 3-like protein	13.1	12.13	12.39	12.54	29.3	36.5	51.69	39.16	3.12	0.017751056
Asa4G06072	Tryptophan aminotransferase-related protein 4	11.64	11.69	13.7	12.34	40.13	39.02	19.05	32.73	2.65	0.01790188

Asa2G04805	DNA (Cytosine-5-)-methyltransferase	3.54	3.52	4.92	3.99	7.98	17.93	10.75	12.22	3.06	0.017968405
Asa1G03768	PMR5N domain-containing protein	0.74	0.51	0.68	0.64	1.21	1.94	1.46	1.54	2.39	0.018040763
Asa2G06731	UPF0481 protein	0	0	0	0	0.13	1.19	0.86	0.73	72.67	0.018051161
Asa5G05591	Ribosomal protein L37	57.77	51.01	63.35	57.38	103.63	133.35	163.78	133.59	2.33	0.018079456
Asa4G04341	regulatory protein NPR5-like	1.44	1.97	2.51	1.97	3.85	8.74	5.89	6.16	3.12	0.01812185
Asa7G05313	Histone H2B	0.07	0.15	0.25	0.16	2.95	7.07	15.6	8.54	54.51	0.018137257
Asa3G04172	MLO-like protein	50.58	47.93	54.6	51.04	103.82	129.06	171.01	134.63	2.64	0.018147309
Asa4G00245	BRI1-associated receptor kinase	0	0	0.05	0.02	0.14	0.93	1.26	0.78	46.6	0.018254808
Asa1G02087	Transmembrane protein	0.21	0.32	0.27	0.27	0.87	20.73	14.42	12.01	45.03	0.018315135
Asa6G00594	Aldehyde dehydrogenase	37.61	30.44	44.37	37.47	94.17	124.63	179.83	132.88	3.55	0.018526964
Asa8G02301	NMO domain-containing protein	27.59	27.81	30.88	28.76	74.3	80.25	123.1	92.55	3.22	0.01853384
Asa0G04667	plant cysteine oxidase 2-like	8.44	8.12	5.71	7.42	13.68	18.98	22.24	18.3	2.47	0.018545936
Asa3G02270	Plasma membrane ATPase	7.67	8.05	8.86	8.19	18.34	19.67	14.3	17.44	2.13	0.018556848
Asa0G01949	protein kinase family protein	1.72	1.9	2.04	1.89	3.55	4.67	4.28	4.17	2.21	0.018577153
Asa4G01612	Unknown protein	31.15	25.41	27.03	27.86	44.96	84.82	80.07	69.95	2.51	0.018596876
Asa2G05310	GDSL esterase/lipase	7.25	4.91	5.98	6.05	11.13	19.24	21.54	17.3	2.86	0.018657378
Asa7G05624	Annexin	4.64	4.2	6.29	5.04	12.81	39.45	40.01	30.76	6.1	0.01868354
Asa3G02250	60S acidic ribosomal protein P1-like	4.66	4.47	5.41	4.85	8.41	12	10	10.14	2.09	0.018692443
Asa6G01219	Unknown protein	0.12	0.28	0.33	0.24	0.54	1.3	1.12	0.99	4.05	0.018721168
Asa6G00311	H/ACA ribonucleoprotein complex non-core subunit NAF1-like	6.78	5.96	6.97	6.57	12.79	17.79	22.37	17.65	2.69	0.018731803
Asa7G07584	Tetraspanin-2	2.08	2.03	2.59	2.23	4.8	5.66	4.7	5.05	2.26	0.01877325
Asa5G05505	Protein translocase subunit SecA	5.54	6.44	6.54	6.17	11.33	14.81	13.52	13.22	2.14	0.018775212
Asa6G01462	DNA polymerase epsilon catalytic subunit A	18.88	21.26	23.34	21.16	163.51	114.31	291.42	189.75	8.97	0.018869138
Asa8G02112	Unknown protein	2.81	2.4	2.92	2.71	10.54	42.86	51.81	35.07	12.94	0.018880424
Asa6G03296	CRAL-TRIO domain-containing protein	6.67	6.29	6.91	6.62	12.58	13.95	18.37	14.97	2.26	0.018906594
Asa0G02686	Remorin_C domain-containing protein	3.67	3.36	3.27	3.43	5.9	12.24	11.41	9.85	2.87	0.018929048
Asa6G01479	Gibberellin 2-beta-dioxygenase	0.55	0.75	1.02	0.77	2.48	1.76	2.92	2.39	3.09	0.01899534
Asa4G03854	PREDICTED: DUF674	0	0	0	0	0.26	1.51	0.63	0.8	80	0.019133292
Asa5G05560	Alliinase	1098.98	887.77	1177.42	1054.72	1791.68	2329.41	2750.58	2290.56	2.17	0.019505669
Asa8G04180	Alcohol dehydrogenase	7.65	7.39	11.38	8.81	32.69	37.5	65.41	45.2	5.13	0.019712983
Asa8G00317	ethylene-responsive transcription factor	3.59	3.39	3.67	3.55	6.62	8.91	10.58	8.7	2.45	0.019752397
Asa8G03284	Transcription factor CYCLOIDEA	0.12	0	0.05	0.06	0.23	2.16	2.18	1.52	26.88	0.019783625
Asa6G05228	Aminopeptidase	13.17	10.54	12.95	12.22	26.33	24.53	24.35	25.07	2.05	0.019858444
Asa5G00985	Receptor-like protein kinase	1.21	1.87	1.9	1.66	3.29	6.4	3.76	4.48	2.7	0.019858444
Asa2G04173	Unknown protein	2.01	1.22	2.15	1.79	3.86	7.47	3.74	5.02	2.8	0.019930279
Asa7G04299	Aldose 1-epimerase	8.22	6.14	6.92	7.09	12.18	28.68	21.24	20.7	2.92	0.019943893
Asa2G02678	Monofunctional biosynthetic peptidoglycan transglycosylase	0.34	0.56	0.49	0.46	2	1.66	1.12	1.59	3.44	0.019943893
Asa5G02697	Myb family transcription factor	7.69	6.18	8	7.29	14.94	22.8	28.76	22.17	3.04	0.019994789
Asa2G05496	Histone-lysine N-methyltransferase	1.43	1.17	1.92	1.51	3.56	6.32	2.95	4.28	2.84	0.020097649
Asa5G05019	Micronuclear linker histone polyprotein-like protein	0.7	0.4	0.88	0.66	1.8	2.22	3.37	2.46	3.73	0.020113757
Asa2G03691	Histone H4	2.89	2.89	3.37	3.05	5.45	9.84	7.39	7.56	2.48	0.020195198
Asa0G03098	Glycosyltransferase	0.06	0.13	0.11	0.1	1.19	6.52	2.3	3.34	33.37	0.020201548
Asa5G03499	Receptor-like protein kinase	0.07	0.08	0.09	0.08	0.2	0.48	0.24	0.31	3.83	0.020308815
Asa4G02201	Cyclin	0.07	0.21	0.11	0.13	0.42	1.46	0.99	0.96	7.36	0.020391348
Asa7G05957	Ubiquitin	12.06	15.26	17.93	15.08	24.92	33.01	34.31	30.75	2.04	0.020474781
Asa0G03496	Unknown protein	2.94	1.5	1.82	2.09	8.7	13.68	4.34	8.91	4.27	0.020525124



Asa7G00011	Terpene cyclase/mutase family member	1.78	1.11	1.37	1.42	2.86	3.6	3.72	3.39	2.39	0.020530384
Asa5G04992	putative methyltransferase C9orf114	2.58	2.24	2.41	2.41	4.22	5.73	5.14	5.03	2.09	0.020723316
Asa4G04300	Protein EFR3	1.68	1.65	1.69	1.67	3.36	9.31	8.11	6.93	4.14	0.020745831
Asa3G01973	Peroxisomal membrane protein PMP22	0.49	0.53	0.97	0.66	1.74	2.83	2.02	2.2	3.31	0.02076465
Asa6G05931	DNA helicase	5.21	5.48	5.58	5.42	11.68	31.78	19.46	20.97	3.87	0.020815879
Asa0G05531	Beta-galactosidase	1.94	2.13	2.52	2.2	3.72	4.59	4.96	4.42	2.01	0.020895322
