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*Functional Plant Biology*

### Supplementary Material

#### **Crucial role of *Arabidopsis* glutaredoxin S17 in heat stress response revealed by transcriptome analysis**

*Xiaolan Rao<sup>A</sup>, Ninghui Cheng<sup>B,\*</sup>, Iny E. Mathew<sup>B</sup>, Kendal D. Hirschi<sup>B</sup>, and Paul A. Nakata<sup>B,\*</sup>*

<sup>A</sup>State Key Laboratory of Biocatalysis and Enzyme Engineering, School of Life Sciences, Hubei University, Wuhan 430062, P. R. China.

<sup>B</sup>USDA/ARS Children's Nutrition Research Center, Department of Pediatrics, Baylor College of Medicine, Houston, TX 77030, USA.

\*Correspondence to: Ninghui Cheng USDA/ARS Children's Nutrition Research Center, Department of Pediatrics, Baylor College of Medicine, 1100 Bates Street, Houston, TX 77030, USA Email: [ncheng@bcm.edu](mailto:ncheng@bcm.edu); Paul A. Nakata USDA/ARS Children's Nutrition Research Center, Department of Pediatrics, Baylor College of Medicine, 1100 Bates Street, Houston, TX 77030, USA Email: [paul.nakata@usda.gov](mailto:paul.nakata@usda.gov)

Supplementary Table 1: Overview of RNA-sequencing

Sample	Description	original_reads	Trimmed_reads	Left_mapped_reads	Right_mapped_reads	Mapped_ratio
KO_22_1		41350316	41350208	19274956	18989917	0.92538526
KO_22_2		41663894	41663788	19375020	19291053	0.928049869
KO_22_3	mutant at 22°C	46713838	46713742	21691240	21585186	0.926417455
KO_28_1		45829860	45829764	21295136	21121554	0.925527131
KO_28_2		50259334	50259238	23298281	22980672	0.920804908
KO_28_3	mutant at 28°C	43065070	43064982	20028067	19730695	0.923227183
WT_22_1		46524846	46524688	21615608	21562181	0.928061871
WT_22_2		42596592	42596508	19764225	19690241	0.926237099
WT_22_3	wild type at 22°C	42341156	42341076	19663533	19415731	0.922963413
WT_28_1		44833222	44833134	20755661	20501762	0.92024401
WT_28_2		47106100	47105960	21736533	21604176	0.92006848
WT_28_3	wild type at 28°C	45160416	45160342	20990630	20876901	0.927086225



Supplementary Table S3. Differential expression genes (DEGs) related to heat stress response

gene_id	WT_28	KO_28	log2(Fold_chang	p_value	Adjusted_P	significant	Direction	Arabidopsis-s1	Arabidopsis-defline	BINCODE	NAME	DESCRIPTI	WT22vsWT28	KO22vsKO28	WT22vsKO22
AT2G2615	4.61542	1.4933	-1.62795791	0.00005	0.000283	yes	DOWN	H5FA2	heat shock transcription factor A2	20.2.1	stress.abio	Symbols: A UP			UP
AT5G5264	85.274	34.8401	-1.29135167	0.00005	0.000283	yes	DOWN	HSP90.1	heat shock-like protein	20.2.1	stress.abio	Symbols: H UP			UP
AT3G1258	166.628	76.3816	-1.12333804	0.00005	0.000283	yes	DOWN	HSP70	heat shock protein 70	20.2.1	stress.abio	Symbols: H UP			UP
AT1G5986	7.58431	3.48195	-1.123122448	0.00005	0.000283	yes	DOWN	HSP20-like chaperones superfamily	20.2.1	stress.abio	17.6 kDa ci UP			UP	
AT1G0740	9.33781	4.36304	-1.097750534	0.00005	0.000283	yes	DOWN	HSP20-like chaperones superfamily	20.2.1	stress.abio	17.8 kDa ci UP			UP	
AT5G4760	7.1721	3.70132	-0.95435734	0.00105	0.004439	yes	DOWN	HSP20-like chaperones superfamily	20.2.1	stress.abio	heat shock UP			UP	
AT3G1420	42.3466	22.3194	-0.923947896	0.00005	0.000283	yes	DOWN	Chaperone DnaJ-domain superfam	20.2.1	stress.abio	DNAJ heat UP			UP	
AT4G1166	9.47384	5.08902	-0.896561446	0.00025	0.001238	yes	DOWN	AT-HSFB2B	winged-helix DNA-binding transcrip	20.2.1	stress.abio	Symbols: A UP			UP
AT3G0944	199.266	107.185	-0.894592548	0.00005	0.000283	yes	DOWN	HSP70	Heat shock protein 70 (Hsp 70) fam	20.2.1	stress.abio	heat shock UP			UP
AT3G0897	9.46816	5.1692	-0.873143064	0.00075	0.0033	yes	DOWN	ATERD13A	DNAJ heat shock N-terminal domai	20.2.1	stress.abio	Symbols: A UP			UP
AT2G2714	6.28194	3.61052	-0.799003529	0.00065	0.002911	yes	DOWN	HSP20-like chaperones superfamily	20.2.1	stress.abio	heat shock DOWN			DOWN	
AT1G7431	13.31396	7.69475	-0.791604398	0.00005	0.000283	yes	DOWN	HSP101	heat shock protein 101	20.2.1	stress.abio	Symbols: A UP			UP
AT5G0954	3.33605	1.96672	-0.788405935	0.00155	0.006242	yes	DOWN	Chaperone DnaJ-domain superfam	20.2.1	stress.abio	DNAJ heat UP			UP	
AT3G1331	38.0022	22.0305	-0.78658702	0.00005	0.000283	yes	DOWN	Chaperone DnaJ-domain superfam	20.2.1	stress.abio	DNAJ heat UP			DOWN	
AT5G4759	7.7463	4.62874	-0.742887848	0.00005	0.000283	yes	DOWN	HSP20-like chaperones superfamily	20.2.1	stress.abio	heat shock UP			UP	
AT2G2056	30.9921	19.1231	-0.6965841	0.00005	0.000283	yes	DOWN	DNAJ heat shock family protein	20.2.1	stress.abio	DNAJ heat UP			UP	
AT5G3767	6.99394	4.40922	-0.66581957	0.00455	0.015822	yes	DOWN	HSP20-like chaperones superfamily	20.2.1	stress.abio	15.7 kDa ci UP			UP	
AT5G0489	5.25828	3.35604	-0.647831055	0.00008	0.003494	yes	DOWN	RTM2	HSP20-like chaperones superfamily	20.2.1	stress.abio	Symbols: R DOWN			DOWN
AT5G5601	159.036	102.616	-0.632097681	0.00005	0.000283	yes	DOWN	HSP81-3	heat shock protein 81.3	20.2.1	stress.abio	Symbols: H UP			UP
AT5G5144	34.2837	22.6297	-0.593035359	0.00005	0.000283	yes	DOWN	HSP20-like chaperones superfamily	20.2.1	stress.abio	23.5 kDa n UP			UP	
AT2G4013	2.75369	1.82686	-0.59200077	0.00007	0.003109	yes	DOWN	Double Clip-N motif-containing P-lox	20.2.1	stress.abio	heat shock UP			DOWN	
AT1G7241	35.1455	23.65	-0.571499796	0.00005	0.000283	yes	DOWN	Chaperone DnaJ-domain superfam	20.2.1	stress.abio	heat shock UP			UP	
AT1G7207	15.5485	10.5609	-0.5804262	0.00055	0.002512	yes	DOWN	Chaperone DnaJ-domain superfam	20.2.1	stress.abio	DNAJ heat UP			DOWN	
AT4G2992	1.96852	1.36358	-0.529712026	0.0041	0.014477	yes	DOWN	Double Clip-N motif-containing P-lox	20.2.1	stress.abio	heat shock protein-related			DOWN	
AT2G2950	9.6702	6.77909	-0.516449835	0.0029	0.010767	yes	DOWN	HSP20-like chaperones superfamily	20.2.1	stress.abio	17.6 kDa ci UP			UP	
AT5G4202	143.468	105.879	-0.438312511	0.00005	0.000283	yes	DOWN	BIP2	Heat shock protein 70 (Hsp 70) fam	20.2.1	stress.abio	Symbols: B UP			UP
AT5G5603	145.966	108.728	-0.424908844	0.00005	0.000283	yes	DOWN	HSP81-2	heat shock protein 81-2	20.2.1	stress.abio	Symbols: H UP			UP
AT4G3699	65.6234	48.9639	-0.422491869	0.00005	0.000283	yes	DOWN	H5F4	heat shock factor 4	20.2.1	stress.abio	Symbols: H UP			UP
AT4G2419	179.158	137.254	-0.384384272	0.00025	0.001238	yes	DOWN	SHD	Chaperone protein htpG family pro	20.2.1	stress.abio	Symbols: S UP			UP
AT5G1875	5.73384	4.52357	-0.347063307	0.0091	0.021854	yes	DOWN	DNAJ	DNAJ heat shock N-terminal domai	20.2.1	stress.abio	DNAJ heat UP			UP
AT5G2854	177.915	141.225	-0.333192649	0.00075	0.0033	yes	DOWN	BIP1	heat shock protein 70 (Hsp 70) fam	20.2.1	stress.abio	Symbols: B UP			UP
AT5G0250	741.717	596.604	-0.314095185	0.00925	0.028928	yes	DOWN	HSC70-1	heat shock cognate protein 70-1	20.2.1	stress.abio	Symbols: HSC70-1, HSP70-1, AT-HSC70-1, HSC70			UP
AT2G4624	7.02833	5.7302	-0.294596438	0.0141	0.041287	yes	DOWN	BAG6	BCL-2-associated athanogene 6	20.2.1	stress.abio	Symbols: BAG6, ATBAG6   BAG6 (BCL-2-ASSOCIATED ATHANOGENE 6); calmodulin binding / protein binding   chr2:18986133-18989947			FORWARD
AT1G7992	101.884	84.9244	-0.262676481	0.00895	0.028133	yes	DOWN	Hsp70-15	Heat shock protein 70 (Hsp 70) fam	20.2.1	stress.abio	ATP bindin UP			UP
AT1G2108	41.8978	35.2822	-0.24793397	0.01545	0.044567	yes	DOWN	DNAJ	DNAJ heat shock N-terminal domai	20.2.1	stress.abio	DNAJ heat shock N-terminal domain-containing protein   chr1:7378589-7382462			REVERSE