Asa6G06157	Mitochondrial carrier-like protein	2.21	1.2	1.79	1.73	4.23	3.6	5.45	4.43	2.55	0.0209336
Asa5G05780	Putative amino acid transporter, transmembrane domain-containing protein	0.44	0.51	1.2	0.72	2.2	8.26	4.8	5.09	7.1	0.020958282
Asa4G00624	Protein O-linked-mannose beta-1,4-N-acetylglucosaminyltransferase 2	0.98	1.28	1.38	1.21	3.01	2.49	3.63	3.04	2.51	0.021012446
Asa4G03688	Putative Heavy metal-associated domain, HMA	0.32	0.3	0.81	0.48	3.01	2.18	1.64	2.28	4.78	0.021012446
Asa1G00951	HTH-type transcriptional regulator protein ptxE	18.15	17.04	22.12	19.1	47.11	144.89	83.88	91.96	4.81	0.021069325
Asa6G00972	Tryptophan synthase beta chain	0.03	0.09	0.14	0.09	0.33	2.15	1.61	1.36	15.73	0.021093316
Asa1G00274	U4/U6 small nuclear ribonucleoprotein PRP4-like protein	13.96	14.98	15.51	14.82	29.27	34.56	45.77	36.53	2.47	0.021233691
Asa2G05647	Putative DNA binding protein	1.41	1.77	1.03	1.4	2.74	5.58	3.39	3.9	2.78	0.021253143
Asa6G03653	Histone H3	3.81	3.29	4.23	3.78	6.86	17.41	14.3	12.86	3.4	0.021267903
Asa5G02793	UDP-glycosyltransferase	0.21	0.08	0	0.1	0.31	1.91	1.54	1.25	12.97	0.021312862
Asa8G02752	Methyltransf_11 domain-containing protein	57.09	46.37	49.73	51.06	105.57	137.95	70.24	104.59	2.05	0.021350294
Asa6G05428	V-type proton ATPase subunit E	5.25	4.79	5.54	5.19	9.54	14.95	17.58	14.02	2.7	0.021471146
Asa3G03435	Exocyst subunit Exo70 family protein	0.69	0.74	0.86	0.76	1.42	1.94	2.02	1.79	2.35	0.021698508
Asa0G05136	Cellulose synthase	11.7	12.11	12.65	12.15	25.14	29.58	19.64	24.79	2.04	0.021712491
Asa2G07084	Protein SUPPRESSOR OF K(+) TRANSPORT GROWTH DEFECT 1	5.24	5.54	6.95	5.91	12.32	14.29	10.04	12.22	2.07	0.021717528
Asa6G00825	Polygalacturonase inhibitor	7.46	8.12	10.65	8.74	15.21	21.83	24.64	20.56	2.35	0.021739495
Asa0G02342	DNA double-strand break repair rad50 ATPase	8.64	5.18	8.96	7.59	15.57	19.16	14.05	16.26	2.14	0.021745719
Asa0G00253	Unknown protein	0.02	0	0	0.01	0.02	0.61	0.48	0.37	55.5	0.021853317
Asa7G02189	Squamosa promoter-binding-like protein	0	0	0	0	0	1	0.92	0.64	64	0.021861325
Asa1G03388	Cysteine synthase	3.37	2.98	3.15	3.17	7.07	6.68	6.35	6.7	2.12	0.021885975
Asa1G02604	Unknown protein	1.46	1.44	1.76	1.55	5.19	4.33	4.77	4.76	3.07	0.02192012
Asa8G02172	Phytoeyanin domain-containing protein	0.73	0.92	0.96	0.87	1.76	4.57	2.95	3.09	3.56	0.022036422
Asa2G03398	NUC173 domain-containing protein	10.62	10.19	10.36	10.39	16.65	23.09	25.95	21.9	2.11	0.022060007
Asa1G01874	MYB transcription factor	0.77	0.45	1.32	0.85	2.14	3.43	4.57	3.38	3.99	0.022127612
Asa2G05301	Glycylpeptide N-tetradecanoyltransferase	1.8	2.07	2.54	2.14	3.99	8.62	5.23	5.95	2.78	0.022174216
Asa1G01828	Histone H3	5.62	5.44	9.27	6.78	11.24	20.93	17.85	16.67	2.46	0.022196674
Asa4G00978	Putative transcription factor bHLH family	0.17	0.1	0.66	0.31	1.06	1.68	0.96	1.23	3.98	0.022296995
Asa2G02798	Cytochrome P450	5.96	4.79	5.27	5.34	12.49	14.18	7.16	11.28	2.11	0.022339332
Asa1G03888	Putative DNA binding protein	1.41	1.77	1.03	1.4	2.74	5.62	3.39	3.92	2.79	0.022343432
Asa7G06918	CBFD_NFYB_HMF domain-containing protein	11.48	10.76	11.9	11.38	17.34	25.21	26.81	23.12	2.03	0.0223487
Asa2G05145	Isochorismatase domain-containing protein	11.85	2.42	5.14	6.47	24.53	123.94	160.93	103.13	15.94	0.022403438
Asa2G06887	Unknown protein	1.12	1.07	0.86	1.02	2.87	3.53	2.69	3.03	2.98	0.022437607
Asa7G03315	GTP diphosphokinase	0.4	0.21	0.19	0.27	0.92	0.86	0.77	0.85	3.19	0.022489601
Asa8G03192	Zinc finger CCCH domain-containing protein	105.49	92.9	113.4	103.93	218.84	249.71	349.96	272.84	2.63	0.022502663
Asa5G02816	GTD-binding domain-containing protein	1.1	1.28	1.42	1.27	2.07	3.54	2.3	2.64	2.08	0.02254193
Asa4G04639	High affinity cationic amino acid transporter 1	1.03	0.82	1.11	0.99	2.12	2.73	1.71	2.19	2.22	0.022650583
Asa2G04806	DNA (Cytosine-5-)-methyltransferase	2.76	2.94	3.99	3.23	6.6	15.39	8.88	10.29	3.19	0.022697268
Asa5G00025	3-ketoacyl-CoA synthase	0.54	0.15	0.31	0.33	0.96	1.66	0.68	1.1	3.3	0.022738754
Asa3G00985	agmatine coumaroyltransferase-2-like	0	0.05	0.27	0.11	1.09	0.86	2.12	1.36	12.72	0.0228234

Asa2G02715	Protein kinase family protein	0.2	0.14	0.18	0.17	0.59	3.57	2.29	2.15	12.4	0.022850131
Asa1G00789	Unknown protein	9.52	7.87	14.04	10.48	19.62	24.75	29.99	24.79	2.37	0.022853607
Asa8G05137	ARM repeat superfamily protein	0.12	0.14	0.18	0.15	0.29	0.78	0.56	0.54	3.7	0.022933507
Asa8G01682	RPOL4c domain-containing protein	26.21	25.89	20.83	24.31	49.95	41.77	56.29	49.34	2.03	0.022939787
Asa4G03813	Unknown protein	5.18	4.02	5.28	4.83	9.99	26.29	15.35	17.21	3.57	0.023018395
Asa8G05004	Peptidyl-prolyl cis-trans isomerase CYP65	7.55	6.24	9.61	7.8	12.58	19.11	19.8	17.16	2.2	0.02308105
Asa8G02617	Opaque endosperm1	1.47	0.98	1.53	1.33	2.2	4.38	3.72	3.43	2.59	0.02323451
Asa7G04099	O-methyltransferase	38.76	7.4	21.74	22.63	243.62	780.71	1612.04	878.79	38.83	0.02324384
Asa4G04714	Glycosyltransferase	0.22	0.16	0.21	0.2	0.75	3.04	3.79	2.53	12.85	0.023264005
Asa1G00401	Mechanosensitive ion channel protein	8.88	10.3	18.02	12.4	21.72	32.24	30.57	28.18	2.27	0.023267505
Asa8G05097	Sodium/hydrogen exchanger	0.17	0.1	0.4	0.22	1.19	1.35	1.57	1.37	6.13	0.023273454
Asa2G00848	copine family protein 2-like isoform X2	1.02	1.1	1.3	1.14	2.05	4.73	3.08	3.29	2.88	0.023321613