**Supplemental Table S4. Differential expression genes (DEGs) related to redox under normal and heat stress**

**Differential expression genes (DEGs) related to redox in wild type controls under heat stress**

gene_id	WT_22	WT_28	log2(Folder_chang p_value)	Adjusted_F significant	Direction	Arabidopsis-s	Arabidopsis-defline	BINCODE	NAME	DESCRIPTION
AT5G11930	0.370564	2.92765	2.981948453	0.0007	0.003109	yes	UP		Thioredoxin superfamily protein	redox.glut: glutaredoxin family protein   chr5:3844940-3845645 REVERSE
AT1G28480	0.996979	7.61444	2.933102917	0.0005	0.000283	yes	UP	GRX480	Thioredoxin superfamily protein	redox.glut: Symbols: GRX480   GRX480; electron carrier/ protein disulfide oxidoreductase   chr1:10013474-10014073 REVERSE
AT1G04980	7.04277	30.1027	2.095678019	0.0005	0.000283	yes	UP	PDIL2-2	PDIL-like 2-2	redox.thio: Symbols: ATPDL2-2, ATPD10, PD10   ATPDL2-2 (PDI-like 2-2); protein disulfide isomerase   chr1:1413644-1416144 REVERSE
AT4G33040	3.16298	13.3138	2.073566063	0.0005	0.000283	yes	UP		Thioredoxin superfamily protein	redox.glut: Symbols: thioredoxin family protein   chr4:15940561-15941330 REVERSE
AT5G21105	46.2932	171.481	1.889176538	0.0005	0.000283	yes	UP		Plant L-ascorbate oxidase	redox.asco L-ascorbate oxidase/ copper ion binding/ oxidoreductase   chr5:7172687-7177841 FORWARD
AT2G30540	3.5267	11.9019	1.754801139	0.0005	0.000283	yes	UP		Thioredoxin superfamily protein	redox.glut: glutaredoxin family protein   chr2:13011105-13011784 REVERSE
AT4G39830	1.32855	4.10747	1.628397513	0.0005	0.000283	yes	UP		Cupredoxin superfamily protein	redox.asco L-ascorbate oxidase, putative   chr4:18478929-18481343 FORWARD
AT1G75270	25.3349	63.9762	1.336409169	0.0005	0.000283	yes	UP	DHAR2	dehydroascorbate reductase 2	redox.asco Symbols: DHAR2   DHAR2 (DEHYDROASCORBATE REDUCTASE 2); glutathione binding/ glutathione dehydrogenase (ascorbate)   chr1:28250075-28251350 REVERSE
AT4G29210	18.819	44.311	1.235474917	0.0005	0.000283	yes	UP	GGT4	gamma-glutamyl transpeptidase 4	redox.asco Symbols: GGT3, GGT4   GGT4 (GAMMA-GLUTAMYL TRANSPEPTIDASE 4); gamma-glutamyltransferase/ glutathione gamma-glutamylcysteinyltransferase   chr4:14400932-14403519 FORWARD
AT2G48150	0.540891	1.25899	1.218857026	0.01415	0.041398	yes	UP	GPX4	glutathione peroxidase 4	redox.asco Symbols: ATGPX4   ATGPX4 (GLUTATHIONE PEROXIDASE 4); glutathione peroxidase   chr2:19687962-19689173 REVERSE
AT4G26850	78.4176	175.171	1.159514559	0.0005	0.000283	yes	UP	VTC2	GDP-L-galactose phosphorylase 1	redox.asco Symbols: VTC2   VTC2 (vitamin C defective 2); GDP-D-glucose phosphorylase/ GDP-galactose:glucose-1-phosphate guanylyltransferase/ GDP-galactose:mannose-1-phosphate guanylyltransferase
AT1G06640	93.7606	190.464	1.02246463	0.0005	0.000283	yes	UP		2-oxoglutarate (2OG) and Fe(II)-dep	redox.asco 2-oxoglutarate-dependent dioxygenase, putative   chr1:2032338-2034018 FORWARD
AT1G07890	800.773	1606.53	1.004482685	0.0005	0.000283	yes	UP	APX1	ascorbate peroxidase 1	redox.asco Symbols: APX1, CS1   APX1 (ascorbate peroxidase 1); L-ascorbate peroxidase   chr1:2437725-2439665 FORWARD
AT3G11630	627.9	306.493	-1.024680688	0.0005	0.000283	yes	DOWN		Thioredoxin superfamily protein	redox.perc 2-cys peroxidorexin, chloroplast (BAS1)   chr3:3672120-3674075 FORWARD
AT4G31870	2.0145	0.974341	-1.047932125	0.0028	0.010449	yes	DOWN	GPX7	glutathione peroxidase 7	redox.asco Symbols: ATGPX7   ATGPX7 (glutathione peroxidase 7); glutathione peroxidase   chr4:15410205-15411617 FORWARD
AT1G77490	118.802	50.6294	-1.230511831	0.0005	0.000283	yes	DOWN	TAPX	thylakoidal ascorbate peroxidase	redox.asco Symbols: TAPX   TAPX (THYLAKOIDAL ASCORBATE PEROXIDASE); L-ascorbate peroxidase   chr1:29117542-29120215 FORWARD
AT3G54660	136.389	57.161	-1.254624232	0.0005	0.000283	yes	DOWN	GR	glutathione reductase	redox.asco Symbols: GR, EMB2360, ATGR2   GR (GLUTATHIONE REDUCTASE); ATP binding/ glutathione-disulfide reductase   chr3:20229744-20233182 REVERSE
AT1G59730	3.17319	1.32973	-1.25480057	0.00645	0.021301	yes	DOWN	TH7	thioredoxin H-type 7	redox.thio: Symbols: ATH7   ATH7 (thioredoxin H-type 7)   chr1:21952634-21953456 REVERSE
AT3G10520	119.694	49.3156	-1.279234843	0.0005	0.000283	yes	DOWN	Hb2	hemoglobin 2	redox.hem Symbols: AHb2, GLb2, ARATH GLb2, NSHB2   AHb2 (ARABIDOPSIS HAEMOGLOBIN 2); oxygen transporter   chr3:3276226-3277860 REVERSE
AT5G01420	1.04026	0.417858	-1.31589495	0.00345	0.012504	yes	DOWN		Glutaredoxin family protein	redox.glut: glutaredoxin family protein   chr5:174799-176214 REVERSE
AT4G15680	16.1008	5.47192	-1.55701333	0.0005	0.000283	yes	DOWN		Thioredoxin superfamily protein	redox.glut: glutaredoxin family protein   chr4:8931652-8932295 FORWARD
AT2G28190	72.4904	24.6142	-1.58299099	0.0005	0.000283	yes	DOWN	CS2D	copper/zinc superoxide dismutase	redox.dism: Symbols: CS2D, CZSD2   CS2D (COPPER/ZINC SUPEROXIDE DISMUTASE 2); superoxide dismutase   chr2:12014498-12016569 FORWARD
AT1G20630	67.3781	22.4389	-1.586277793	0.0005	0.000283	yes	DOWN	CAT1	catalase 1	redox.dism: Symbols: CAT1   CAT1 (CATALASE 1); catalase   chr1:7146636-7149977 FORWARD
AT4G09010	320.605	96.8169	-1.727466119	0.0005	0.000283	yes	DOWN	TL29	ascorbate peroxidase 4	redox.asco Symbols: APX4   APX4 (ASCORBATE PEROXIDASE 4); heme binding/ peroxidase   chr4:5777397-5779462 REVERSE
AT5G16400	125.312	37.4627	-1.741997789	0.0005	0.000283	yes	DOWN	TRXF2	thioredoxin F2	redox.thio: Symbols: TRXF2, ATF2   ATF2; enzyme activator   chr5:5363661-5365334 REVERSE
AT2G5080	516.22	100.823	-2.356161249	0.0005	0.000283	yes	DOWN	GPX1	glutathione peroxidase 1	redox.asco Symbols: ATGPX1   ATGPX1 (GLUTATHIONE PEROXIDASE 1); glutathione peroxidase   chr2:10668049-10670019 FORWARD
AT4G15670	7.068	1.22829	-2.524650818	0.0005	0.000283	yes	DOWN		Thioredoxin superfamily protein	redox.glut: glutaredoxin family protein   chr4:8929179-8929765 FORWARD
AT4G15660	6.0685	0.789733	-2.941903076	0.0005	0.000283	yes	DOWN		Thioredoxin superfamily protein	redox.glut: glutaredoxin family protein   chr4:8925806-8926310 FORWARD
AT4G15690	28.6647	3.60799	-2.99007935	0.0005	0.000283	yes	DOWN		Thioredoxin superfamily protein	redox.glut: glutaredoxin family protein   chr4:8934324-8934921 FORWARD
AT4G15700	22.6475	2.27595	-3.314811035	0.0005	0.000283	yes	DOWN		Thioredoxin superfamily protein	redox.glut: glutaredoxin family protein   chr4:8937393-8937892 FORWARD
AT3G21460	3.63412	0.361322	-3.330249054	0.002	0.007794	yes	DOWN		Glutaredoxin family protein	redox.glut: electron carrier/ protein disulfide oxidoreductase   chr3:7557384-7557958 REVERSE
AT3G26950	11.4781	0.961007	-3.578193099	0.0005	0.000283	yes	DOWN		Thioredoxin superfamily protein	redox.glut: glutaredoxin family protein   chr3:23266249-23266934 FORWARD
AT5G18600	83.1441	6.90116	-3.590703105	0.0005	0.000283	yes	DOWN		Thioredoxin superfamily protein	redox.glut: glutaredoxin family protein   chr5:6183258-6183954 REVERSE

**Differential expression genes (DEGs) related to redox in KO plants under heat stress**

gene_id	KO_22	KO_28	log2(Folder_chang p_value)	Adjusted_F significant	Direction	Arabidopsis-s	Arabidopsis-defline	BINCODE	NAME	DESCRIPTION	WT22vsWT28
AT1G65970	31.7402	105.332	1.1730560672	0.00875	0.027598	yes	UP	TPX2	thioredoxin-dependent peroxidase	redox.perc Symbols: TPX2   TPX2 (thioredoxin-dependent peroxidase 2); antioxidant/ oxidoreductase   chr1:24557372-24558322 REVERSE	
AT2G48150	0.427425	1.36488	1.675030917	0.0059	0.019741	yes	UP	GPX4	glutathione peroxidase 4	redox.asco Symbols: ATGPX4 UP	
AT5G21105	43.6067	136.282	1.649397303	0.0005	0.000283	yes	UP		Plant L-ascorbate oxidase	redox.asco L-ascorbate oxidase UP	
AT1G04980	7.40193	21.7628	1.555890788	0.0005	0.000283	yes	UP	PDIL2-2	PDIL-like 2-2	redox.thio: Symbols: ATPDL2 UP	
AT1G03020	2.78171	8.17343	1.554969613	0.0005	0.000283	yes	UP		Thioredoxin superfamily protein	redox.glut: glutaredoxin family protein   chr1:698207-698515 REVERSE	
AT5G11930	1.30468	3.70381	1.505314093	0.0045	0.0021	yes	UP		Thioredoxin superfamily protein	redox.glut: glutaredoxin fami UP	
AT2G30540	3.15276	8.83747	1.487018062	0.0005	0.000283	yes	UP		Thioredoxin superfamily protein	redox.glut: glutaredoxin fami UP	
AT4G33040	4.0013	10.4655	1.387100535	0.0005	0.000283	yes	UP		Thioredoxin superfamily protein	redox.glut: glutaredoxin fami UP	
AT1G75270	29.2437	71.8721	1.297305983	0.0005	0.000283	yes	UP	DHAR2	dehydroascorbate reductase 2	redox.asco Symbols: DHAR2   UP	
AT1G06640	88.1124	197.867	1.167114054	0.0005	0.000283	yes	UP		2-oxoglutarate (2OG) and Fe(II)-dep	redox.asco 2-oxoglutarate-de UP	
AT5G21100	24.1367	52.7534	1.128035637	0.0005	0.000283	yes	UP		Plant L-ascorbate oxidase	redox.asco L-ascorbate oxidase, putative   chr5:7168184-7170928 FORWARD	
AT2G47880	1.74173	3.52415	1.016754334	0.0965	0.029992	yes	UP		Glutaredoxin family protein	redox.glut: glutaredoxin family protein   chr2:19605040-19605671 FORWARD	
AT5G06470	2.12006	1.01652	-1.060466495	0.05885	0.019596	yes	DOWN		Glutaredoxin family protein	redox.glut: glutaredoxin family protein   chr5:1974659-1975378 REVERSE	
AT3G54660	130.684	59.5303	-1.134386449	0.0005	0.000283	yes	DOWN	GR	glutathione reductase	redox.asco Symbols: GR, EME DOWN	
AT3G10520	131.874	59.2907	-1.153282419	0.0005	0.000283	yes	DOWN	Hb2	hemoglobin 2	redox.hem Symbols: AHb2, G DOWN	
AT4G31870	1.18903	0.50221	-1.243422455	0.056	0.018877	yes	DOWN	GPX7	glutathione peroxidase 7	redox.asco Symbols: ATGPX7 DOWN	
AT1G20630	51.1508	20.2137	-1.339423381	0.0005	0.000283	yes	DOWN	CAT1	catalase 1	redox.dism: Symbols: CAT1   ( DOWN	
AT4G15670	3.60123	1.37756	-1.386374586	0.0025	0.001238	yes	DOWN		Thioredoxin superfamily protein	redox.glut: glutaredoxin fami DOWN	
AT5G01420	1.56968	0.581011	-1.433833094	0.0075	0.0033	yes	DOWN		Glutaredoxin family protein	redox.glut: glutaredoxin fami DOWN	
AT1G77490	136.272	49.9551	-1.447785282	0.0005	0.000283	yes	DOWN	TAPX	thylakoidal ascorbate peroxidase	redox.asco Symbols: TAPX   T DOWN	
AT5G03870	6.02628	1.83546	-1.723814002	0.0005	0.000283	yes	DOWN		Glutaredoxin family protein	redox.glut: glutaredoxin family protein   chr5:1035658-1036967 REVERSE	
AT5G16400	138.653	41.6518	-1.735028083	0.0005	0.000283	yes	DOWN	TRXF2	thioredoxin F2	redox.thio: Symbols: TRXF2, F DOWN	
AT4G09010	377.774	101.165	-1.900813165	0.0005	0.000283	yes	DOWN	TL29	ascorbate peroxidase 4	redox.asco Symbols: APX4   F DOWN	
AT3G62950	9.63283	2.4652	-1.966255009	0.0005	0.000283	yes	DOWN		Thioredoxin superfamily protein	redox.glut: glutaredoxin fami DOWN	
AT2G5080	415.72	97.0324	-2.099073695	0.0005	0.000283	yes	DOWN	GPX1	glutathione peroxidase 1	redox.asco Symbols: ATGPX1 DOWN	
AT4G15700	11.4232	2.42698	-2.234732727	0.0005	0.000283	yes	DOWN		Thioredoxin superfamily protein	redox.glut: glutaredoxin fami DOWN	
AT4G15660	2.34088	0.359263	-2.703938713	0.0015	0.00078	yes	DOWN		Thioredoxin superfamily protein	redox.glut: glutaredoxin fami DOWN	
AT5G18600	59.0438	8.16378	-2.854476365	0.0005	0.000283	yes	DOWN		Thioredoxin superfamily protein	redox.glut: glutaredoxin fami DOWN	

**Differential expression genes (DEGs) related to redox under normal condition**

gene_id	WT_22	KO_22	log2(Folder_chang p_value)	Adjusted_F significant	Direction	Arabidopsis-s	Arabidopsis-defline	BINCODE	NAME	DESCRIPTION	WT22vsWT28	KO22vsKO28
AT5G11930	0.370564	1.30468	1.815901363	0.012	0.036055	yes	UP		Thioredoxin superfamily protein	redox.glut: glutaredoxin fami UP		
AT1G03020	6.76451	2.78171	-1.28201341	0.0001	0.000538	yes	DOWN		Thioredoxin superfamily protein	redox.glut: glutaredoxin family protein   chr1:6: UP		
AT4G15660	6.0685	2.34088	-1.374288978	0.0005	0.000283	yes	DOWN		Thioredoxin superfamily protein	redox.glut: glutaredoxin fami DOWN		DOWN
AT4G15690	28.6647	10.9363	-1.390150456	0.0005	0.000283	yes	DOWN		Thioredoxin superfamily protein	redox.glut: glutaredoxin fami DOWN		
AT3G21460	3.63412	1.3223	-1.45855653	0.0016	0.006419	yes	DOWN		Glutaredoxin family protein	redox.glut: electron carrier/ t DOWN		
AT4G04950	20.9993	0.465149	-5.496504502	0.0005	0.000283	yes	DOWN	GRXS17	thioredoxin family protein	redox.thio: thioredoxin family protein   chr4:2517666-2519977 REVERSE		

**Differential expression genes (DEGs) related to redox under heat stress**

gene_id	WT_28	KO_28	log2(Folder_chang p_value)	Adjusted_F significant	Direction	Arabidopsis-s	Arabidopsis-defline	BINCODE	NAME	DESCRIPTION	WT22vsWT28	KO22vsKO28
AT1G59730	1.32973	4.35806	1.712552721	0.00055	0.002512	yes	UP	TH7	thioredoxin H-type 7	redox.thio: Symbols: ATH7   / DOWN		
AT3G62950	0.961007	2.4652	1.359085851	0.0022	0.00847	yes	UP		Thioredoxin superfamily protein	redox.glut: glutaredoxin fami DOWN		DOWN
AT1G14730	12.8855	6.37059	-1.016249623	0.0005								

**Supplementary Table 5: List of primers used for q-PCR validation of RNA-seq data**

Gene Name/Description	TAIR ID	Primers used*	Primer sequence (5'-3')
DIHYDROFLAVONOL 4- REDUCTASE/DFR	AT5G42800	AT5G42800F AT5G42800R	AACGGATGTGACGGTGT TCCATTCACTGTCCGCTT
CYSTEINE-RICH RLK (RECEPTOR-LIKE PROTEIN KINASE) 14/CRK14	AT4G23220	AT4G23220F AT4G23220R	TGGGATCGATCAAAGTGG TCACATATTCTGGAGGCATGTAA
WALL ASSOCIATED KINASE 3/WAK3	AT1G21240	AT1G21240F AT1G21240R	CATACCGTTCAGAGGGTTGC AACCAGATGGACACTTACAATCG
GH3-LIKE DEFENSE GENE 1/GDG1, GRETCHEN HAGEN 3.12/GH3.12	AT5G13320	AT5G13320F AT5G13320R	TATCGGCCCGAACTATCACT GTTGTTCCATGGCATCATCTT
CELL WALL-ASSOCIATED KINASE 1/ WAK1	AT1G21250	AT1G21250F AT1G21250R	TGAGCTGCAAGCGTAAAGAG CAAGCAGAATGACCAAGAAGC
Auxin responsive GH3 family protein/GH3.3	AT2G23170	AT2G23170F AT2G23170R	CATCACAGAGTTCCTCACAAAGC GTCGGTCCATGTCTTCATCA
HEAT SHOCK TRANSCRIPTION FACTOR A2/HSFA2	AT2G26150	AT2G26150F AT2G26150R	TGGGATTCTCATAAGTTCTCAACA TGGATCAATCTTTCTGAATCCAT
WALL ASSOCIATED KINASE LIKE 8/WAKL8	AT1G16260	AT1G16260F AT1G16260R	GCCTGAGCCTGAACAGAACT CACATCAACACCCATTTGCT
Auxin-responsive GH3 family protein	AT1G48670	AT1G48670F AT1G48670R	ACACAAGCCCTGACCAAATTA AGCCCGCATAAAAGATGACA
SMALL AUXIN UPREGULATED RNA 3/SAUR3	AT4G34790	AT4G34790F AT4G34790R	AGCGGTTTACGTTGGAGAAC TGAACAAAGGATGGTTCAAGTATG
CYSTEINE-RICH RLK (RECEPTOR-LIKE PROTEIN KINASE) 7/CRK7	AT4G23150	AT4G23150F AT4G23150R	GCCATTGGTACACCACCAC ACATTTGAATTCCCCTTTTATCAG
Leucine-rich repeat protein kinase family protein	AT1G51890	AT1G51890F AT1G51890R	GCTTATTGTGGTCGCAAGACT GGACGTCCTCATCATACTGA
UBIQUITIN 10, UBIQ10	AT4G05320	AT4G05320F AT4G05320R	CCGTACGTTGGCTGATTACA GGCCAAAGTTCTGCCATCT

\* F and R indicate forward and reverse primer, respectively.

gene_id	WT_22	WT_28	log2(Folder_ch p_value	Adjusted_P_value
AT1G01060	1.15204	0.436232	-1.401023301	0.00005 0.000282578
AT1G01080	51.0749	34.3827	-0.570931633	0.00005 0.000282578
AT1G01100	227.807	183.394	-0.312865639	0.00255 0.00962703
AT1G01120	84.3854	38.9984	-1.113578476	0.00005 0.000282578
AT1G01190	5.32255	8.13214	0.611517455	0.0001 0.000537698
AT1G01210	13.8112	23.517	0.767865356	0.00005 0.000282578
AT1G01230	45.479	34.9652	-0.379280775	0.00185 0.00728767
AT1G01240	29.8353	11.1993	-1.413611723	0.00005 0.000282578
AT1G01360	11.9874	24.0631	1.005303734	0.00005 0.000282578
AT1G01430	84.2674	50.5544	-0.73713795	0.00005 0.000282578
AT1G01490	62.3317	82.5934	0.406060441	0.00005 0.000282578
AT1G01500	16.5351	9.75387	-0.761485121	0.00005 0.000282578
AT1G01510	21.6474	17.3962	-0.315421558	0.0027 0.0101192
AT1G01550	142.569	111.162	-0.358996622	0.00035 0.00167549
AT1G01560	0.391779	1.38617	1.822992227	0.00005 0.000282578
AT1G01580	2.24647	0.44079	-2.349496396	0.00005 0.000282578
AT1G01600	4.76085	2.94437	-0.693260198	0.00005 0.000282578
AT1G01620	441.475	250.671	-0.816536642	0.00005 0.000282578
AT1G01630	60.8063	43.5037	-0.483082698	0.00005 0.000282578
AT1G01670	0.8374	1.58582	0.921240203	0.0134 0.0395593
AT1G01680	0.24616	2.11043	3.099868724	0.00015 0.000779873
AT1G01690	3.84351	2.48566	-0.628795451	0.00135 0.00552942
AT1G01720	18.767	46.5014	1.309076105	0.00005 0.000282578
AT1G01790	61.137	40.2158	-0.604283341	0.00005 0.000282578
AT1G01860	13.388	8.82902	-0.60061524	0.00085 0.00368886
AT1G01910	43.3163	31.2897	-0.469222189	0.00035 0.00167549
AT1G01940	16.4063	25.2015	0.619259691	0.0005 0.00230701
AT1G01960	28.1566	23.2275	-0.277639251	0.01125 0.0341282
AT1G01970	23.2517	17.269	-0.429151657	0.00005 0.000282578
AT1G01990	14.0658	19.4693	0.469009405	0.0002 0.00101248
AT1G02050	4.76661	6.83208	0.519361278	0.002 0.00779418
AT1G02060	4.79869	6.65166	0.47107381	0.00075 0.0032996
AT1G02100	28.6359	47.0558	0.716547611	0.00005 0.000282578
AT1G02110	14.8037	10.6206	-0.479092533	0.00005 0.000282578
AT1G02140	128.558	160.095	0.316508861	0.0018 0.00711608
AT1G02150	66.6987	50.2062	-0.409793108	0.00005 0.000282578
AT1G02220	1.90294	7.71948	2.020273594	0.00005 0.000282578
AT1G02230	0.384722	2.64859	2.783336296	0.00005 0.000282578
AT1G02270	21.2719	12.6915	-0.74508631	0.00005 0.000282578
AT1G02280	67.0242	44.6223	-0.586917217	0.00005 0.000282578
AT1G02305	78.1667	103.059	0.398844462	0.0001 0.000537698
AT1G02330	24.9324	19.7615	-0.335329305	0.0053 0.0180196
AT1G02335	29.4586	20.8622	-0.497797565	0.00015 0.000779873
AT1G02340	8.70147	14.9126	0.777200761	0.00005 0.000282578
AT1G02390	0.261573	2.99818	3.518801464	0.00005 0.000282578
AT1G02450	0.320176	5.91116	4.206504197	0.0021 0.00813349

AT1G02560	230.019	170.991	-0.427832644	0.0001	0.000537698
AT1G02610	11.037	6.29989	-0.808949539	0.00005	0.000282578
AT1G02620	2.6418	0.55329	-2.255413496	0.00005	0.000282578
AT1G02640	17.1623	5.78744	-1.568245671	0.00005	0.000282578
AT1G02650	2.37587	0.986508	-1.268053243	0.00005	0.000282578
AT1G02660	11.8171	6.90581	-0.774993484	0.00005	0.000282578
AT1G02670	0.857648	2.04866	1.256223015	0.00005	0.000282578
AT1G02690	10.5879	7.50817	-0.495883253	0.00015	0.000779873
AT1G02700	0.566721	1.1071	0.966074973	0.0159	0.0456527
AT1G02730	16.581	6.59028	-1.331119351	0.00005	0.000282578
AT1G02770	0.40336	1.03805	1.363736008	0.00875	0.0275984
AT1G02780	535.424	441.009	-0.27987371	0.00675	0.0221564
AT1G02800	0.62777	1.52493	1.280435027	0.0003	0.00145851
AT1G02810	7.22318	9.31123	0.366337636	0.0063	0.0208862
AT1G02820	8.0021	0.857617	-3.221973249	0.00005	0.000282578
AT1G02850	20.7001	63.7537	1.622871335	0.00005	0.000282578
AT1G02920	52.7708	213.261	2.014808398	0.00005	0.000282578
AT1G02930	67.9443	213.477	1.651656212	0.00005	0.000282578
AT1G02950	13.6268	9.40107	-0.535549938	0.00065	0.00291062
AT1G03000	15.5806	13.0003	-0.261205876	0.0151	0.0437129
AT1G03040	27.2468	39.7754	0.545789637	0.00005	0.000282578
AT1G03055	3.91641	2.55461	-0.616428747	0.0169	0.0480113
AT1G03080	21.3803	27.7695	0.377219105	0.0002	0.00101248
AT1G03090	37.1604	17.1343	-1.116878778	0.00005	0.000282578
AT1G03110	8.83296	5.64275	-0.646498545	0.00005	0.000282578
AT1G03130	1605.3	246.635	-2.702393482	0.00005	0.000282578
AT1G03150	25.5163	19.2605	-0.40577399	0.0038	0.0135703
AT1G03230	38.0211	24.3582	-0.642392745	0.00005	0.000282578
AT1G03290	11.9425	17.6616	0.564511169	0.00005	0.000282578
AT1G03360	5.82331	9.32628	0.679462322	0.00005	0.000282578
AT1G03400	15.2031	19.8338	0.383595586	0.00205	0.00796423
AT1G03457	10.3755	6.17386	-0.748936189	0.00005	0.000282578
AT1G03470	7.04153	12.3866	0.814819396	0.00005	0.000282578
AT1G03475	123.229	101.994	-0.272857526	0.00645	0.0213006
AT1G03495	2.62561	8.78043	1.741638955	0.00005	0.000282578
AT1G03510	1.05857	1.81101	0.774677839	0.0099	0.0306393
AT1G03530	5.70136	7.16212	0.329080591	0.0093	0.029061
AT1G03550	11.5033	15.5517	0.435024501	0.0027	0.0101192
AT1G03590	15.5364	12.6971	-0.291153225	0.01005	0.0310377
AT1G03600	360.986	144.024	-1.325633646	0.00005	0.000282578
AT1G03610	18.7044	12.0132	-0.63875719	0.00005	0.000282578
AT1G03650	2.39233	4.49554	0.910078011	0.0017	0.00676327
AT1G03680	427.697	248.311	-0.784440914	0.00005	0.000282578
AT1G03740	32.0604	24.9137	-0.363853129	0.0004	0.00188925
AT1G03770	3.34165	6.94927	1.0563008	0.00055	0.00251246
AT1G03780	7.28233	3.52666	-1.046097624	0.00005	0.000282578
AT1G03820	5.64557	11.1207	0.978056448	0.00005	0.000282578



AT1G03860	48.1542	59.6094	0.307878217	0.003	0.0110887
AT1G03870	274.491	152.408	-0.848820214	0.00005	0.000282578
AT1G03900	79.3275	97.2599	0.294024025	0.0033	0.0120328
AT1G03930	20.7232	12.905	-0.683316654	0.00005	0.000282578
AT1G03940	3.02752	9.16845	1.598541365	0.00005	0.000282578
AT1G03950	20.9539	15.7884	-0.408353812	0.00275	0.0102843
AT1G03980	0.35586	0.85688	1.267783402	0.00765	0.024665
AT1G04010	3.83273	7.08886	0.887181268	0.00005	0.000282578
AT1G04020	4.9121	3.54424	-0.470863631	0.00185	0.00728767
AT1G04040	185.344	101.087	-0.874607937	0.00005	0.000282578
AT1G04090	0.797657	0.314014	-1.344939626	0.00185	0.00728767
AT1G04110	4.48369	1.53126	-1.549967269	0.00005	0.000282578
AT1G04120	17.306	25.8634	0.579639636	0.00005	0.000282578
AT1G04160	3.7549	2.82807	-0.408956657	0.00145	0.00588787
AT1G04180	0.398919	1.24504	1.642024349	0.00035	0.00167549
AT1G04200	16.3107	12.3606	-0.400069924	0.00025	0.00123846
AT1G04220	8.83542	13.9052	0.654253874	0.0087	0.0274711
AT1G04240	47.6272	16.542	-1.525652062	0.00005	0.000282578
AT1G04250	59.935	45.6797	-0.391845558	0.00025	0.00123846
AT1G04270	327.722	216.831	-0.595901493	0.00005	0.000282578
AT1G04280	41.0453	18.1894	-1.174119077	0.00005	0.000282578
AT1G04330	1.25873	3.02283	1.263930991	0.0038	0.0135703
AT1G04350	27.7336	36.6678	0.40287881	0.00005	0.000282578
AT1G04410	618.227	342.287	-0.852930163	0.00005	0.000282578
AT1G04420	75.7578	59.6862	-0.34399703	0.0006	0.00271108
AT1G04430	65.1513	43.4374	-0.584856215	0.00005	0.000282578
AT1G04510	29.6399	24.8262	-0.255677127	0.0144	0.0420158
AT1G04520	9.5312	6.38582	-0.577785977	0.00005	0.000282578
AT1G04530	42.2597	23.3071	-0.858513018	0.00005	0.000282578
AT1G04550	12.5703	16.6281	0.403604248	0.00175	0.00694124
AT1G04620	16.0028	30.4456	0.92790939	0.00005	0.000282578
AT1G04630	57.8013	44.9845	-0.361673953	0.00185	0.00728767
AT1G04650	2.11055	1.30758	-0.690719792	0.00065	0.00291062
AT1G04680	48.8987	25.6425	-0.931259187	0.00005	0.000282578
AT1G04710	13.1139	22.163	0.75705638	0.00005	0.000282578
AT1G04730	2.81942	1.91114	-0.560964941	0.00075	0.0032996
AT1G04760	4.3639	1.6042	-1.443764025	0.00875	0.0275984
AT1G04770	19.8056	32.2799	0.704727702	0.00005	0.000282578
AT1G04800	111.292	22.9052	-2.280602826	0.00005	0.000282578
AT1G04820	331.191	228.646	-0.534547788	0.00005	0.000282578
AT1G04840	0.738118	1.13303	0.618262683	0.0154	0.0444419
AT1G04970	21.9407	40.2151	0.874127753	0.00005	0.000282578
AT1G04980	7.04277	30.1027	2.095678019	0.00005	0.000282578
AT1G05000	26.4179	107.279	2.02178	0.00005	0.000282578
AT1G05010	484.249	380.153	-0.349168893	0.00105	0.00443869
AT1G05020	5.08281	1.34909	-1.913639707	0.00005	0.000282578
AT1G05030	14.1778	9.01022	-0.653999446	0.00005	0.000282578