Asa1G02917	Protein PLANT CADMIUM RESISTANCE 2	1.71	2.37	2.8	2.29	4.24	7.03	5.23	5.5	2.4	0.023344521
Asa2G04043	Unknown protein	24.63	19.64	21.34	21.87	40.8	47.82	62.62	50.41	2.31	0.023354421
Asa7G07583	Tetraspanin-2	1.88	1.91	2.84	2.21	5.24	5.43	5.3	5.32	2.41	0.023379775
Asa2G06805	probable transcription factor KAN2	1.5	0.99	1.73	1.41	2.8	3.65	3.16	3.2	2.28	0.02338629
Asa7G02663	Phosphatidylinositol 4-phosphate 5-kinase 1	6.5	4.13	5.39	5.34	9.27	10.39	12.75	10.8	2.02	0.023603587
Asa5G00486	Heat stress transcription factor	0.78	0.16	0.13	0.36	0.9	1.78	2.09	1.59	4.46	0.023618252
Asa0G01705	protein TPX2-like	0.1	0.13	0.05	0.09	0.3	0.61	0.81	0.57	6.14	0.023618252
Asa4G02588	Endoglucanase	0.37	0.4	0.57	0.45	1.09	1.37	1.34	1.27	2.84	0.023778825
Asa1G00953	HTH-type transcriptional regulator	12.45	10.74	14.34	12.51	33.25	87.53	41.86	54.21	4.33	0.023827375
Asa2G03605	WD repeat and HMG-box DNA-binding protein 1	3.83	3.38	4.4	3.87	7.88	10.49	8.77	9.05	2.34	0.023827375
Asa0G03481	2-alkenal reductase (NADP(+)-dependent)-like	0.51	0.32	0.37	0.4	1.73	4.81	7.11	4.55	11.38	0.023827375
Asa6G01791	Protein kinase domain	9.76	9.39	9.61	9.59	15.61	23.39	25.98	21.66	2.26	0.023831033
Asa5G04597	HTH myb-type domain-containing protein	2.62	1.97	2.58	2.39	5.31	14.37	7.9	9.19	3.85	0.023989279
Asa2G02074	Proliferating cell nuclear antigen	3.67	4.79	6.11	4.86	9.95	22.46	12.97	15.13	3.11	0.024007343
Asa2G01636	TPR_REGION domain-containing protein	0.06	0.02	0.1	0.06	0.12	4.49	3.01	2.54	42.33	0.024126631
Asa5G02798	WEB family protein	1	1.03	0.96	1	1.97	5.33	3.47	3.59	3.6	0.024211674
Asa4G03456	MADS-box transcription factor	0.33	0.69	0.41	0.48	1.03	2.11	1.27	1.47	3.08	0.024226414
Asa4G05034	Urb2 domain-containing protein	6.49	6.07	6.83	6.46	15.93	15.87	8.68	13.49	2.09	0.024368759
Asa7G00027	Translin	10.51	10.64	10.33	10.49	21.81	21.51	19.66	20.99	2	0.0244516
Asa5G00698	Glycosyltransferase	1.25	1.02	0.93	1.07	1.76	2.97	3.15	2.63	2.46	0.024591848
Asa5G05381	Cyclin-dependent kinases regulatory subunit	3.86	3.15	4.49	3.83	8.43	29.64	20.95	19.67	5.13	0.02467778
Asa3G03551	protein kinase family protein	0.86	0.52	0.56	0.65	1.56	5.81	5.61	4.33	6.69	0.02470833
Asa4G04824	Unknown protein	4.13	2.51	3	3.21	8.91	9.91	8.36	9.06	2.82	0.024713431
Asa2G07433	Cellulose synthase	0	0.02	0.01	0.01	0.16	0.14	0.12	0.14	14	0.024779518
Asa8G00037	BURP domain-containing protein	0.15	0.82	0.79	0.59	1.46	2.28	2	1.91	3.26	0.02502922
Asa5G01449	Serine carboxypeptidase family protein, expressed	1.89	1.05	1.45	1.46	2.73	4.04	4.95	3.91	2.67	0.025031522
Asa3G03095	PPM-type phosphatase domain-containing protein	2.1	2.01	1.7	1.94	3.62	6.65	5.46	5.24	2.71	0.025037743
Asa2G05220	Putative B3 domain-containing protein	3.32	2.24	3.7	3.09	6.58	16.02	8.54	10.38	3.36	0.025120472
Asa2G03221	Putative ion channel POLLUX	5.46	5.27	5.86	5.53	10.01	11.24	12.49	11.25	2.03	0.02515463
Asa1G01502	Kinase like protein	0.92	1.06	1.21	1.06	2.5	5.04	2.37	3.3	3.11	0.025216414
Asa3G04060	PMD domain-containing protein	4.99	6.49	7.3	6.26	13.06	14.32	11.12	12.83	2.05	0.025266543
Asa3G01391	cation/H(+) antiporter 15	0.13	0.15	0.18	0.15	0.37	0.68	0.46	0.5	3.28	0.025297566
Asa4G00752	Unknown protein	0	0	0.27	0.09	0.89	1.96	1.72	1.52	16.93	0.025297566
Asa1G00935	HTH-type transcriptional regulator protein ptxE	4.38	5.44	7.37	5.73	10.77	27.33	19.59	19.23	3.36	0.025314042

Asa6G04012	ALOG domain-containing protein	3.14	1.81	2.45	2.47	4.74	7.21	8.95	6.97	2.82	0.025432967
Asa6G03278	Abhydrolase_2 domain-containing protein	2.18	2.84	1.95	2.32	4.04	8.67	7.5	6.74	2.9	0.025432967
Asa4G02923	Midasin	2.52	2.67	4.18	3.12	6.26	9.36	11.46	9.03	2.89	0.025432967
Asa6G06761	probable vacuolar amino acid transporter YPQ1	16.35	10.51	9.24	12.03	32	32.82	52.8	39.21	3.26	0.025445761
Asa2G03695	Unknown protein	3.43	1.74	3.16	2.78	6.31	8.56	5.61	6.83	2.46	0.025468721
Asa2G02586	Pentatricopeptide repeat-containing protein	0.04	0.03	0.07	0.05	0.44	0.43	0.58	0.48	10.36	0.02553591
Asa8G05927	SNARE-interacting protein KEULE	0.39	0.37	0.36	0.37	0.72	1.6	0.9	1.07	2.88	0.025664577
Asa2G03313	T-complex protein 1 subunit beta	25.71	23.63	26.59	25.31	42.54	50.23	61.81	51.53	2.04	0.025703876
Asa4G05851	Ribosome maturation factor	5.71	4.6	4.64	4.98	9.55	10.92	9.52	10	2.01	0.025708665
Asa7G03003	Valine-tRNA ligase	0.41	0.44	0.63	0.49	2.62	1.38	1.62	1.87	3.8	0.025803597
Asa1G00124	Cellulose synthase	0	0	0.02	0.01	0	1.11	1.17	0.76	114	0.02581484
Asa0G03503	Reductase	0	0.09	0.23	0.11	0.63	24.3	10.09	11.67	109.44	0.025877538
Asa2G07437	Unknown protein	14.24	14.46	12.41	13.7	27.4	31.71	25.44	28.18	2.06	0.026000476
Asa4G00241	Kinesin	0.17	0.1	0.07	0.11	0.23	0.66	0.65	0.51	4.53	0.026011508
Asa3G03646	AT5G11810-like protein	6.47	4.54	4.79	5.27	15	11.32	8.55	11.62	2.21	0.026175785
Asa4G00556	EF-hand domain-containing protein	0	0	0	0	0.42	1.18	2.45	1.35	135	0.02621066
Asa4G00963	HXXXD-type acyl-transferase family protein	1.75	1.14	1.56	1.48	3.37	3.71	3.8	3.63	2.44	0.026249672
Asa3G02917	Lysine-specific demethylase	2.16	2.75	2.35	2.42	4.51	6.87	8.04	6.47	2.67	0.026301985
Asa6G02200	Putative Receptor-kinase	8.3	9.05	10.7	9.35	14.21	22.66	22.47	19.78	2.12	0.026837194
Asa4G00451	Nascent polypeptide-associated complex subunit alpha, muscle-specific form-like	1.32	0.97	1.42	1.24	2.38	7.32	6.04	5.25	4.24	0.026953817