AT1G05060	20.9221	28.478	0.444820164	0.0003	0.00145851
AT1G05065	5.09067	2.63366	-0.950786438	0.0027	0.0101192
AT1G05150	21.7536	16.0658	-0.43726135	0.00005	0.000282578
AT1G05170	6.2615	10.7287	0.77689506	0.00005	0.000282578
AT1G05190	516.075	320.188	-0.688661505	0.00005	0.000282578
AT1G05200	29.5793	22.0494	-0.423848513	0.00005	0.000282578
AT1G05260	66.823	50.4785	-0.404675713	0.0004	0.00188925
AT1G05300	15.0146	26.0936	0.797329958	0.00005	0.000282578
AT1G05310	5.74677	3.57757	-0.683771315	0.0002	0.00101248
AT1G05320	21.7173	17.437	-0.316692903	0.00305	0.0112447
AT1G05340	22.5018	31.7989	0.498936448	0.00025	0.00123846
AT1G05360	9.94764	12.3872	0.316423915	0.01115	0.0338768
AT1G05380	13.9077	17.3688	0.32061423	0.00495	0.0169989
AT1G05440	1.39126	0.76328	-0.866107763	0.00785	0.0252038
AT1G05470	6.7102	3.66019	-0.874437227	0.00005	0.000282578
AT1G05500	30.4559	23.5196	-0.372858214	0.00005	0.000282578
AT1G05530	1.08771	0.436196	-1.318245518	0.0016	0.00641937
AT1G05540	1.08225	2.60381	1.266590378	0.00005	0.000282578
AT1G05560	45.0894	106.639	1.241874939	0.00005	0.000282578
AT1G05570	25.4614	18.4968	-0.461036046	0.00005	0.000282578
AT1G05575	5.2131	8.13263	0.641580444	0.0058	0.0194564
AT1G05590	13.7949	10.1415	-0.443863946	0.00015	0.000779873
AT1G05600	4.16287	5.99982	0.527340713	0.0021	0.00813349
AT1G05630	7.9359	5.56079	-0.513103991	0.00005	0.000282578
AT1G05680	3.13466	4.93354	0.654314236	0.00025	0.00123846
AT1G05690	2.0568	3.51951	0.77497307	0.0001	0.000537698
AT1G05700	2.02554	1.19537	-0.760849334	0.0002	0.00101248
AT1G05710	5.45868	15.4698	1.502830514	0.00005	0.000282578
AT1G05750	1.45221	2.94048	1.017801585	0.00005	0.000282578
AT1G05783	0.929785	3.79063	2.027468587	0.0019	0.00745613
AT1G05805	48.0234	26.3575	-0.865524011	0.00005	0.000282578
AT1G05810	27.9279	19.5808	-0.512267387	0.00075	0.0032996
AT1G05835	20.2659	11.1963	-0.856032197	0.00985	0.0305115
AT1G05850	598.955	423.033	-0.501677407	0.00005	0.000282578
AT1G05870	16.534	20.7313	0.326374795	0.00585	0.0195962
AT1G05900	14.6026	10.2412	-0.511840493	0.0002	0.00101248
AT1G05940	24.9215	35.0728	0.492961706	0.00005	0.000282578
AT1G06000	20.3458	49.4942	1.282528464	0.00005	0.000282578
AT1G06040	188.767	110.281	-0.775422322	0.00005	0.000282578
AT1G06080	8.24531	4.64605	-0.827569056	0.00005	0.000282578
AT1G06090	7.00995	5.08913	-0.461985109	0.0008	0.00349363
AT1G06100	1.37377	0.459635	-1.57957992	0.00655	0.021582
AT1G06150	17.3506	13.8526	-0.324828772	0.003	0.0110887
AT1G06160	3.95693	7.98359	1.012656089	0.00005	0.000282578
AT1G06180	7.10621	11.1611	0.651326993	0.00015	0.000779873
AT1G06190	57.0516	41.9583	-0.443311121	0.00005	0.000282578
AT1G06270	1.84826	4.34386	1.232809888	0.00005	0.000282578

AT1G06360	44.5657	16.1519	-1.464229883	0.00005	0.000282578
AT1G06410	74.0867	52.0628	-0.50896167	0.00005	0.000282578
AT1G06430	52.2673	66.0341	0.337302589	0.00085	0.00368886
AT1G06460	284.237	192.379	-0.563143043	0.00005	0.000282578
AT1G06500	16.1159	23.9453	0.571257752	0.0039	0.0138733
AT1G06515	31.0499	22.1185	-0.489335072	0.01075	0.0328373
AT1G06520	1.22421	2.05075	0.74430057	0.00105	0.00443869
AT1G06550	25.2415	32.2302	0.352615494	0.00115	0.00480526
AT1G06570	49.304	30.3181	-0.701525352	0.00005	0.000282578
AT1G06590	3.85758	2.69056	-0.519789597	0.0009	0.00387377
AT1G06620	7.7434	13.3905	0.790170757	0.00005	0.000282578
AT1G06640	93.7606	190.464	1.02246463	0.00005	0.000282578
AT1G06680	4156.43	1202.5	-1.789308021	0.00005	0.000282578
AT1G06760	185.068	153.31	-0.271603658	0.00675	0.0221564
AT1G06770	3.64469	5.48666	0.590132066	0.00035	0.00167549
AT1G06800	10.7158	14.0362	0.38941285	0.00485	0.0167116
AT1G06830	14.1659	9.76727	-0.53639498	0.0161	0.0461351
AT1G06870	13.8323	17.3707	0.328614828	0.0055	0.0185914
AT1G06923	1.30018	2.56618	0.980911002	0.00895	0.028133
AT1G06950	67.6951	57.0298	-0.247335437	0.01395	0.0409307
AT1G06960	17.7099	7.89786	-1.165022366	0.00005	0.000282578
AT1G06980	11.9625	6.04044	-0.985793377	0.00005	0.000282578
AT1G07000	9.30266	14.2522	0.61546943	0.00005	0.000282578
AT1G07010	24.5912	33.7768	0.457890517	0.0002	0.00101248
AT1G07030	16.0008	21.1311	0.401223832	0.00055	0.00251246
AT1G07050	25.0266	67.5455	1.432397352	0.00005	0.000282578
AT1G07090	21.7267	35.9138	0.725069246	0.00005	0.000282578
AT1G07110	70.762	42.3646	-0.740115577	0.00005	0.000282578
AT1G07130	14.6298	19.951	0.447551013	0.00165	0.00658915
AT1G07135	9.89689	16.0311	0.695826273	0.00005	0.000282578
AT1G07180	17.4825	1.66866	-3.389149574	0.00005	0.000282578
AT1G07200	9.33645	12.9802	0.47536661	0.0002	0.00101248
AT1G07220	5.37948	8.97002	0.737644478	0.00035	0.00167549
AT1G07250	29.0577	19.5493	-0.571803564	0.00005	0.000282578
AT1G07320	387.998	216.43	-0.842148727	0.00005	0.000282578
AT1G07350	16.6539	81.5536	2.291888497	0.00005	0.000282578
AT1G07360	36.0127	26.3147	-0.45263682	0.0001	0.000537698
AT1G07370	15.2815	11.1776	-0.451175709	0.00135	0.00552942
AT1G07390	1.55883	3.01318	0.950823257	0.00005	0.000282578
AT1G07400	0.978064	9.33781	3.255083457	0.00005	0.000282578
AT1G07430	0.194614	0.688478	1.822795057	0.00265	0.00995735
AT1G07440	18.6715	63.5688	1.767481022	0.00005	0.000282578
AT1G07470	17.8697	13.3704	-0.418472787	0.00045	0.00210009
AT1G07480	17.7799	12.0118	-0.565794851	0.00005	0.000282578
AT1G07510	6.12178	7.60422	0.312849072	0.0102	0.0314297
AT1G07530	15.9813	25.7053	0.68568108	0.00005	0.000282578
AT1G07550	1.17971	0.654314	-0.850377211	0.0017	0.00676327

AT1G07620	1.45179	3.81664	1.394470328	0.00005	0.000282578
AT1G07640	10.988	18.0249	0.71406244	0.00005	0.000282578
AT1G07650	40.6329	27.9723	-0.538649451	0.00005	0.000282578
AT1G07670	19.2795	30.7086	0.671575105	0.00005	0.000282578
AT1G07700	47.5127	39.839	-0.254131758	0.01735	0.0490658
AT1G07705	15.056	11.6398	-0.371272264	0.001	0.00425239
AT1G07710	0.795786	0.336103	-1.243477098	0.00545	0.0184447
AT1G07770	273.496	223.014	-0.294385453	0.0109	0.0332243
AT1G07780	5.88223	12.4517	1.081907622	0.00005	0.000282578
AT1G07790	51.2771	36.1244	-0.505341046	0.00005	0.000282578
AT1G07820	75.3103	57.0429	-0.400799863	0.0003	0.00145851
AT1G07870	6.14727	9.49314	0.626939507	0.0006	0.00271108
AT1G07890	800.773	1606.53	1.004482685	0.00005	0.000282578
AT1G07900	0.274413	4.23995	3.949626518	0.0013	0.00534838
AT1G07910	7.4551	5.98785	-0.316189623	0.00625	0.0207474
AT1G07960	29.3043	39.319	0.424114254	0.0084	0.0266576
AT1G07980	11.5033	16.0268	0.478438605	0.00045	0.00210009
AT1G08000	7.25817	5.3426	-0.442063841	0.00515	0.0175936
AT1G08010	20.6051	15.5786	-0.403435877	0.0006	0.00271108
AT1G08050	2.56706	4.01035	0.643611136	0.00015	0.000779873
AT1G08070	0.667977	1.29822	0.958664554	0.00055	0.00251246
AT1G08110	95.0734	125.151	0.396556159	0.0001	0.000537698
AT1G08160	18.5713	12.3132	-0.592869065	0.00005	0.000282578
AT1G08165	3.11905	12.0397	1.948620859	0.00005	0.000282578
AT1G08200	143.111	97.6222	-0.551853397	0.00005	0.000282578
AT1G08230	10.0709	34.8811	1.79225292	0.00005	0.000282578
AT1G08280	6.23107	10.9323	0.811045126	0.00005	0.000282578
AT1G08290	0.455312	1.32702	1.543262726	0.00005	0.000282578
AT1G08310	10.0375	45.3924	2.177050781	0.00005	0.000282578
AT1G08320	10.614	7.3458	-0.530976932	0.00005	0.000282578
AT1G08380	4288.6	758.313	-2.4996414	0.00005	0.000282578
AT1G08390	10.0399	4.23135	-1.24655497	0.0003	0.00145851
AT1G08430	7.0807	14.0544	0.989057967	0.00005	0.000282578
AT1G08450	45.8791	69.9225	0.607919677	0.00005	0.000282578
AT1G08460	17.4902	23.3029	0.41396272	0.0003	0.00145851
AT1G08465	22.4621	12.2636	-0.873110266	0.00005	0.000282578
AT1G08520	130.181	71.2111	-0.870344858	0.00005	0.000282578
AT1G08540	76.9219	47.0588	-0.708929866	0.00005	0.000282578
AT1G08550	96.2804	43.6154	-1.142404515	0.00005	0.000282578
AT1G08560	29.2584	13.5602	-1.109472421	0.0005	0.00230701
AT1G08570	51.2629	63.546	0.30988622	0.003	0.0110887
AT1G08600	10.2672	12.7765	0.315449884	0.00525	0.0178784
AT1G08650	68.9956	181.759	1.397450536	0.00005	0.000282578
AT1G08660	26.8007	21.8727	-0.293139363	0.00665	0.0218627
AT1G08700	18.761	25.6718	0.452447727	0.00005	0.000282578
AT1G08710	7.32329	11.8626	0.695856417	0.00005	0.000282578
AT1G08750	11.5139	8.30749	-0.470892031	0.00055	0.00251246

AT1G08780	30.0663	22.8717	-0.394583737	0.00475	0.0164173
AT1G08810	18.2174	13.401	-0.442976411	0.0012	0.00498818
AT1G08820	25.8836	31.501	0.28335934	0.00865	0.0273357
AT1G08840	2.36366	1.17904	-1.003409862	0.0096	0.0298585
AT1G08880	91.3218	65.7055	-0.474945157	0.00005	0.000282578
AT1G08890	35.031	13.6695	-1.357671699	0.00005	0.000282578
AT1G08920	13.0305	20.3514	0.643235599	0.00005	0.000282578
AT1G08930	134.026	113.755	-0.23658294	0.0167	0.0475389
AT1G08940	8.71622	14.3796	0.722249029	0.00005	0.000282578
AT1G08970	45.2935	37.5907	-0.268928245	0.0138	0.0405566
AT1G08980	59.6194	45.3549	-0.394523433	0.0001	0.000537698
AT1G09010	35.9309	28.8954	-0.314385231	0.0024	0.0091296
AT1G09070	97.355	192.507	0.983583926	0.00005	0.000282578
AT1G09080	0.10329	1.82807	4.145548823	0.0001	0.000537698
AT1G09130	152.011	103.364	-0.55644192	0.00005	0.000282578
AT1G09140	61.2919	116.091	0.921487798	0.00005	0.000282578
AT1G09190	1.66873	2.89521	0.79491745	0.0008	0.00349363
AT1G09200	96.2631	55.2763	-0.800321834	0.00005	0.000282578
AT1G09220	0.70911	1.91126	1.430442703	0.00005	0.000282578
AT1G09240	20.6423	16.7115	-0.304762494	0.01165	0.0351616
AT1G09300	3.89799	7.60768	0.964726174	0.00005	0.000282578
AT1G09310	1820.09	1016.75	-0.8400448	0.00005	0.000282578
AT1G09340	478.939	253.942	-0.915342894	0.00005	0.000282578
AT1G09350	3.62468	0.490222	-2.886346499	0.00005	0.000282578
AT1G09390	16.8126	5.6079	-1.58401032	0.00005	0.000282578
AT1G09410	0.474269	1.30931	1.465029242	0.00005	0.000282578
AT1G09420	7.30291	9.74109	0.415611764	0.001	0.00425239
AT1G09430	76.5362	42.397	-0.85218009	0.00005	0.000282578
AT1G09450	2.24271	0.940456	-1.253810728	0.00005	0.000282578
AT1G09460	12.8624	9.23213	-0.478424417	0.00055	0.00251246
AT1G09470	4.6564	2.68373	-0.794975461	0.00725	0.0235462
AT1G09480	2.73602	5.14848	0.912067788	0.00005	0.000282578
AT1G09500	0.412616	14.8782	5.17225642	0.00005	0.000282578
AT1G09520	15.8405	20.2313	0.352971152	0.00655	0.021582
AT1G09530	18.0705	24.1622	0.419115395	0.0001	0.000537698
AT1G09570	49.9485	30.7256	-0.70100017	0.00005	0.000282578
AT1G09575	2.90491	1.65234	-0.813982888	0.00905	0.0284102
AT1G09580	14.553	10.5737	-0.460836286	0.00155	0.00624225
AT1G09600	0.531254	0.274039	-0.955020573	0.00795	0.0254668
AT1G09660	22.4263	30.2689	0.43264463	0.00005	0.000282578
AT1G09680	0.78827	1.84717	1.228554873	0.0001	0.000537698
AT1G09690	296.93	227.096	-0.386820567	0.0002	0.00101248
AT1G09710	4.1289	7.52905	0.866710363	0.00005	0.000282578
AT1G09750	233.783	78.3685	-1.576824237	0.00005	0.000282578
AT1G09780	138.502	95.3525	-0.53856414	0.0001	0.000537698
AT1G09810	6.46188	9.19091	0.508253752	0.0005	0.00230701
AT1G09812	1.35075	2.62939	0.960967461	0.00345	0.0125039

AT1G09850	16.9052	34.9039	1.045921161	0.00005	0.000282578
AT1G09890	1.71491	0.991785	-0.790033554	0.00205	0.00796423
AT1G09910	13.6736	8.7103	-0.650598813	0.00005	0.000282578
AT1G09920	44.8711	37.1349	-0.273010858	0.01645	0.0469712
AT1G09932	2.68179	4.52945	0.756139608	0.00065	0.00291062
AT1G09950	0.265811	1.33496	2.328323801	0.0005	0.00230701
AT1G09960	4.0103	6.58094	0.714583504	0.00005	0.000282578
AT1G10020	23.1142	16.8127	-0.459228001	0.00005	0.000282578
AT1G10030	16.8349	11.8153	-0.510798891	0.0018	0.00711608
AT1G10050	6.96876	8.52493	0.290786018	0.0129	0.0383166
AT1G10060	22.3335	11.7143	-0.930938614	0.00005	0.000282578
AT1G10140	20.0735	15.0915	-0.411555978	0.0017	0.00676327
AT1G10170	18.7721	23.9987	0.354366207	0.0026	0.00979559
AT1G10200	148.334	112.68	-0.396617851	0.00005	0.000282578
AT1G10240	5.06239	6.71144	0.406803688	0.0041	0.0144768
AT1G10300	0.315084	1.14441	1.860795608	0.00005	0.000282578
AT1G10310	24.3073	19.5714	-0.312642691	0.0101	0.0311631
AT1G10330	1.03748	1.8375	0.824660725	0.0043	0.0150809
AT1G10340	1.40944	6.44315	2.192644118	0.00005	0.000282578
AT1G10350	11.8715	8.40028	-0.498992913	0.00005	0.000282578
AT1G10470	41.8306	22.7222	-0.880456166	0.00005	0.000282578
AT1G10540	0.440677	1.15571	1.390985925	0.00015	0.000779873
AT1G10550	3.7577	1.30233	-1.52875483	0.00005	0.000282578
AT1G10600	20.7833	28.0556	0.432864021	0.00425	0.0149278
AT1G10610	5.37486	7.301	0.441866903	0.00705	0.0229904
AT1G10640	3.08013	5.22835	0.76336448	0.00005	0.000282578
AT1G10650	11.8689	18.0143	0.601956359	0.00005	0.000282578
AT1G10657	10.5792	6.2013	-0.770587945	0.00015	0.000779873
AT1G10660	22.9455	35.5662	0.632295596	0.00005	0.000282578
AT1G10670	171.503	124.311	-0.46427985	0.00005	0.000282578
AT1G10700	23.4321	16.3698	-0.51744956	0.00005	0.000282578
AT1G10740	20.9416	16.6067	-0.334606256	0.01305	0.0386862
AT1G10760	170.649	133.707	-0.351956963	0.00135	0.00552942
AT1G10830	26.6264	15.352	-0.794430767	0.00005	0.000282578
AT1G10850	11.0797	7.26388	-0.609106544	0.00025	0.00123846
AT1G10870	14.1427	9.06109	-0.642301059	0.00005	0.000282578
AT1G10890	38.0862	52.5856	0.465399435	0.00015	0.000779873
AT1G10900	22.017	13.7377	-0.680477418	0.00005	0.000282578
AT1G10920	3.18328	5.50221	0.789497142	0.00465	0.0161167
AT1G10960	203.41	423.084	1.056553521	0.00005	0.000282578
AT1G10970	3.48425	5.52018	0.663867168	0.0012	0.00498818
AT1G11000	7.04197	4.36545	-0.689848703	0.00005	0.000282578
AT1G11070	0.813204	0.220973	-1.87974721	0.0001	0.000537698
AT1G11100	1.08061	1.91209	0.823304493	0.00345	0.0125039
AT1G11112	1.36639	0.4732	-1.529847343	0.0159	0.0456527
AT1G11120	3.98777	2.39377	-0.736297662	0.00605	0.0201752
AT1G11130	9.44985	12.9191	0.451142235	0.0002	0.00101248

AT1G11190	4.39105	6.22825	0.504260893	0.0067	0.0220088
AT1G11220	2.82722	1.18607	-1.253194993	0.0002	0.00101248
AT1G11260	161.055	61.7157	-1.383843999	0.00005	0.000282578
AT1G11290	2.51988	3.7284	0.565201615	0.00025	0.00123846
AT1G11300	1.12244	4.28342	1.932124816	0.00005	0.000282578
AT1G11310	71.9355	101.502	0.496732336	0.00005	0.000282578
AT1G11330	9.4273	13.4457	0.512228322	0.00005	0.000282578
AT1G11360	32.9523	25.2841	-0.38214874	0.0007	0.00310863
AT1G11410	9.44818	12.5134	0.40536548	0.0091	0.0285401
AT1G11475	32.9026	53.9938	0.714592163	0.0132	0.0390601
AT1G11530	106.736	74.7123	-0.514629171	0.00005	0.000282578
AT1G11545	46.3293	20.4786	-1.177807794	0.00005	0.000282578
AT1G11570	3.19854	1.06665	-1.584326663	0.002	0.00779418
AT1G11600	15.765	7.18403	-1.13385989	0.00005	0.000282578
AT1G11670	24.8989	17.1373	-0.538942178	0.00005	0.000282578
AT1G11700	12.4525	35.4913	1.511030008	0.00005	0.000282578
AT1G11710	1.3843	2.61146	0.915699974	0.00005	0.000282578
AT1G11720	23.2921	17.4239	-0.418773139	0.00005	0.000282578
AT1G11740	1.07641	0.533609	-1.012372794	0.0019	0.00745613
AT1G11750	115.627	66.063	-0.807563929	0.00005	0.000282578
AT1G11790	16.5975	11.7204	-0.501944144	0.0001	0.000537698
AT1G11840	221.406	266.929	0.269761734	0.00855	0.0270622
AT1G11850	19.2006	7.07175	-1.441012216	0.00005	0.000282578
AT1G11860	636.765	417.171	-0.610122169	0.00005	0.000282578
AT1G11870	18.1477	14.0004	-0.374318669	0.0014	0.00571151
AT1G11890	42.9622	30.8798	-0.476404464	0.00005	0.000282578
AT1G11910	322.765	413.325	0.356792484	0.00085	0.00368886
AT1G11950	4.38275	3.16397	-0.470100467	0.0014	0.00571151
AT1G12030	0.944766	2.65569	1.491057799	0.00005	0.000282578
AT1G12040	14.3534	11.7087	-0.293811615	0.0093	0.029061
AT1G12080	168.817	82.8523	-1.026846539	0.00005	0.000282578
AT1G12090	1296.11	369.449	-1.810741035	0.00005	0.000282578
AT1G12120	44.0629	27.5791	-0.675989072	0.00005	0.000282578
AT1G12200	15.1152	50.5548	1.741848009	0.00005	0.000282578
AT1G12211	0.809461	2.42702	1.584152519	0.00005	0.000282578
AT1G12220	4.45468	6.59731	0.566556097	0.00005	0.000282578
AT1G12230	90.6239	50.5935	-0.840939532	0.00005	0.000282578
AT1G12280	2.99256	5.20472	0.798440379	0.0001	0.000537698
AT1G12410	155.037	100.111	-0.631012056	0.00005	0.000282578
AT1G12420	3.89936	5.82384	0.578733366	0.00035	0.00167549
AT1G12440	83.2081	65.5363	-0.344429752	0.00035	0.00167549
AT1G12450	7.07821	4.63643	-0.610370191	0.00015	0.000779873
AT1G12460	6.50346	5.13853	-0.339851771	0.0063	0.0208862
AT1G12500	39.2164	23.564	-0.734872647	0.00005	0.000282578
AT1G12520	34.2861	24.6536	-0.47582548	0.00005	0.000282578
AT1G12580	24.6301	18.4794	-0.41450457	0.00015	0.000779873
AT1G12620	2.75463	3.69175	0.422446309	0.0083	0.0263922

AT1G12680	11.2669	14.459	0.359877154	0.0019	0.00745613
AT1G12710	15.0379	10.4313	-0.527684148	0.00005	0.000282578
AT1G12740	6.837	3.02364	-1.177077045	0.00005	0.000282578
AT1G12750	20.0167	10.0289	-0.997040772	0.00005	0.000282578
AT1G12770	26.0831	20.3321	-0.359356114	0.0006	0.00271108
AT1G12780	41.2444	31.5229	-0.387797985	0.00025	0.00123846
AT1G12790	4.37241	1.94864	-1.165961103	0.00005	0.000282578
AT1G12800	104.004	54.4916	-0.932533258	0.00005	0.000282578
AT1G12805	0.318216	5.41633	4.089237359	0.0079	0.0253358
AT1G12820	23.7556	31.4161	0.40323645	0.0021	0.00813349
AT1G12840	67.6691	57.335	-0.239081104	0.01565	0.0450446
AT1G12845	20.6983	10.1174	-1.032673691	0.00005	0.000282578
AT1G12850	32.5496	23.6003	-0.463834615	0.00005	0.000282578
AT1G12860	31.9602	11.8342	-1.433314254	0.00005	0.000282578
AT1G12900	839.165	386.676	-1.117829284	0.00005	0.000282578
AT1G12940	0.055218	2.99469	5.761124223	0.0077	0.0247988
AT1G12950	4.52671	6.43556	0.507602808	0.0004	0.00188925
AT1G13040	2.35989	4.76532	1.013853483	0.00175	0.00694124
AT1G13050	3.15037	6.20728	0.978439947	0.004	0.0141788
AT1G13060	93.6365	75.0751	-0.318736518	0.0014	0.00571151
AT1G13090	22.8985	53.144	1.214653724	0.00005	0.000282578
AT1G13170	15.2135	9.41419	-0.692443221	0.00005	0.000282578
AT1G13250	16.3506	11.809	-0.469456777	0.0002	0.00101248
AT1G13260	61.8067	43.8864	-0.493989308	0.00005	0.000282578
AT1G13280	33.2317	22.2814	-0.576720213	0.00005	0.000282578
AT1G13300	34.8902	23.4021	-0.576183871	0.00005	0.000282578
AT1G13340	2.143	5.77864	1.431098145	0.00005	0.000282578
AT1G13360	115.797	81.5642	-0.505589906	0.0002	0.00101248
AT1G13410	0.87414	1.49871	0.777784988	0.0035	0.0126552
AT1G13470	0.297038	2.62462	3.143389149	0.00005	0.000282578
AT1G13500	0.785233	0.273219	-1.52306299	0.0163	0.0466222
AT1G13510	1.79917	0.876358	-1.037739261	0.0013	0.00534838
AT1G13520	0.710131	4.19925	2.563974588	0.00005	0.000282578
AT1G13530	2.24779	1.31657	-0.771723029	0.0079	0.0253358
AT1G13560	53.5394	40.2831	-0.410426261	0.00075	0.0032996
AT1G13590	3.99515	1.51835	-1.395745281	0.00025	0.00123846
AT1G13640	19.9196	35.5706	0.836496632	0.00005	0.000282578
AT1G13650	4.23994	2.10891	-1.007546321	0.00005	0.000282578
AT1G13670	22.9151	9.98935	-1.197835871	0.00005	0.000282578
AT1G13700	28.6241	9.28379	-1.624444538	0.00005	0.000282578
AT1G13710	7.20048	4.74829	-0.600685033	0.00015	0.000779873
AT1G13730	17.0983	13.2212	-0.370999766	0.00155	0.00624225
AT1G13750	11.496	32.455	1.497308789	0.00005	0.000282578
AT1G13790	2.10622	3.4067	0.693718769	0.0009	0.00387377
AT1G13810	5.62371	7.55881	0.426636925	0.0106	0.0324543
AT1G13820	47.2773	32.9134	-0.522472579	0.00005	0.000282578
AT1G13830	2.8442	7.52402	1.403480767	0.00005	0.000282578



AT1G13920	9.11369	4.58789	-0.990204497	0.00005	0.000282578
AT1G13930	2687.53	1543.75	-0.799841722	0.00005	0.000282578
AT1G13950	9.97144	22.4335	1.169780955	0.00005	0.000282578
AT1G13960	18.518	13.9975	-0.403759112	0.00165	0.00658915
AT1G13990	47.9801	80.5906	0.74817541	0.00005	0.000282578
AT1G14010	31.5829	47.2976	0.582623331	0.00835	0.0265257
AT1G14030	27.8691	16.9614	-0.716411158	0.00005	0.000282578
AT1G14060	9.10906	13.4822	0.565681843	0.00005	0.000282578
AT1G14120	17.6792	37.4625	1.083394186	0.00005	0.000282578
AT1G14130	7.4403	17.4542	1.230141535	0.00005	0.000282578
AT1G14170	19.3318	12.897	-0.583940458	0.00005	0.000282578
AT1G14180	4.42554	3.14009	-0.495047592	0.0049	0.016855
AT1G14220	6.56854	9.06492	0.464721552	0.0136	0.0400639
AT1G14230	19.4901	11.8702	-0.71539725	0.00005	0.000282578
AT1G14240	5.37478	3.41345	-0.654975084	0.0001	0.000537698
AT1G14250	16.1102	3.319	-2.27915387	0.00005	0.000282578
AT1G14270	42.7158	31.7802	-0.426641598	0.00015	0.000779873
AT1G14280	36.1598	13.7637	-1.393518346	0.00005	0.000282578
AT1G14290	28.7567	10.3669	-1.471913576	0.00005	0.000282578
AT1G14300	8.81231	12.7602	0.534058789	0.00005	0.000282578
AT1G14320	369.601	248.235	-0.574262117	0.00005	0.000282578
AT1G14345	96.4716	76.7099	-0.330691513	0.0017	0.00676327
AT1G14350	17.7811	10.1042	-0.815389476	0.0002	0.00101248
AT1G14360	13.3135	44.5404	1.742224622	0.00005	0.000282578
AT1G14370	7.85754	15.7676	1.004813467	0.00015	0.000779873
AT1G14380	27.8847	15.5484	-0.842707621	0.00005	0.000282578
AT1G14400	103.378	79.6176	-0.376769908	0.0027	0.0101192
AT1G14410	14.2545	10.5729	-0.431046293	0.001	0.00425239
AT1G14430	8.20687	4.82876	-0.76517934	0.00005	0.000282578
AT1G14440	14.4754	7.46748	-0.954909841	0.00005	0.000282578
AT1G14453	26.0429	14.9755	-0.798285936	0.0042	0.0147771
AT1G14460	6.36721	4.96227	-0.359661112	0.00365	0.0131214
AT1G14480	1.93387	2.8554	0.562202044	0.01025	0.0315592
AT1G14530	4.0144	7.41908	0.886055921	0.00005	0.000282578
AT1G14540	2.01235	4.38909	1.125040604	0.0001	0.000537698
AT1G14580	18.0705	10.4069	-0.796096042	0.00005	0.000282578
AT1G14590	6.89673	9.08926	0.398250355	0.00665	0.0218627
AT1G14620	14.9592	19.1218	0.354185312	0.0061	0.0203154
AT1G14640	2.54164	5.1171	1.009566727	0.00005	0.000282578
AT1G14660	3.15188	4.95658	0.653132407	0.00005	0.000282578
AT1G14670	69.1023	58.6283	-0.237136505	0.0176	0.0496468
AT1G14685	42.6091	30.5592	-0.479554803	0.00005	0.000282578
AT1G14687	2.54218	5.65332	1.153032177	0.00005	0.000282578
AT1G14760	1.22102	0.392355	-1.637855341	0.01455	0.0423789
AT1G14780	5.38815	7.69878	0.51483983	0.00375	0.0134211
AT1G14790	2.94639	8.09106	1.457380315	0.00005	0.000282578
AT1G14810	51.3412	41.0703	-0.322021531	0.00385	0.0137217