Asa1G04323	nuclear pore complex protein NUP155	6.91	7.41	7.83	7.38	11.65	15.62	17.58	14.95	2.02	0.026953817
Asa3G01691	Auxin efflux carrier	0.07	0.04	0.03	0.05	0.36	0.3	0.51	0.39	8.36	0.026978036
Asa6G01858	BURP domain-containing protein	0.74	0.75	0.94	0.81	1.53	3.69	2.22	2.48	3.06	0.026978036
Asa7G04348	Caffeoyl-CoA O-methyltransferase	0.07	0.31	0.1	0.16	1.07	1.41	0.56	1.01	6.33	0.027133236
Asa5G00797	beta-fructofuranosidase 1	11.75	12.73	14.87	13.12	33.89	129.73	77.9	80.51	6.14	0.027159461
Asa6G05571	Unknown protein	0.13	0.12	0.19	0.15	0.31	6.99	7.62	4.97	33.91	0.0271928
Asa4G03144	Cyclin	0.15	0.08	0.03	0.09	0.23	0.77	0.49	0.5	5.73	0.027203259
Asa8G06215	Formin-like protein	0.16	0.22	0.15	0.18	0.5	6.63	6.77	4.63	26.23	0.027455109
Asa6G01202	DEAD domain-containing protein	11.43	9.97	12.48	11.29	19.22	22.14	27.58	22.98	2.03	0.027461806
Asa6G02665	DUF659 domain-containing protein	4.07	3.3	4.35	3.91	9.16	18.79	8.52	12.16	3.11	0.027559987
Asa5G02372	Beta-glucosidase	0	0.03	0.04	0.02	0	3.2	4.52	2.57	110.29	0.027612108
Asa8G01132	Transcription termination factor like	3.63	2.95	3.4	3.33	9.86	8.61	6.63	8.37	2.52	0.027615707
Asa3G02701	High mobility group b protein 6	0.17	0.13	0.07	0.12	0.18	6.65	6.61	4.48	36.32	0.027628011
Asa8G00409	protein kinase family protein	0.18	0.42	0.28	0.29	1.01	1.82	1.95	1.59	5.43	0.027713647
Asa1G01403	putative axial regulator YABBY 2	2.27	1.64	1.98	1.96	3.6	5.85	3.48	4.31	2.2	0.02778512
Asa1G02945	FAD_binding_3 domain-containing protein	0.06	0.1	0.11	0.09	0.35	0.5	0.61	0.49	5.41	0.027915907
Asa8G05669	PREDICTED: cellulose synthase	0.74	0.91	1.07	0.91	1.86	2.2	1.6	1.89	2.08	0.027926112
Asa8G04361	Remorin_C domain-containing protein	0.56	0.51	0.37	0.48	1.79	9.37	11.44	7.53	15.69	0.027926112
Asa4G05591	Fanconi anemia group F protein (FANCF)	3.39	2.79	2.01	2.73	4.7	6.09	7.06	5.95	2.18	0.028180342
Asa5G03937	Unknown protein	2.86	1.43	0.57	1.62	4.01	4.66	5.37	4.68	2.89	0.02823182
Asa5G05173	protein CHUP1, chloroplastic-like	0	0.09	0.14	0.08	0.28	2.2	2.14	1.54	20.09	0.028417885
Asa4G03837	Heat shock 70 kDa protein	0.49	1.64	2.26	1.46	3.78	4.36	5.42	4.52	3.09	0.028419024
Asa3G03758	Coat protein	7.11	5.99	6.1	6.4	11.33	14.01	15.29	13.54	2.12	0.028437363
Asa6G06497	U-box domain-containing protein	0.06	0.03	0	0.03	0.07	1.64	1.39	1.03	34.44	0.028444344
Asa7G07647	Serine/threonine protein phosphatase 2A regulatory subunit	1.06	0.8	0.84	0.9	1.78	2.73	1.34	1.95	2.17	0.028510902
Asa8G05254	Histone H2A	4.12	5.3	5.91	5.11	8.37	13.33	10.31	10.67	2.09	0.028541399

Asa7G01896	RNA-binding protein	229.42	223.12	254.5	235.68	694	754.21	335.23	594.48	2.52	0.028553395
	protein POLAR LOCALIZATION DURING										
Asa6G04937	ASYMMETRIC DIVISION AND REDISTRIBUTION-like	0	0	0	0	0	0.83	0.65	0.49	49.33	0.028656869
Asa2G00295	Histone H3	11.33	9.99	11.61	10.98	19.16	51.75	39.7	36.87	3.36	0.028709861
Asa8G03917	Protein GIGAS CELL1-like	0.07	0.19	0.35	0.2	0.98	1.37	0.95	1.1	5.41	0.028812352
Asa2G04873	Cyclin	0.71	0.84	1.11	0.89	1.85	2.87	1.7	2.14	2.41	0.02882255
Asa6G01477	Unknown protein	7.54	7.52	6.06	7.04	15.01	15.74	14.81	15.19	2.16	0.028854936
Asa4G04219	DUF674 family protein	1.57	1.32	1.36	1.42	2.3	4.16	2.44	2.97	2.09	0.028857273
Asa2G07143	zinc_ribbon_12 domain-containing protein	2.32	1.85	2.22	2.13	3.56	9.1	7.06	6.57	3.09	0.028858906
Asa7G07556	Cytochrome P450 family protein, expressed	0.23	0.08	0.13	0.15	0.6	0.69	0.45	0.58	3.95	0.028878862
Asa6G02701	Pentatricopeptide repeat-containing protein, mitochondrial	1.43	1.58	2.34	1.78	4.18	3.83	5.66	4.56	2.56	0.028894248
Asa8G04796	AP2-like ethylene-responsive transcription factor	0.12	0.03	0	0.05	0.14	1.25	0.93	0.77	15.47	0.028924502
Asa0G01689	Histone acetyltransferase KAT6B-like	0.07	0	0.08	0.05	0.05	2.69	2.92	1.89	37.73	0.028930597
Asa6G03134	Receptor-like protein kinase	0.2	0.21	0.23	0.21	0.72	7.36	4.52	4.2	19.69	0.028991539
Asa3G02828	PREDICTED: U-box domain-containing	3.07	1.88	3.02	2.66	5.72	6.42	6.92	6.35	2.39	0.028991539
Asa0G03345	Non-symbiotic hemoglobin	8.76	11.01	9	9.59	22.57	24.52	36.4	27.83	2.9	0.028992255
Asa8G00639	CAP-gly domain linker	1.05	0.73	0.95	0.91	1.78	2.26	1.8	1.95	2.14	0.02903039
Asa6G03193	Chitin elicitor receptor kinase	6.59	6.79	6.13	6.5	15.16	14.16	21.74	17.02	2.62	0.029259791
Asa3G01193	UDP-glycosyltransferase	0.83	0.77	1.34	0.98	1.86	4.69	2.97	3.17	3.24	0.029295255
Asa3G00548	B3 domain-containing protein	4.83	5.22	5.83	5.29	9.1	11.69	11.01	10.6	2	0.029353931
Asa2G02628	PREDICTED: DNA-directed RNA polymerase	48.88	46.28	43.74	46.3	89.71	109.74	147.1	115.52	2.49	0.029415997
Asa3G04675	Peroxidase	2.31	1.41	2.4	2.04	5.74	6.04	5.23	5.67	2.78	0.029445081
Asa6G04826	RING-type domain-containing protein	2.96	1.45	2.35	2.25	3.49	5.88	5.61	4.99	2.22	0.0294975
Asa4G05371	DnaJ domain-containing protein	2.74	1.98	2.31	2.34	5.76	5.8	9.24	6.93	2.96	0.029507067
Asa5G01266	TPR_REGION domain-containing protein	1.21	1.09	1.67	1.32	2	3.72	2.82	2.85	2.15	0.029507067
Asa2G00017	Disease resistance protein	0.78	0.72	0.66	0.72	1.19	1.57	1.71	1.49	2.07	0.029540394
Asa4G04846	Histone H4	4.89	4.48	7.02	5.46	10.59	26.27	26.68	21.18	3.88	0.030149095