AT1G14840	17.1965	10.8198	-0.668441132	0.00285	0.010609
AT1G14870	71.604	119.134	0.734473119	0.00005	0.000282578
AT1G14880	0.602248	28.2052	5.549459659	0.00005	0.000282578
AT1G14960	31.753	90.2807	1.507524702	0.00005	0.000282578
AT1G14980	55.4159	111.929	1.014211996	0.00005	0.000282578
AT1G14990	8.40753	15.0719	0.842107371	0.00505	0.0172987
AT1G15040	17.4703	39.8533	1.189794807	0.00005	0.000282578
AT1G15060	17.3693	13.3342	-0.381408342	0.00055	0.00251246
AT1G15080	5.07189	3.29465	-0.622398245	0.00145	0.00588787
AT1G15100	20.5968	41.2366	1.001505174	0.00005	0.000282578
AT1G15110	8.51394	14.7852	0.796254931	0.00005	0.000282578
AT1G15140	71.7203	53.8061	-0.414611782	0.00015	0.000779873
AT1G15165	0.558395	1.25493	1.168248964	0.0149	0.0432411
AT1G15170	6.15784	9.11819	0.56632309	0.00005	0.000282578
AT1G15180	24.9116	18.6964	-0.414057179	0.0002	0.00101248
AT1G15190	0.326882	0.916094	1.486725704	0.00965	0.0299919
AT1G15250	17.6908	31.8982	0.850475726	0.01095	0.033356
AT1G15260	77.0727	45.0534	-0.774583948	0.00005	0.000282578
AT1G15270	278.805	232.751	-0.260469068	0.01355	0.0399444
AT1G15310	3.70356	6.88464	0.894468507	0.00005	0.000282578
AT1G15340	86.8964	107.486	0.306780447	0.00195	0.00762526
AT1G15350	46.4764	35.9619	-0.370029078	0.00115	0.00480526
AT1G15380	31.0473	60.7194	0.967689724	0.00005	0.000282578
AT1G15400	70.9285	90.4141	0.35018234	0.00525	0.0178784
AT1G15420	11.0583	13.8826	0.328148172	0.014	0.041048
AT1G15440	8.48365	10.7569	0.342505364	0.00665	0.0218627
AT1G15510	3.54276	8.06031	1.185961591	0.00005	0.000282578
AT1G15520	0.21959	1.06264	2.274768664	0.00005	0.000282578
AT1G15530	11.2671	8.21219	-0.456277321	0.0005	0.00230701
AT1G15570	8.20832	4.46911	-0.87709942	0.00005	0.000282578
AT1G15660	9.05181	4.63501	-0.965633851	0.00005	0.000282578
AT1G15670	19.4196	31.4364	0.694922529	0.00005	0.000282578
AT1G15730	42.9772	22.1587	-0.955698249	0.00005	0.000282578
AT1G15740	60.0309	35.9756	-0.738686549	0.0002	0.00101248
AT1G15760	1.15581	2.69088	1.219173798	0.00065	0.00291062
AT1G15790	1.47017	12.6721	3.107600733	0.00005	0.000282578
AT1G15800	6.94397	9.98156	0.523504594	0.00105	0.00443869
AT1G15820	4575.62	706.828	-2.694536146	0.00005	0.000282578
AT1G15830	6.7334	2.12106	-1.666549739	0.00005	0.000282578
AT1G15980	168.491	90.8092	-0.89176116	0.00005	0.000282578
AT1G16040	6.4465	8.77615	0.445072094	0.00335	0.0121887
AT1G16080	68.8897	90.6642	0.3962447	0.00005	0.000282578
AT1G16130	2.44812	3.33793	0.447279424	0.01175	0.0354077
AT1G16150	0.768656	1.20856	0.652879107	0.0111	0.0337467
AT1G16160	0.416666	0.803435	0.94728993	0.00535	0.0181609
AT1G16170	21.6763	13.6199	-0.670402408	0.00005	0.000282578
AT1G16240	63.6105	52.2409	-0.284085175	0.0058	0.0194564

AT1G16260	8.37099	24.979	1.577245563	0.00005	0.000282578
AT1G16320	51.1871	73.8785	0.529374302	0.00005	0.000282578
AT1G16330	2.83168	1.45331	-0.962315768	0.0001	0.000537698
AT1G16370	8.55524	4.95681	-0.787396367	0.00005	0.000282578
AT1G16400	13.6791	21.274	0.637118006	0.00005	0.000282578
AT1G16410	30.3461	36.4148	0.263013804	0.01765	0.0497604
AT1G16460	44.8876	65.6953	0.549473198	0.00005	0.000282578
AT1G16500	4.96214	6.7613	0.446338222	0.0111	0.0337467
AT1G16630	4.26587	1.91867	-1.152733403	0.00005	0.000282578
AT1G16670	9.03629	11.2634	0.317839912	0.01255	0.0374311
AT1G16680	10.5272	12.781	0.279878956	0.0125	0.0373138
AT1G16690	6.45693	3.70569	-0.801106189	0.00005	0.000282578
AT1G16700	53.6882	41.9932	-0.354449307	0.0006	0.00271108
AT1G16720	174.846	68.4609	-1.352732628	0.00005	0.000282578
AT1G16860	31.2002	22.8886	-0.446926055	0.00005	0.000282578
AT1G16920	34.2919	23.6693	-0.534850801	0.00005	0.000282578
AT1G17020	2.71153	17.7252	2.708622869	0.00005	0.000282578
AT1G17060	5.64016	2.75315	-1.034652875	0.00005	0.000282578
AT1G17090	4.42841	9.00572	1.024052824	0.00005	0.000282578
AT1G17100	57.1298	176.345	1.626085286	0.00005	0.000282578
AT1G17140	43.2989	27.6098	-0.649149937	0.00015	0.000779873
AT1G17147	8.98345	5.96952	-0.589654672	0.0026	0.00979559
AT1G17180	14.952	8.67441	-0.785500935	0.00005	0.000282578
AT1G17190	57.636	40.021	-0.526212998	0.00005	0.000282578
AT1G17200	121.919	79.2184	-0.622015507	0.00035	0.00167549
AT1G17220	135.48	102.796	-0.398295764	0.00005	0.000282578
AT1G17240	0.522288	0.886696	0.76359401	0.0154	0.0444419
AT1G17250	3.24231	4.40145	0.440956844	0.00585	0.0195962
AT1G17280	36.1709	44.4456	0.297211108	0.0056	0.0188774
AT1G17285	0.990876	2.39508	1.273297413	0.01585	0.0455283
AT1G17290	83.3654	63.6611	-0.389036646	0.00005	0.000282578
AT1G17330	14.8506	11.7445	-0.338535926	0.01715	0.0486055
AT1G17345	1.9134	0.635746	-1.589616119	0.00025	0.00123846
AT1G17350	10.5425	8.0592	-0.38750848	0.01765	0.0497604
AT1G17380	0.574374	1.25705	1.129979685	0.0019	0.00745613
AT1G17420	3.77188	10.0656	1.416077489	0.00005	0.000282578
AT1G17460	3.04232	11.2544	1.887245332	0.00005	0.000282578
AT1G17530	17.8961	24.8448	0.473298705	0.00585	0.0195962
AT1G17550	15.6197	25.052	0.681559039	0.00005	0.000282578
AT1G17590	3.08484	6.00908	0.961948465	0.00005	0.000282578
AT1G17610	0.479441	1.08296	1.175554764	0.00015	0.000779873
AT1G17650	33.0553	16.0646	-1.040996549	0.00005	0.000282578
AT1G17680	11.0869	13.6072	0.295514198	0.0067	0.0220088
AT1G17700	9.41134	3.63637	-1.37190115	0.00005	0.000282578
AT1G17710	17.6783	203.771	3.526897294	0.00005	0.000282578
AT1G17730	39.4189	30.7234	-0.359549637	0.00225	0.00863481
AT1G17745	20.5969	95.1667	2.208029629	0.00005	0.000282578

AT1G17760	11.2179	15.9268	0.505653803	0.00005	0.000282578
AT1G17820	7.02698	9.63715	0.455701768	0.0002	0.00101248
AT1G17830	4.30695	12.5967	1.548307355	0.00005	0.000282578
AT1G17840	69.2896	45.5655	-0.604696929	0.00005	0.000282578
AT1G17860	143.318	218.223	0.606583349	0.00005	0.000282578
AT1G17880	254.533	181.601	-0.487080566	0.00005	0.000282578
AT1G17890	33.7601	23.7278	-0.508740835	0.00005	0.000282578
AT1G17920	3.15208	1.18882	-1.406773859	0.00005	0.000282578
AT1G17940	14.3533	10.3143	-0.476736555	0.00015	0.000779873
AT1G17970	14.8676	7.4595	-0.995020942	0.00005	0.000282578
AT1G17990	2.14103	0.89447	-1.25920001	0.00015	0.000779873
AT1G18060	105.911	43.5144	-1.283287628	0.00005	0.000282578
AT1G18080	261.39	175.134	-0.577744757	0.00005	0.000282578
AT1G18140	3.77629	6.56206	0.797179225	0.00005	0.000282578
AT1G18150	43.5782	28.2793	-0.623860198	0.00005	0.000282578
AT1G18170	33.2758	41.31	0.312017709	0.0049	0.016855
AT1G18250	17.2417	10.4101	-0.727918101	0.00005	0.000282578
AT1G18260	26.7575	33.7377	0.334418295	0.0016	0.00641937
AT1G18265	7.78365	2.47241	-1.654528834	0.00005	0.000282578
AT1G18270	30.7836	19.0591	-0.691681963	0.00005	0.000282578
AT1G18300	4.69492	8.96067	0.932506033	0.00005	0.000282578
AT1G18330	26.3552	16.0918	-0.711761928	0.00005	0.000282578
AT1G18335	7.46383	5.60764	-0.412522393	0.0122	0.0365526
AT1G18340	8.83652	6.42079	-0.460727505	0.0046	0.01597
AT1G18360	22.0546	8.35432	-1.400485285	0.00005	0.000282578
AT1G18370	9.14091	3.41591	-1.420067832	0.00005	0.000282578
AT1G18400	11.4689	5.47131	-1.067768822	0.00005	0.000282578
AT1G18440	14.3871	9.14634	-0.653509363	0.00005	0.000282578
AT1G18460	22.4757	14.1523	-0.667329513	0.00005	0.000282578
AT1G18500	54.0465	45.4195	-0.250889369	0.01275	0.0379464
AT1G18540	145.921	95.2032	-0.61610555	0.00005	0.000282578
AT1G18550	4.5887	3.38891	-0.437264166	0.0036	0.0129656
AT1G18560	3.14837	2.39444	-0.394916813	0.01725	0.0488461
AT1G18570	10.471	21.9992	1.071051832	0.00005	0.000282578
AT1G18590	13.7366	26.4772	0.946725602	0.00005	0.000282578
AT1G18600	14.381	10.0919	-0.510966183	0.00005	0.000282578
AT1G18620	29.5348	10.3085	-1.518581423	0.00005	0.000282578
AT1G18640	21.8483	16.1541	-0.435620654	0.00165	0.00658915
AT1G18650	14.9127	9.80627	-0.604765097	0.01335	0.0394316
AT1G18670	7.17938	5.3859	-0.414671817	0.00105	0.00443869
AT1G18720	61.5254	88.1351	0.518534558	0.0006	0.00271108
AT1G18750	2.69728	4.05045	0.586576906	0.00475	0.0164173
AT1G18810	11.344	3.02361	-1.907585467	0.00005	0.000282578
AT1G18835	3.81928	1.47283	-1.374709773	0.00165	0.00658915
AT1G18840	19.0663	12.2177	-0.642052181	0.00005	0.000282578
AT1G18860	1.99898	1.19834	-0.738226742	0.00325	0.0118728
AT1G18870	13.9126	23.3964	0.749894502	0.00005	0.000282578

AT1G18900	5.4511	7.79024	0.515120389	0.0006	0.00271108
AT1G18940	2.3079	1.12532	-1.036245404	0.00015	0.000779873
AT1G19000	157.236	196.674	0.32287468	0.00145	0.00588787
AT1G19020	16.3564	26.8041	0.712598445	0.00005	0.000282578
AT1G19050	9.59061	2.71072	-1.822946479	0.00005	0.000282578
AT1G19110	34.2811	25.8146	-0.409226159	0.00005	0.000282578
AT1G19140	12.0244	16.3929	0.447106191	0.0003	0.00145851
AT1G19200	13.0278	25.772	0.984211023	0.00005	0.000282578
AT1G19220	7.75799	6.08107	-0.35135772	0.00185	0.00728767
AT1G19250	0.164759	3.38694	4.36155325	0.00005	0.000282578
AT1G19290	3.31202	4.74722	0.519371525	0.0002	0.00101248
AT1G19300	9.65151	15.8691	0.717393732	0.00005	0.000282578
AT1G19310	25.7103	19.856	-0.372771424	0.0031	0.0114009
AT1G19320	2.07584	0.832641	-1.317928744	0.005	0.0171523
AT1G19350	145.847	110.185	-0.404527875	0.0011	0.00462106
AT1G19370	17.51	14.5899	-0.263209089	0.01675	0.0476547
AT1G19380	19.1022	15.0997	-0.339218917	0.01625	0.0464987
AT1G19396	4.53731	10.5999	1.224141518	0.0165	0.0470756
AT1G19400	41.553	27.2978	-0.606167954	0.00005	0.000282578
AT1G19440	13.7545	6.71124	-1.035252441	0.00005	0.000282578
AT1G19450	35.6167	14.8886	-1.258345751	0.00005	0.000282578
AT1G19480	6.5957	5.12439	-0.364145502	0.01435	0.0418949
AT1G19510	0.992467	2.27213	1.194954343	0.01685	0.0478992
AT1G19530	32.5812	7.15154	-2.187713893	0.00005	0.000282578
AT1G19540	7.02456	3.9343	-0.836300891	0.00065	0.00291062
AT1G19570	266.168	369.731	0.474138877	0.00005	0.000282578
AT1G19610	4.39475	29.0506	2.724714957	0.00005	0.000282578
AT1G19630	0.759333	1.36317	0.844160878	0.0006	0.00271108
AT1G19650	12.2394	9.36615	-0.386004788	0.0011	0.00462106
AT1G19670	27.0619	49.1225	0.860120852	0.00005	0.000282578
AT1G19715	36.5457	28.3139	-0.368191185	0.0017	0.00676327
AT1G19720	33.1412	24.719	-0.423005461	0.00005	0.000282578
AT1G19740	130.537	73.7051	-0.824622434	0.00005	0.000282578
AT1G19770	103.323	84.5316	-0.289598776	0.00345	0.0125039
AT1G19835	32.3197	24.647	-0.391001752	0.00015	0.000779873
AT1G19870	32.3495	38.5134	0.251617077	0.01185	0.0356661
AT1G19880	24.6109	19.6975	-0.321284882	0.0027	0.0101192
AT1G19900	7.38401	3.16883	-1.220454242	0.00005	0.000282578
AT1G19940	1.96734	0.770457	-1.352459963	0.00005	0.000282578
AT1G19950	7.43264	5.15594	-0.527639258	0.00105	0.00443869
AT1G19960	5.05267	35.2764	2.803585477	0.00005	0.000282578
AT1G19970	4.73162	2.96015	-0.676663931	0.00225	0.00863481
AT1G19990	10.2365	6.69248	-0.613109695	0.0002	0.00101248
AT1G20010	274.276	117.336	-1.224982671	0.00005	0.000282578
AT1G20020	972.605	529.108	-0.878291777	0.00005	0.000282578
AT1G20030	18.3297	5.96423	-1.619775375	0.00005	0.000282578
AT1G20070	15.9149	8.3508	-0.930391774	0.0023	0.00880163

AT1G20090	53.39	38.1564	-0.484644487	0.00005	0.000282578
AT1G20100	30.1823	38.5092	0.351500404	0.001	0.00425239
AT1G20120	0.487617	1.66528	1.771944443	0.00005	0.000282578
AT1G20140	5.472	7.54595	0.463634311	0.004	0.0141788
AT1G20160	5.15067	7.09434	0.461908363	0.00055	0.00251246
AT1G20190	51.2816	8.4135	-2.607663286	0.00005	0.000282578
AT1G20200	39.1677	32.7248	-0.259280038	0.01105	0.0336205
AT1G20225	44.5368	63.8348	0.519345231	0.00005	0.000282578
AT1G20230	1.21059	2.05716	0.764943668	0.0005	0.00230701
AT1G20260	163.727	112.626	-0.539752339	0.00005	0.000282578
AT1G20330	98.2782	51.3904	-0.935372553	0.00005	0.000282578
AT1G20340	2598.59	1231.73	-1.07704298	0.00005	0.000282578
AT1G20350	0.682755	8.35432	3.613082525	0.00005	0.000282578
AT1G20380	2.77749	3.62234	0.383140249	0.01555	0.0447988
AT1G20440	377.823	184.732	-1.032276731	0.00005	0.000282578
AT1G20470	3.11706	9.46552	1.602495839	0.00085	0.00368886
AT1G20530	0.414687	0.849217	1.034110431	0.0038	0.0135703
AT1G20550	2.83232	1.53508	-0.88367043	0.00345	0.0125039
AT1G20610	6.61245	3.78838	-0.803603858	0.00005	0.000282578
AT1G20630	67.3781	22.4389	-1.586277793	0.00005	0.000282578
AT1G20650	20.7162	12.5639	-0.721475027	0.00005	0.000282578
AT1G20670	13.4745	10.2928	-0.388596241	0.001	0.00425239
AT1G20690	1.42626	3.21091	1.170745226	0.00005	0.000282578
AT1G20693	384.144	210.81	-0.865703916	0.00005	0.000282578
AT1G20720	1.79929	1.00179	-0.844847616	0.00005	0.000282578
AT1G20770	20.3853	15.8482	-0.363210197	0.0038	0.0135703
AT1G20810	55.2306	31.4068	-0.814390844	0.00005	0.000282578
AT1G20823	9.2185	19.8404	1.105837187	0.00005	0.000282578
AT1G20840	50.1977	39.8183	-0.334189635	0.00245	0.0092976
AT1G20860	1.25765	4.17662	1.731605409	0.00005	0.000282578
AT1G20880	11.0443	16.1083	0.544502264	0.00005	0.000282578
AT1G20890	8.64677	12.3732	0.516985443	0.00135	0.00552942
AT1G20920	17.7598	22.5527	0.344684828	0.00125	0.00516712
AT1G20970	24.3222	16.7898	-0.534688685	0.00005	0.000282578
AT1G21000	28.4358	59.1936	1.057732807	0.00005	0.000282578
AT1G21050	29.23	37.7801	0.370176691	0.0017	0.00676327
AT1G21060	21.2719	10.4778	-1.021613071	0.00005	0.000282578
AT1G21065	119.52	69.6831	-0.778371341	0.00005	0.000282578
AT1G21070	6.61428	3.87312	-0.772087919	0.00005	0.000282578
AT1G21100	55.0663	75.3852	0.45311164	0.00005	0.000282578
AT1G21110	20.3885	32.1211	0.65576566	0.00005	0.000282578
AT1G21120	2.3273	9.66105	2.053522802	0.00005	0.000282578
AT1G21130	368.596	188.427	-0.968034709	0.00005	0.000282578
AT1G21150	2.8732	1.88548	-0.607726573	0.0109	0.0332243
AT1G21190	29.0533	44.9097	0.628325044	0.00005	0.000282578
AT1G21240	0.0707844	2.99056	5.400840409	0.00075	0.0032996
AT1G21250	2.0021	37.8478	4.240623502	0.00005	0.000282578

AT1G21270	21.0234	25.9231	0.302242245	0.0041	0.0144768
AT1G21310	860.752	1418.75	0.720950859	0.00005	0.000282578
AT1G21320	1.29885	4.20964	1.696462034	0.00005	0.000282578
AT1G21350	37.7063	46.6383	0.306709612	0.00545	0.0184447
AT1G21380	40.7094	30.1632	-0.432572467	0.0002	0.00101248
AT1G21390	9.08452	6.69316	-0.440722786	0.00435	0.0152293
AT1G21410	6.77493	13.0245	0.942950044	0.00005	0.000282578
AT1G21500	304.406	51.1572	-2.572987587	0.00005	0.000282578
AT1G21510	1.23749	0.56068	-1.142167354	0.0039	0.0138733
AT1G21520	3.45964	36.4343	3.396603445	0.00005	0.000282578
AT1G21540	6.92517	1.36106	-2.34711882	0.00005	0.000282578
AT1G21560	15.6315	11.5183	-0.440528423	0.00025	0.00123846
AT1G21590	27.1172	21.0237	-0.367191626	0.00025	0.00123846
AT1G21640	43.6716	29.0148	-0.589906404	0.00005	0.000282578
AT1G21650	5.65528	10.2898	0.863544581	0.00315	0.0115529
AT1G21660	31.6211	25.331	-0.319983524	0.0019	0.00745613
AT1G21670	47.963	56.7414	0.242479848	0.0165	0.0470756
AT1G21680	88.6592	161.687	0.866861438	0.00005	0.000282578
AT1G21690	16.4626	12.904	-0.35137386	0.00585	0.0195962
AT1G21720	74.439	59.4081	-0.325399026	0.00195	0.00762526
AT1G21730	15.8233	9.80197	-0.690906874	0.00005	0.000282578
AT1G21760	25.6929	37.7226	0.554059377	0.001	0.00425239
AT1G21790	5.87566	4.32336	-0.442597943	0.01155	0.0349062
AT1G21810	2.21131	0.737952	-1.583302404	0.00005	0.000282578
AT1G21880	26.2232	19.8223	-0.403719378	0.00065	0.00291062
AT1G21910	10.0356	6.98563	-0.522664738	0.0002	0.00101248
AT1G21920	35.4255	26.1082	-0.44028522	0.00005	0.000282578
AT1G21930	32.8433	21.242	-0.628679485	0.00005	0.000282578
AT1G22040	7.98456	11.2334	0.492509839	0.0001	0.000537698
AT1G22060	15.2575	11.8248	-0.367702808	0.0003	0.00145851
AT1G22070	34.741	45.4895	0.388894295	0.00015	0.000779873
AT1G22140	23.6499	30.0302	0.34458	0.014	0.041048
AT1G22150	0.805588	5.5407	2.781954156	0.00005	0.000282578
AT1G22160	20.1643	41.0121	1.024246294	0.00005	0.000282578
AT1G22170	11.3042	19.1141	0.757778376	0.00005	0.000282578
AT1G22190	15.7673	42.9122	1.444452233	0.00005	0.000282578
AT1G22220	4.1634	17.9511	2.108238174	0.00005	0.000282578
AT1G22250	16.2014	7.15566	-1.17896174	0.00005	0.000282578
AT1G22275	0.827971	0.437714	-0.919591709	0.0048	0.0165649
AT1G22300	214.776	167.544	-0.358292767	0.00055	0.00251246
AT1G22330	23.8306	8.58933	-1.472197771	0.00005	0.000282578
AT1G22370	8.66721	20.3005	1.227875696	0.00005	0.000282578
AT1G22380	0.969606	2.44496	1.334340331	0.00005	0.000282578
AT1G22410	113.098	158.743	0.489119558	0.00005	0.000282578
AT1G22440	17.2215	10.7448	-0.680572178	0.00005	0.000282578
AT1G22450	66.2989	48.6785	-0.445700221	0.0001	0.000537698
AT1G22490	2.58531	0.924173	-1.484102436	0.00005	0.000282578

AT1G22530	122.509	79.0948	-0.631232985	0.00005	0.000282578
AT1G22540	10.6737	7.76068	-0.459805394	0.0002	0.00101248
AT1G22550	23.5286	14.1959	-0.728941163	0.00005	0.000282578
AT1G22570	28.0428	9.57379	-1.55046834	0.00005	0.000282578
AT1G22590	26.3812	20.219	-0.383798544	0.0048	0.0165649
AT1G22620	20.0183	16.44	-0.284109163	0.00415	0.0146251
AT1G22630	121.644	94.5131	-0.364078949	0.00075	0.0032996
AT1G22650	7.16101	5.52501	-0.374186006	0.00845	0.0267941
AT1G22660	9.57131	7.5612	-0.340101181	0.01385	0.0406792
AT1G22690	468.764	266.032	-0.817261986	0.00005	0.000282578
AT1G22700	90.8973	51.0488	-0.832360393	0.00005	0.000282578
AT1G22710	98.5605	53.7241	-0.875440165	0.00005	0.000282578
AT1G22740	37.4414	14.0944	-1.409512317	0.00005	0.000282578
AT1G22770	69.4156	52.1947	-0.411356602	0.00005	0.000282578
AT1G22780	169.949	120.102	-0.500841697	0.00005	0.000282578
AT1G22830	1.47018	2.3531	0.678569831	0.0003	0.00145851
AT1G22890	53.7503	29.4336	-0.868808799	0.00005	0.000282578
AT1G22900	8.36195	6.12201	-0.449834015	0.01485	0.0431154
AT1G22910	23.3735	14.3465	-0.704174966	0.00005	0.000282578
AT1G22930	53.7947	78.4054	0.543488979	0.00005	0.000282578
AT1G22960	2.70338	3.63216	0.426063438	0.0067	0.0220088
AT1G22990	2.73139	13.4118	2.295795646	0.00005	0.000282578
AT1G23000	3.916	2.70127	-0.535742916	0.0054	0.0183008
AT1G23020	33.1244	24.2092	-0.452338917	0.00005	0.000282578
AT1G23030	29.9562	20.5513	-0.54362497	0.00005	0.000282578
AT1G23040	14.2011	30.9549	1.124165115	0.00005	0.000282578
AT1G23050	15.6707	20.9593	0.419520909	0.0033	0.0120328
AT1G23080	103.461	68.6488	-0.591780634	0.00005	0.000282578
AT1G23110	13.9452	47.5407	1.769394521	0.00005	0.000282578
AT1G23120	4.79025	9.59577	1.002297627	0.00005	0.000282578
AT1G23130	771.87	1079.51	0.483946816	0.00005	0.000282578
AT1G23140	19.0614	46.9318	1.299911709	0.00005	0.000282578
AT1G23190	57.6653	44.8199	-0.363564011	0.00015	0.000779873
AT1G23200	2.82359	0.759942	-1.893569398	0.00005	0.000282578
AT1G23205	9.6286	14.9039	0.630291949	0.0001	0.000537698
AT1G23260	43.1136	34.7007	-0.313178267	0.00585	0.0195962
AT1G23280	18.5787	23.4447	0.335612262	0.0051	0.0174432
AT1G23310	1039.2	801.168	-0.375296632	0.002	0.00779418
AT1G23360	22.6934	12.6597	-0.842029557	0.00005	0.000282578
AT1G23390	173.022	67.0313	-1.368048672	0.00005	0.000282578
AT1G23400	33.0139	25.5818	-0.367955798	0.00075	0.0032996
AT1G23460	7.59349	5.91658	-0.359999621	0.0147	0.0427366
AT1G23480	22.5012	9.52959	-1.239515893	0.00005	0.000282578
AT1G23490	202.814	138.636	-0.548855308	0.00005	0.000282578
AT1G23550	1.736	4.04412	1.220058859	0.0001	0.000537698
AT1G23710	11.7396	26.7536	1.188349783	0.00005	0.000282578
AT1G23730	4.35666	14.377	1.722468232	0.00105	0.00443869