Asa0G03363	Eukaryotic translation initiation factor 2 subunit alpha	16.96	16.57	17.12	16.88	26.81	40.16	44.65	37.21	2.2	0.030235769
Asa4G00337	deoxyuridine 5'-triphosphate nucleotidohydrolase-like	0.51	0.75	0.71	0.66	1.78	9.67	8.88	6.78	10.32	0.030262466
Asa7G06597	Histone-lysine N-methyltransferase, H3 lysine-9 specific protein	0.88	0.72	0.53	0.71	1.28	1.57	1.75	1.53	2.16	0.030367511
Asa8G01105	Formin-like protein 18	3.03	3.56	3.33	3.31	8.14	7.27	6.82	7.41	2.24	0.030623067
Asa1G02964	Unknown protein	2.82	3.37	5.52	3.9	9.43	8.54	12.4	10.12	2.59	0.030726203
Asa8G00166	Factor of DNA methylation like	0.04	0.05	0.03	0.04	0.13	0.32	0.37	0.27	6.83	0.030735131
Asa7G06448	DUF3527 domain protein	1.69	1.34	1.59	1.54	2.35	4.34	2.73	3.14	2.04	0.0307538
Asa5G05788	Putative amino acid transporter, transmembrane domain-containing protein	0.71	0.65	1.25	0.87	2.2	8.09	4.62	4.97	5.71	0.030895507
Asa0G00420	Fe2OG dioxygenase domain-containing protein	8.51	7.65	3.26	6.47	11.94	28.83	25.08	21.95	3.39	0.030941169
Asa5G02417	probable membrane-associated kinase regulator 4	0	0	0	0	0	2.06	3.9	1.99	198.67	0.031083755
Asa8G02674	VWFA domain-containing protein	4.76	3.79	7.47	5.34	9.17	19.11	12.72	13.67	2.56	0.03108838
Asa6G02636	Subtilisin-like protease	2.81	2.61	2.6	2.67	5.72	5.28	5.21	5.4	2.02	0.03108838
Asa4G06039	Clp_N domain-containing protein	0.12	0.11	0.03	0.09	0.24	0.7	0.66	0.53	6.15	0.031146477
Asa7G03328	Protein DCL, chloroplastic	28.22	25.76	28.38	27.45	47.42	57.29	72.47	59.06	2.15	0.03124805

Asa4G02413	Putative DNA helicase chromatin remodeling SNF2 family	0.04	0.17	0.08	0.1	0.32	0.43	0.57	0.44	4.55	0.03124805
Asa0G00791	Peroxisomal membrane protein PMP22	1.19	0.85	1.24	1.09	2.96	3.4	2.53	2.96	2.71	0.031304729
Asa8G04784	NHL domain-containing protein	7.16	7.01	10.39	8.19	16.84	30.1	14.91	20.62	2.52	0.03135253
Asa6G00647	FAS1 domain-containing protein	0.72	0.51	0.6	0.61	2	1.79	2	1.93	3.16	0.031359972
Asa4G00293	Pathogenesis-related protein 1	0	0	0	0	0	2.68	4.4	2.36	236	0.031359972
Asa4G00821	Unknown protein	3.31	3.99	4.33	3.88	10.52	8.87	7.84	9.08	2.34	0.031485553
Asa0G01293	Xanthine dehydrogenase	62.91	49.4	49.11	53.81	109.55	120.41	171.03	133.66	2.48	0.031745702
Asa2G05337	Cytochrome P450	5.97	6.29	7.23	6.5	10.71	19.51	11.52	13.91	2.14	0.031747994
Asa7G03477	Ubiquitin-conjugating enzyme, E2	5.02	7.46	6.62	6.37	12.84	14.94	13.38	13.72	2.15	0.031747994
Asa6G02060	Unknown protein	0.1	0.18	0.4	0.23	1.03	4.54	6.1	3.89	17.16	0.03183183
Asa3G03615	LOB domain-containing protein	0	0	0	0	0.53	0.25	0.36	0.38	38	0.031884862
Asa7G02799	PREDICTED: non-symbiotic hemoglobin	13.8	13.26	9.57	12.21	24.48	33.3	43.76	33.85	2.77	0.031894624
Asa6G03098	Unknown protein	1.43	1.36	1.49	1.43	2.46	3.82	3.05	3.11	2.18	0.031894624
Asa7G05641	Polygalacturonase inhibitor	0.27	1.2	0.9	0.79	3.6	3.5	6.64	4.58	5.8	0.03196067
Asa7G01406	Receptor-like protein kinase	0.3	0.25	0.22	0.26	0.89	3.95	1.91	2.25	8.77	0.031997647
Asa2G05212	Putative high mobility group box domain-containing protein	2.3	3.92	1.48	2.57	7.99	53.05	56.85	39.3	15.31	0.03199771
Asa3G04040	Polygalacturonase inhibitor	0	0	0.03	0.01	0.05	1.41	0.85	0.77	77	0.032036148
Asa0G01649	beta-fructofuranosidase 1	20.47	18.01	20.95	19.81	43.44	152.84	93.88	96.72	4.88	0.032043434
Asa4G04314	Protein EFR3	2.02	1.92	2.04	1.99	3.55	10.16	8.29	7.33	3.68	0.032055773
Asa2G00751	Histone H3	3.24	2.31	3.65	3.07	6.62	20.55	11.67	12.95	4.22	0.032172692
Asa8G05691	Unknown protein	2.9	2.56	2.36	2.61	5.51	6.32	7.08	6.3	2.42	0.032320922
Asa2G03540	TPR_REGION domain-containing protein	0.71	1.54	1.55	1.27	2.35	4.84	3.37	3.52	2.78	0.032471678
Asa7G00657	DUF4283 domain-containing protein/zf-CCHC_4 domain-containing protein	1.44	1.06	1.41	1.3	2.64	3.91	2.76	3.1	2.38	0.032622594
Asa2G04817	Putative transcription factor bHLH family	1.18	0.22	0.7	0.7	1.4	5.73	5.1	4.08	5.82	0.032876987
Asa3G02377	40S ribosomal protein SA	4.46	2.43	3.2	3.36	6.94	6.66	9.37	7.66	2.28	0.032884356
Asa4G01715	WD and tetratricopeptide repeats protein 1-like	6.52	6.45	7.32	6.76	13.39	16.29	22.3	17.33	2.56	0.032913544
Asa5G05718	Histone H2B	43.2	41.48	46.29	43.66	62.41	119.6	90.24	90.75	2.08	0.032913544
Asa7G02295	Pentatricopeptide repeat-containing protein, mitochondrial	7.5	6.48	6.74	6.91	14.49	18.19	25.73	19.47	2.82	0.033058204
Asa0G01010	Polygalacturonase	0	0	0	0	0.04	7.74	34.19	13.99	1399	0.033198409
Asa7G07273	cell division cycle protein 48 homolog	49.84	45.63	46.95	47.47	87.69	97.51	131.09	105.43	2.22	0.033293759
Asa4G04050	Coatomer subunit beta	0.87	0.94	0.95	0.92	1.78	3.46	1.76	2.33	2.54	0.033421184
Asa1G01851	Histone H1-like protein	5.02	4.13	3.98	4.38	6.17	11.49	9.43	9.03	2.06	0.033568447
Asa0G00239	Cytochrome P450	0.06	0	0.02	0.03	0.1	0.44	0.57	0.37	13.87	0.033591538
Asa2G03608	Receptor protein kinase-like protein	1.66	1.67	1.98	1.77	3.39	9.36	9.15	7.3	4.12	0.033647165
Asa2G00984	Putative transcriptional activator DEMETER-like	0.45	0.51	0.53	0.5	1.2	1.75	0.98	1.31	2.64	0.03365935
Asa5G00040	DUF862 domain-containing protein	4.86	3.93	5	4.6	6.78	11.19	11.33	9.77	2.12	0.033746708
Asa4G01957	Polygalacturonase	0	0	0	0	0.04	7.41	32.89	13.45	1344.67	0.033971053
Asa6G06065	Protein TOO MANY MOUTHS	0.18	0	0.05	0.08	0.26	1.64	0.82	0.91	11.83	0.034033194
Asa3G04601	UDP-glycosyltransferase	0	0.02	0	0.01	0	2.42	1.09	1.17	175.5	0.034033194
Asa4G00223	Pentatricopeptide repeat-containing protein	1.39	1.68	1.64	1.57	3.07	3.45	3.78	3.43	2.19	0.034033194
Asa5G02610	Tubulin alpha chain	1.37	1.83	2.08	1.76	3.55	4.03	3.67	3.75	2.13	0.034100011
Asa2G03140	60S ribosomal protein L9	14.68	17.73	14.47	15.63	24.31	37.76	34.15	32.07	2.05	0.034188267
Asa7G04473	Cyclic pyranopterin monophosphate synthase	1.29	0.46	0.12	0.62	2.2	3.34	2.52	2.69	4.31	0.034217255

Asa6G04887	class I heat shock protein-like	1.75	2.14	3.02	2.3	8.69	6.81	7.36	7.62	3.31	0.03427517
Asa2G06982	Cytochrome P450	0.17	0.12	0.1	0.13	0.32	3.63	3.32	2.42	18.64	0.034391641
Asa2G06086	cold regulated protein 27	3.8	3.1	2.47	3.12	7.34	6.45	9.98	7.92	2.54	0.034400134
Asa4G00552	EF-hand domain-containing protein	0.11	0.06	0	0.06	1.07	1.24	0.26	0.86	15.12	0.034425707
Asa6G06243	Kinesin-like protein	0.2	0.12	0.23	0.18	0.5	1.91	2.05	1.49	8.11	0.034461166
Asa7G05685	Histone H2B	5.59	4.48	5.91	5.33	10.19	29.89	29.26	23.11	4.34	0.034480398
Asa2G06729	UPF0481 protein	0.14	0	0.07	0.07	0.18	1.34	1.05	0.86	12.24	0.034540397
Asa6G06201	PREDICTED: seed maturation PM41	0	0	0	0	1.64	0.38	2.58	1.53	153.33	0.034626809
Asa5G02696	Myb family transcription factor	5.56	4.42	5.84	5.27	10.11	18.03	22.04	16.73	3.17	0.034953714
Asa5G00305	TPR_REGION domain-containing protein	0.11	0.11	0.2	0.14	0.42	0.87	0.63	0.64	4.57	0.034968753
Asa0G03318	Histone H3	5.63	6.77	6.81	6.4	13.17	32.46	17.44	21.02	3.28	0.035227622
Asa7G00693	Receptor-like serine/threonine-protein kinase	0.34	0.34	0.36	0.35	0.72	0.96	0.97	0.88	2.55	0.035379522
Asa7G05898	MFS domain-containing protein	2.32	2.31	3.07	2.57	7.32	6.37	5.69	6.46	2.52	0.035396289
Asa5G05559	Alliinase	1167.47	927.72	1263.22	1119.47	1754.91	2333.65	2688.39	2258.98	2.02	0.035670748
Asa3G04414	spindle and kinetochore-associated protein 1 homolog	0.5	0.83	1.18	0.84	2.07	4.92	2.39	3.13	3.74	0.035681047
Asa7G05609	Unknown protein	0	0.09	0	0.03	0.19	2.69	2.61	1.83	61	0.035869699
Asa3G00582	F-box family protein	1.62	1.62	2.25	1.83	3.14	4.11	4.95	4.07	2.22	0.035869699
Asa6G01417	SAM-dependent MTase TRM10-type domain-containing protein	3	3.24	3.36	3.2	5.32	7.78	6.27	6.46	2.02	0.035878628
Asa3G01430	PR domain zinc finger protein 8, putative isoform 1	2.25	2.82	2.07	2.38	5.24	5.94	4.8	5.33	2.24	0.035935837
Asa4G04444	Unknown protein	2.23	2.52	1.27	2.01	7.69	6.34	3.47	5.83	2.91	0.036141524
Asa7G07253	Glutathione S-transferase	0.32	0.28	0.32	0.31	0.85	1.54	0.58	0.99	3.23	0.036141524
Asa4G03962	Beta-galactosidase	9.62	8.97	9.04	9.21	17.57	17.63	20.62	18.61	2.02	0.036332004
Asa4G05908	Putative serine/threonine-protein kinase TAO3-like	0	0	0	0	0	1.62	2.44	1.35	135.33	0.036433767
Asa7G00870	Auxin-responsive family protein	0.3	0.12	0.16	0.19	1	1.87	0.61	1.16	6	0.036469069
Asa3G04020	Unknown protein	7.65	5.88	8.52	7.35	12.53	14.99	17.02	14.85	2.02	0.036484465
Asa5G05055	MFS domain-containing protein	1.92	3.52	3.34	2.93	6.21	5.83	6.5	6.18	2.11	0.036484465
Asa5G01648	Heavy metal-associated isoprenylated plant protein	17.17	12.92	14.56	14.88	27.43	95.75	73.76	65.65	4.41	0.036661409
Asa3G04606	Kinesin-like protein	0.54	0.43	0.28	0.42	0.83	3.18	2.61	2.21	5.3	0.037037635
Asa8G04591	60S ribosomal protein L9	9.34	11.28	9.43	10.02	15.65	24.03	21.55	20.41	2.04	0.03717683
Asa2G02233	ABC transporter ATP-binding/permease protein like	0	0	0	0	0	1.96	1.17	1.04	104.33	0.037370984
Asa3G01065	CRC domain-containing protein	0.29	0.44	0.41	0.38	0.9	3.58	2.25	2.24	5.9	0.037423867
Asa1G03494	VARLMGL domain-containing protein	0.53	0.55	0.44	0.51	1.37	5.69	3.1	3.39	6.68	0.037554644
Asa2G03050	Unknown protein	1.33	0.84	0.82	1	2.65	4.76	2.08	3.16	3.17	0.037568914
Asa4G00848	60S ribosomal protein L17	106.72	102.72	106.17	105.2	188.85	218.64	288.74	232.08	2.21	0.037593604
Asa5G02358	Early nodulin-93	0	0	0	0	0.78	0.65	0.75	0.73	72.67	0.037638707
Asa1G02047	AT-hook motif nuclear-localized protein	0	0	0.04	0.01	0.19	2.52	0.96	1.22	91.75	0.037682921
Asa5G03037	synaptotagmin-5-like	0.14	0.17	0.21	0.17	0.43	0.85	0.44	0.57	3.31	0.03768576
Asa6G06867	SHSP domain-containing protein	21.89	19.22	22.49	21.2	44.15	62.8	29.36	45.44	2.14	0.037803784
Asa0G03275	Metacaspase	1.24	2	1.29	1.51	2.54	5.38	4.16	4.03	2.67	0.037823302
Asa7G04941	Heat shock 70 kDa protein, putative	10.48	8.43	8.18	9.03	16.08	16.65	21.97	18.23	2.02	0.037889002
Asa7G06955	Protein kinase domain-containing protein	0	0	0	0	0	2.97	2.13	1.7	170	0.037901374
Asa7G01855	Histone H4	4.64	3.11	5.58	4.44	7.32	10.42	11.61	9.78	2.2	0.037982703
Asa0G00292	Serine/threonine-protein kinase atr	0.21	0.12	0.09	0.14	0.36	3.16	3.36	2.29	16.38	0.037996489

Asa4G04284	Coat protein	3.38	2.83	3.12	3.11	5.24	6.79	6.95	6.33	2.03	0.038045483
Asa1G02919	Unknown protein	2.12	1.11	1.78	1.67	4.02	4.9	3.89	4.27	2.56	0.038133553
Asa4G02217	Pentatricopeptide repeat	0.44	0.19	0.28	0.3	0.91	0.78	0.65	0.78	2.57	0.038175971
Asa6G00959	Unknown protein	3.03	4.03	5.65	4.24	8.92	12.54	10	10.49	2.48	0.038220928
Asa2G00289	Usp domain-containing protein	16.95	17.97	20.86	18.59	37.25	51.78	69.6	52.88	2.84	0.038406114
Asa3G01593	Peroxidase	1.01	1.01	1.2	1.07	3.58	20.1	26.23	16.64	15.5	0.038706366
Asa4G01399	Kinesin	0.06	0.09	0.11	0.09	0.2	2.23	2.02	1.48	17.12	0.038770053
Asa2G04517	BHLH transcription factor	0.09	0.18	0.23	0.17	1.2	1.62	0.37	1.06	6.38	0.038858401
Asa5G03438	Putative coiled-coil domain-containing protein SCD2	0.43	0.49	0.58	0.5	1.15	2.3	1.03	1.49	2.99	0.038917695
Asa2G02799	Cytochrome P450	9.13	7.48	8.56	8.39	20.96	19.66	10.97	17.2	2.05	0.03894498
Asa2G00293	Histone H3	35.05	24.27	40.45	33.26	60.79	200.95	136.5	132.75	3.99	0.039072896
Asa4G04009	Unknown protein	1.71	1.87	2.03	1.87	4.19	5.49	2.54	4.07	2.18	0.039074421
Asa4G03329	Elongation factor 1-beta	134.27	111.71	106.47	117.48	263.34	349.71	513.63	375.56	3.2	0.039132775
Asa1G00958	Cytochrome c domain-containing protein	6.14	6.63	6.82	6.53	12.66	21.43	26.78	20.29	3.11	0.039696598
Asa6G06296	F-box domain-containing protein	2.16	2.53	1.6	2.1	4.42	5.16	3.41	4.33	2.07	0.03971105
Asa2G07239	Aa_trans domain-containing protein	5.81	6.44	7.74	6.66	14.87	12.99	14.17	14.01	2.1	0.039864403
Asa1G01948	bHLH-MYC_N domain-containing protein	7.77	6.83	6.03	6.88	12.53	13.02	17.23	14.26	2.07	0.039908864
Asa3G01551	Cyclin	0.03	0.02	0.09	0.05	0.07	3.14	4.67	2.63	56.29	0.039908864
Asa7G03799	Unknown protein	16.38	17.26	15.49	16.38	26.37	62.27	41.49	43.38	2.65	0.040226235
Asa3G03563	Carotenoid cleavage dioxygenase 8	0	0.02	0.02	0.01	0.03	2.29	1.08	1.13	85	0.040239168
Asa3G02574	ATP-dependent RNA helicase	90.36	79.27	85.57	85.07	158.15	182.33	249.08	196.52	2.31	0.040618078
Asa7G00925	Glycosyltransferase	0.55	0.51	0.36	0.47	0.89	2.24	1.27	1.47	3.1	0.040645202
Asa8G04864	Protein too many mouths	0.78	0.75	1.05	0.86	1.75	1.95	2.77	2.16	2.51	0.040683217
Asa5G03957	XRCC1_N domain-containing protein	2.87	3.01	2.99	2.96	4.89	6.69	8.06	6.55	2.21	0.040863792
Asa3G02986	Receptor-like serine/threonine-protein kinase	11.18	13.79	12.63	12.53	27.77	21.16	30.03	26.32	2.1	0.040879754
Asa7G05547	PREDICTED: Profilin	1.08	1.06	0.83	0.99	2.15	3.62	4.81	3.53	3.56	0.040926107
Asa7G05725	PREDICTED: starch synthase	0.84	1.04	0.99	0.96	1.82	2	2.7	2.17	2.27	0.041005122
Asa1G00241	Growth-regulating factor-like protein	1.09	1.14	2.09	1.44	4.07	18.89	10.01	10.99	7.63	0.041005122
Asa5G02939	Transmembrane protein 209	0.53	0.81	1.01	0.78	1.51	3.31	1.87	2.23	2.85	0.041013448
Asa1G04387	protein DCL, chloroplastic-like	2.66	1.6	2.41	2.22	3.45	6.24	6.53	5.41	2.43	0.041105961
Asa7G02551	Meiotic recombination protein SPO11-1	0	0.17	0.08	0.08	0.37	1.43	0.95	0.92	11	0.041150794
Asa1G02309	Protein SHI RELATED SEQUENCE like	0	0.07	0	0.02	0.08	1.48	0.98	0.85	36.29	0.04117441
Asa5G03893	Histone H3	22.1	22.29	28.77	24.39	35.72	59.93	58.7	51.45	2.11	0.041221652
Asa6G02525	SOSS complex subunit B	1.42	1.85	0.8	1.36	3.76	3.76	4.54	4.02	2.96	0.041224973
Asa5G04209	Structural maintenance of chromosomes protein	0.41	0.32	0.21	0.31	0.77	1.59	1.49	1.28	4.1	0.041324912
Asa6G05372	Fmp27_GFWDK domain-containing protein	0.3	0.31	0.36	0.32	0.73	0.67	0.64	0.68	2.1	0.04186169
Asa8G02597	C2H2-type domain-containing protein	0.94	0.99	0.78	0.9	1.73	5.28	3.29	3.43	3.8	0.041907196
Asa8G03193	Zinc finger CCCH domain-containing protein	100.5	91.71	98.77	96.99	191.39	216.04	307.49	238.31	2.46	0.04190817
Asa7G01407	Protein kinase family protein	0.4	0.41	0.62	0.48	1.74	6.6	2.77	3.7	7.77	0.042144354
Asa4G03734	CSC1-like protein	0	0	0.01	0	0.14	0.08	0.2	0.14	42	0.042228525
Asa3G02017	High mobility group (HMG) box domain- containing protein	5.87	4.73	7.94	6.18	21.41	41.7	13.52	25.54	4.13	0.042282866
Asa7G00656	RING-type domain-containing protein	9.46	11.22	11.71	10.8	18.77	24.96	30.89	24.87	2.3	0.042315866
Asa3G03150	protein RETICULATA-RELATED 3, chloroplastic-like	0.26	0.27	0.16	0.23	0.63	1.03	1.53	1.06	4.62	0.042315866
Asa3G04655	PHD domain-containing protein	0.92	0.59	0.86	0.79	1.23	2.08	1.82	1.71	2.16	0.042321339
Asa6G02716	Unknown protein	3.88	4.63	2.9	3.8	7.28	10.74	6.13	8.05	2.12	0.042424266

Asa5G03638	Potassium channel	1.03	0.8	1.18	1	1.94	2.59	1.73	2.09	2.08	0.042551381
Asa5G01398	Receptor-like protein kinase	0.1	0.15	0.22	0.16	0.91	2.48	0.71	1.37	8.72	0.042667166
Asa2G00230	Auxin response factor	0.75	0.53	1.04	0.77	1.53	1.82	1.83	1.73	2.23	0.042710682
Asa0G05944	DUF642 domain-containing protein	0	0.33	0.33	0.22	1.24	2.6	4.61	2.82	12.8	0.042803136
Asa7G06161	SU(VAR)3-9 homolog 9	0.22	0.42	0.47	0.37	1.19	3.21	4.39	2.93	7.92	0.042923241
Asa5G02794	Glycosyltransferase	0.64	0	0.14	0.26	0.57	1.54	1.55	1.22	4.69	0.042962314
Asa6G05444	Pentatricopeptide repeat-containing protein	0.4	0.38	0.21	0.33	0.81	1.08	0.81	0.9	2.73	0.04307582
Asa5G02318	Coatomer subunit beta	1.62	1.6	2.16	1.79	4.18	4.25	3.18	3.87	2.16	0.043183504
Asa3G04897	Unknown protein	2.05	0.75	0.74	1.18	2.41	5.47	6.48	4.79	4.06	0.043249829
Asa8G06050	Inositol polyphosphate 5-phosphatase	3.62	4.3	9.37	5.76	10.55	27.71	21.15	19.8	3.44	0.04325602
Asa7G00403	BHLH transcription factor	0.42	0.68	1.16	0.75	2.28	1.96	2.21	2.15	2.85	0.04325602
Asa3G02919	Reductase	0.21	0.24	0.25	0.23	9.75	7.38	36.14	17.76	76.1	0.043277293
Asa5G05289	Fn3_like domain-containing protein	1.19	2.05	2.58	1.94	3.44	8.89	7.13	6.49	3.34	0.04333939
Asa4G03233	Glycosyltransferase	0.63	0.46	0.48	0.52	1.44	2.89	1.07	1.8	3.44	0.043360151
Asa6G01355	Unknown protein	0.43	0	0	0.14	0.35	1.8	1.7	1.28	8.95	0.043476455
Asa7G04695	CST complex subunit CTC1	0.76	0.88	1.01	0.88	1.88	1.89	1.91	1.89	2.14	0.043640928
Asa5G04308	Kinesin motor domain-containing protein	0.88	0.23	0.08	0.4	0.85	2.38	2.48	1.9	4.8	0.04371418
Asa5G05557	Alliinase	1592.73	1244.56	1732.15	1523.15	2498.4	3318.81	4043.38	3286.86	2.16	0.043781889
Asa0G03022	Microtubule-associated protein	0.74	0.81	0.92	0.82	1.5	3.78	2.17	2.48	3.02	0.043812076
Asa1G02783	Cytomatrix family protein	0.04	0.04	0	0.03	0.09	0.77	0.52	0.46	17.25	0.043873068
Asa1G04797	PMR5N domain-containing protein	3.41	0.58	1.08	1.69	3.74	6.25	4.34	4.78	2.83	0.044110004
Asa4G01592	Receptor-like protein kinase	2.34	1.79	2.2	2.11	4.05	18.73	16.05	12.94	6.13	0.044424482
Asa5G05287	CDT1 domain-containing protein	0.38	0.47	0.46	0.44	0.85	3.15	2.19	2.06	4.73	0.044424482
Asa4G02020	Metacaspase	2.73	3.26	3.77	3.25	4.93	9.19	8.81	7.64	2.35	0.044538955
Asa4G01265	Kinesin-like protein	0.2	0.14	0.21	0.18	0.4	1.68	1.75	1.28	6.96	0.044573062
Asa1G01461	Toprim domain-containing protein	0.48	0.77	1.24	0.83	3.19	3.08	1.95	2.74	3.3	0.044573062
Asa3G02449	1-aminocyclopropane-1-carboxylate oxidase 1	0.35	1.52	2.56	1.48	8.24	4.84	4.28	5.79	3.92	0.044701371
Asa4G05913	bHLH-MYC_N domain-containing protein	17.5	16.5	21.2	18.4	31.75	98.93	69.14	66.61	3.62	0.044705773
Asa1G01232	Histone H4	4.77	3.91	7.12	5.27	9.19	26.99	24.87	20.35	3.86	0.044707214
Asa2G02077	Proliferating cell nuclear antigen	3.96	3.66	6.07	4.56	8.92	22.52	12.09	14.51	3.18	0.044793044
Asa2G06157	Pentatricopeptide repeat-containing protein	0.71	0.27	0.36	0.45	1.17	2.44	1.98	1.86	4.17	0.04486082
Asa8G06218	UvrD-like helicase ATP-binding domain-containing protein	1.58	2.28	2.07	1.98	5.45	3.83	3.5	4.26	2.16	0.045170059
Asa7G01323	AB hydrolase-1 domain-containing protein	0.6	0.66	0.66	0.64	1.21	2.22	2.08	1.84	2.87	0.045293163
Asa3G01595	WD_REPEATS_REGION domain-containing protein	1.87	1.62	1.35	1.61	3.1	3.72	5.12	3.98	2.47	0.045641654
Asa2G01372	Mads box protein, putative	0	0	0.18	0.06	0.57	1.39	0.55	0.84	13.94	0.045689751
Asa2G02821	protein FLOWERING LOCUS T-like	0.07	0.04	0	0.04	0.78	0.45	0.51	0.58	15.82	0.045774195
Asa2G00765	Protein kinase family protein	0.06	0.07	0.1	0.08	0.18	1.76	1.25	1.06	13.87	0.045783104
Asa4G06064	Unknown protein	0.45	0.26	0.43	0.38	1.55	2.29	1.36	1.73	4.56	0.045815447
Asa5G03069	Unknown protein	3.97	1.4	2.11	2.49	6.84	5	7.98	6.61	2.65	0.046006218
Asa2G04690	BURP domain-containing protein	7.74	1.92	6.59	5.42	17.61	47.62	16.7	27.31	5.04	0.046062145
Asa8G00984	Unknown protein	4.41	4.88	6.22	5.17	12.7	12.31	11.65	12.22	2.36	0.046212949
Asa2G00830	Unknown protein	1.09	0.47	0.42	0.66	1.86	3.21	2.29	2.45	3.72	0.046367211
Asa4G02825	Poly [ADP-ribose] polymerase	7.49	7.39	6.78	7.22	11.28	15.25	17.86	14.8	2.05	0.04637538
Asa8G03662	Serine/threonine-protein kinase atr	0	0.1	0.13	0.08	0.27	2.1	1.23	1.2	15.65	0.046700966
Asa4G01611	Regulator of chromosome condensation, RCC1	17.24	14.72	17.22	16.39	25.82	54.11	55.62	45.18	2.76	0.046700966
Asa4G04779	Transmembrane protein	0.04	0	0.06	0.03	0.05	1.42	1.06	0.84	25.3	0.046791793
Asa1G04087	Two-component response regulator	0.8	0.79	0.82	0.8	3.17	1.61	2.19	2.32	2.89	0.04684146



Asa4G03761	Putative JHL23J11.5-like	0.16	0.05	0	0.07	0.1	2.57	2.35	1.67	23.9	0.046874061
Asa2G06443	BHLH domain-containing protein	1.04	1.23	2.23	1.5	2.59	6.04	4.15	4.26	2.84	0.046999213
Asa3G01157	BRCT domain-containing protein	5.23	5.27	3.22	4.57	11.35	9.52	7.79	9.55	2.09	0.047176114
Asa7G06926	Unknown protein	1.54	0.75	1.55	1.28	2.8	4.04	4.13	3.66	2.86	0.047585094
Asa2G00306	Pentatricopeptide repeat-containing protein	10.57	10.92	10.05	10.51	19.9	23.45	32.32	25.22	2.4	0.047669387
Asa6G01159	Transcription factor like	0	0	0	0	0	0.59	0.33	0.31	30.67	0.047669387
Asa6G06200	Flowering locus T	9.56	6.71	7.22	7.83	21.73	14.07	14.25	16.68	2.13	0.047687964
Asa5G04605	ABC transporter G family member 36 like	0.93	0.8	0.7	0.81	1.45	1.87	2.46	1.93	2.38	0.047710683
Asa5G03328	Pectinesterase	0.25	0.17	0.15	0.19	0.18	6.94	7.32	4.81	25.33	0.047788247
Asa4G03357	RING-type E3 ubiquitin transferase	4.4	4.75	6.63	5.26	8.5	15.5	16.41	13.47	2.56	0.048164897
Asa4G01917	Putative transcription factor bHLH family	0.05	0.22	0.11	0.13	0.29	1	0.79	0.69	5.47	0.04870316
Asa1G02073	Histone H3	6.1	6.92	8.47	7.16	11	25.43	17.96	18.13	2.53	0.048903209
Asa2G06961	Glycosyltransferase	1.78	1.84	1.73	1.78	7.94	16.01	29.22	17.72	9.94	0.0492684
Asa7G05183	Cytochrome P450 family protein	2.37	1.98	2.32	2.22	6.87	11.78	19.32	12.66	5.69	0.049269529
Asa7G01788	Histone H2B	7.01	9.16	11.5	9.22	16.64	50.38	47.45	38.16	4.14	0.049477132
Asa0G03497	NB-ARC domain-containing disease resistance protein	1.27	0.97	1.21	1.15	3.97	7.79	2.41	4.72	4.11	0.049489168
Asa0G03146	Heat stress transcription factor b-4-like protein	0	0.03	0.04	0.02	0.19	1.09	0.43	0.57	24.43	0.049522033
Asa2G03269	Pentatricopeptide repeat	0.32	0.35	0.55	0.41	0.86	1.01	1.14	1	2.47	0.049646289
Asa5G01628	BHLH transcription factor	1.97	0.7	2.33	1.67	3.39	6.04	3.83	4.42	2.65	0.049652698
Asa5G05561	Alliinase	1244.52	984.39	1343.3	1190.74	1872.93	2512.33	2990.83	2458.7	2.06	0.04978594
Asa5G04158	Histone H3	9.14	10.21	11.46	10.27	17.5	41.25	24.03	27.59	2.69	0.04984138
Asa4G06179	GRF1-interacting factor 1	4.25	3.91	3.26	3.81	7.69	42.49	40.67	30.28	7.96	0.04984138