AT1G23760	4.329	2.27437	-0.928566826	0.00005	0.000282578
AT1G23780	19.8898	25.4024	0.352936039	0.00105	0.00443869
AT1G23790	3.97126	1.58745	-1.322885666	0.00005	0.000282578
AT1G23800	12.6232	9.41978	-0.422312411	0.00175	0.00694124
AT1G23840	1.59299	5.63038	1.821495084	0.00005	0.000282578
AT1G23850	3.47369	8.18381	1.236303641	0.00005	0.000282578
AT1G23870	41.3561	24.2313	-0.771228335	0.00005	0.000282578
AT1G23950	22.354	33.2149	0.571297562	0.00005	0.000282578
AT1G23970	5.25321	12.8438	1.289800942	0.00005	0.000282578
AT1G24020	71.2421	114.197	0.680722803	0.00005	0.000282578
AT1G24050	45.0591	35.4336	-0.346700449	0.0011	0.00462106
AT1G24070	1.42355	0.804593	-0.823162075	0.0019	0.00745613
AT1G24100	34.4381	77.7994	1.17575348	0.00005	0.000282578
AT1G24120	17.9188	11.6505	-0.621082153	0.00005	0.000282578
AT1G24130	1.44517	2.79184	0.949977052	0.00035	0.00167549
AT1G24140	0.366502	2.87973	2.974040576	0.00005	0.000282578
AT1G24145	1.51803	8.94036	2.558132623	0.00005	0.000282578
AT1G24147	4.72377	16.6202	1.814927116	0.00005	0.000282578
AT1G24148	22.1515	50.2616	1.182052203	0.00005	0.000282578
AT1G24150	6.51593	9.50159	0.54419785	0.00005	0.000282578
AT1G24160	41.008	31.4242	-0.384029367	0.00005	0.000282578
AT1G24180	79.8768	53.9738	-0.565517274	0.00005	0.000282578
AT1G24240	13.716	10.613	-0.370027286	0.0146	0.0424952
AT1G24260	10.086	26.3294	1.384320515	0.00005	0.000282578
AT1G24265	2.35078	4.38305	0.898795607	0.00005	0.000282578
AT1G24267	26.2595	45.8221	0.803204131	0.00005	0.000282578
AT1G24270	0.367948	1.53099	2.056891062	0.00305	0.0112447
AT1G24330	1.46304	2.23384	0.610556642	0.00145	0.00588787
AT1G24360	92.5413	68.1039	-0.442359949	0.00015	0.000779873
AT1G24470	1.15716	0.43899	-1.398328378	0.0103	0.03169
AT1G24510	98.1468	70.2939	-0.481541731	0.00005	0.000282578
AT1G24530	29.608	12.2682	-1.27106345	0.00005	0.000282578
AT1G24575	11.9261	23.7783	0.995523236	0.00005	0.000282578
AT1G24580	0.379707	1.27168	1.743777182	0.0088	0.0277304
AT1G24610	24.1553	13.9092	-0.796300326	0.00005	0.000282578
AT1G24625	16.5303	26.5823	0.68535303	0.00005	0.000282578
AT1G24880	342.031	415.641	0.281210883	0.00535	0.0181609
AT1G25141	5.25318	0.910053	-2.529168546	0.00005	0.000282578
AT1G25220	27.2764	38.818	0.509072542	0.0001	0.000537698
AT1G25230	68.534	38.1119	-0.84657836	0.00005	0.000282578
AT1G25250	1.14527	2.11427	0.884471869	0.00925	0.0289277
AT1G25277	2.86558	10.1963	1.831146648	0.00005	0.000282578
AT1G25290	11.9016	8.54226	-0.478465821	0.00115	0.00480526
AT1G25320	7.037	5.19574	-0.437631274	0.00135	0.00552942
AT1G25360	0.737133	1.92176	1.382431324	0.00005	0.000282578
AT1G25370	5.84626	9.94561	0.766545868	0.00005	0.000282578
AT1G25390	11.5726	18.6323	0.687092745	0.00005	0.000282578

AT1G25400	10.4387	32.0241	1.617215971	0.00005	0.000282578
AT1G25420	22.7262	16.796	-0.436238781	0.00035	0.00167549
AT1G25422	1.01378	0.221294	-2.195708367	0.00435	0.0152293
AT1G25440	147.926	101.038	-0.549977661	0.00005	0.000282578
AT1G25450	42.8002	21.5517	-0.989815864	0.00005	0.000282578
AT1G25490	67.1025	54.9584	-0.288026513	0.0038	0.0135703
AT1G25510	3.94965	5.14331	0.380972297	0.0123	0.0368055
AT1G25560	54.0232	64.6937	0.260046128	0.01185	0.0356661
AT1G26150	70.0616	35.3439	-0.987162693	0.00005	0.000282578
AT1G26190	7.22212	4.75467	-0.603077178	0.00005	0.000282578
AT1G26210	21.699	14.0472	-0.627345968	0.00005	0.000282578
AT1G26230	14.4753	24.7634	0.774616161	0.00005	0.000282578
AT1G26240	0.139403	0.596573	2.097437076	0.00525	0.0178784
AT1G26250	1.18843	2.74855	1.209613795	0.0057	0.0191634
AT1G26255	11.0808	24.2457	1.129666863	0.00005	0.000282578
AT1G26260	4.16908	2.42517	-0.781643175	0.0002	0.00101248
AT1G26270	22.7971	36.6503	0.684974696	0.00005	0.000282578
AT1G26330	1.0045	0.661109	-0.603517504	0.008	0.0256029
AT1G26380	0.832098	11.7387	3.818375385	0.00005	0.000282578
AT1G26390	0.773874	12.3057	3.991084227	0.00005	0.000282578
AT1G26420	1.92982	11.5738	2.584324425	0.00005	0.000282578
AT1G26440	25.672	36.1546	0.49398352	0.00005	0.000282578
AT1G26450	10.8325	7.67954	-0.496274435	0.0022	0.00846997
AT1G26460	21.8825	18.365	-0.252818674	0.01675	0.0476547
AT1G26470	14.9955	29.1969	0.961285571	0.00005	0.000282578
AT1G26500	0.554749	1.25795	1.181167513	0.00275	0.0102843
AT1G26560	5.17147	6.70484	0.374628477	0.0081	0.0258615
AT1G26570	7.17795	5.10405	-0.491929412	0.001	0.00425239
AT1G26620	6.97442	4.91432	-0.505081443	0.00005	0.000282578
AT1G26660	4.34557	7.94086	0.869749836	0.00005	0.000282578
AT1G26665	43.3579	83.3156	0.942291768	0.00005	0.000282578
AT1G26670	71.2819	88.4379	0.311128976	0.00245	0.0092976
AT1G26690	18.5403	33.4011	0.849231027	0.00005	0.000282578
AT1G26761	18.2745	13.3642	-0.451458455	0.00035	0.00167549
AT1G26770	27.698	20.3852	-0.442259696	0.00155	0.00624225
AT1G26810	3.50375	2.57947	-0.441825172	0.00845	0.0267941
AT1G26840	3.79724	1.92991	-0.976417616	0.0003	0.00145851
AT1G26850	114.055	88.872	-0.359928833	0.00025	0.00123846
AT1G26920	66.8418	34.0219	-0.974286872	0.00005	0.000282578
AT1G26945	12.5016	7.67471	-0.703928606	0.00005	0.000282578
AT1G27030	23.7606	45.5661	0.939389628	0.00005	0.000282578
AT1G27045	0.168707	0.918185	2.444265028	0.0008	0.00349363
AT1G27090	100.618	67.4777	-0.576405714	0.00005	0.000282578
AT1G27120	5.61774	2.99852	-0.90573926	0.00005	0.000282578
AT1G27150	26.9934	16.4271	-0.716528892	0.00005	0.000282578
AT1G27170	1.4323	1.96495	0.456158901	0.0048	0.0165649
AT1G27200	9.57248	17.2375	0.848585906	0.00005	0.000282578

AT1G27210	22.5006	14.3095	-0.65299021	0.00005	0.000282578
AT1G27290	82.4035	68.5851	-0.264810428	0.01155	0.0349062
AT1G27320	34.0965	47.6935	0.484169005	0.00005	0.000282578
AT1G27330	31.9485	62.1256	0.959439683	0.00005	0.000282578
AT1G27350	39.7703	68.4139	0.78259803	0.0001	0.000537698
AT1G27360	3.18281	5.374	0.755695284	0.00015	0.000779873
AT1G27410	4.16459	7.35695	0.820933316	0.00005	0.000282578
AT1G27420	2.78208	4.14409	0.57489143	0.00765	0.024665
AT1G27435	33.769	45.0505	0.415843661	0.00065	0.00291062
AT1G27440	7.54295	9.81371	0.379669777	0.0044	0.0153749
AT1G27460	22.0068	6.72834	-1.709626863	0.00005	0.000282578
AT1G27480	32.0161	53.9028	0.751562638	0.00005	0.000282578
AT1G27500	5.23038	3.6586	-0.515624073	0.00125	0.00516712
AT1G27520	17.3134	24.7486	0.515457847	0.00005	0.000282578
AT1G27600	25.5593	20.8507	-0.293752507	0.007	0.0228553
AT1G27660	3.01816	4.02343	0.414756644	0.0139	0.0408016
AT1G27670	3.74061	6.00002	0.681693753	0.0008	0.00349363
AT1G27680	11.5462	7.91936	-0.543962371	0.00005	0.000282578
AT1G27690	7.97378	10.1821	0.352699433	0.00565	0.0190219
AT1G27700	6.16646	8.46094	0.45637544	0.0022	0.00846997
AT1G27720	0.659665	1.49328	1.178679239	0.00015	0.000779873
AT1G27730	7.72971	34.7012	2.16649936	0.00005	0.000282578
AT1G27760	45.8669	67.6368	0.560355002	0.00005	0.000282578
AT1G27770	17.4564	25.4235	0.542406591	0.0008	0.00349363
AT1G27910	8.00456	6.36761	-0.330070125	0.00625	0.0207474
AT1G27920	5.24618	3.82288	-0.456607394	0.0054	0.0183008
AT1G27930	33.4376	24.8626	-0.427494127	0.00005	0.000282578
AT1G27950	282.442	111.535	-1.340458135	0.00005	0.000282578
AT1G27980	19.6722	25.1494	0.354365674	0.0007	0.00310863
AT1G28010	7.18697	2.15494	-1.737735963	0.00005	0.000282578
AT1G28100	14.0624	8.85855	-0.66670036	0.00205	0.00796423
AT1G28140	41.0694	24.8147	-0.726868857	0.00005	0.000282578
AT1G28150	43.9568	34.1234	-0.365324962	0.0014	0.00571151
AT1G28190	8.21007	17.5334	1.094639357	0.00005	0.000282578
AT1G28210	3.42418	4.64755	0.440711844	0.0159	0.0456527
AT1G28230	4.55105	20.8606	2.196509312	0.00005	0.000282578
AT1G28370	1.21685	2.27572	0.903171723	0.00425	0.0149278
AT1G28400	58.3038	98.6688	0.759004048	0.00005	0.000282578
AT1G28440	38.6449	26.957	-0.519618083	0.00005	0.000282578
AT1G28480	0.996979	7.61444	2.933102917	0.00005	0.000282578
AT1G28520	25.1142	20.1567	-0.317243855	0.01215	0.0364357
AT1G28570	4.98352	21.6167	2.116909275	0.00005	0.000282578
AT1G28580	58.9702	122.487	1.054570647	0.00005	0.000282578
AT1G28600	48.918	85.2348	0.801077159	0.00005	0.000282578
AT1G28610	7.49243	13.7684	0.877855311	0.00005	0.000282578
AT1G28660	33.8674	59.8159	0.820631791	0.00005	0.000282578
AT1G28670	50.3927	66.0083	0.389432686	0.00005	0.000282578

AT1G28690	0.813543	1.64481	1.015630434	0.0022	0.00846997
AT1G28710	9.34722	7.37795	-0.341317338	0.0121	0.0363089
AT1G28760	2.43074	4.3386	0.835833996	0.00005	0.000282578
AT1G28765	1.42304	3.01852	1.084865145	0.00165	0.00658915
AT1G29030	4.85732	11.3124	1.2196726	0.00005	0.000282578
AT1G29050	16.2087	39.7943	1.295793413	0.00005	0.000282578
AT1G29060	8.18872	11.1504	0.445385602	0.00685	0.0224336
AT1G29070	262.051	139.502	-0.909561809	0.00005	0.000282578
AT1G29090	1.94711	0.074536	-4.707260924	0.0102	0.0314297
AT1G29160	4.27523	6.93687	0.698282812	0.0003	0.00145851
AT1G29240	2.18999	5.45976	1.317913252	0.00005	0.000282578
AT1G29290	0.379758	1.16698	1.619627574	0.0015	0.00606399
AT1G29340	24.3265	29.9503	0.300041688	0.0029	0.0107667
AT1G29355	11.4546	17.2049	0.586892427	0.00005	0.000282578
AT1G29390	55.2647	42.27	-0.386724149	0.0007	0.00310863
AT1G29395	84.6685	39.4483	-1.101862201	0.00005	0.000282578
AT1G29400	59.0333	76.3586	0.37126166	0.00025	0.00123846
AT1G29418	22.0023	31.2934	0.508204072	0.00055	0.00251246
AT1G29430	15.0349	6.49635	-1.210614005	0.00005	0.000282578
AT1G29440	17.1083	9.06719	-0.915968989	0.0003	0.00145851
AT1G29450	9.70998	4.2526	-1.191123163	0.00005	0.000282578
AT1G29460	8.68052	4.36321	-0.992391557	0.00005	0.000282578
AT1G29465	4.82527	14.2757	1.564879913	0.00005	0.000282578
AT1G29470	110.984	87.8184	-0.337756551	0.00095	0.00406118
AT1G29500	6.60381	4.25155	-0.635309708	0.0024	0.0091296
AT1G29510	8.8319	5.81022	-0.604131046	0.00435	0.0152293
AT1G29560	2.76865	1.93065	-0.520096039	0.0082	0.026125
AT1G29600	2.32241	3.31324	0.512620022	0.01555	0.0447988
AT1G29630	3.73523	2.64004	-0.500637293	0.00255	0.00962703
AT1G29640	2.94918	5.09506	0.788785257	0.0027	0.0101192
AT1G29660	87.1408	53.4575	-0.704955988	0.00005	0.000282578
AT1G29670	254.828	125.916	-1.017062191	0.00005	0.000282578
AT1G29700	44.2362	27.341	-0.694161449	0.00005	0.000282578
AT1G29720	2.21329	0.644801	-1.779266609	0.00005	0.000282578
AT1G29730	1.041	0.649509	-0.680548647	0.0059	0.019741
AT1G29820	12.8639	6.65834	-0.95009365	0.00005	0.000282578
AT1G29850	62.1159	50.3265	-0.303644339	0.0084	0.0266576
AT1G29860	0.570762	3.61464	2.662890777	0.00005	0.000282578
AT1G29890	20.8439	12.2028	-0.772413018	0.00005	0.000282578
AT1G29910	8123.44	208.338	-5.285092879	0.00005	0.000282578
AT1G29920	6069.58	38.1813	-7.312586654	0.00005	0.000282578
AT1G30040	1.79893	2.76228	0.618720517	0.0033	0.0120328
AT1G30070	7.65366	15.8116	1.046761645	0.00005	0.000282578
AT1G30080	1.75858	2.79068	0.666205737	0.0025	0.00945953
AT1G30160	0.275126	0.943774	1.778348943	0.00275	0.0102843
AT1G30200	32.3568	25.7896	-0.327279539	0.0016	0.00641937
AT1G30210	40.0421	24.082	-0.733562426	0.00005	0.000282578

AT1G30220	0.453898	2.35393	2.374631382	0.00005	0.000282578
AT1G30230	284.528	351.864	0.306447283	0.0021	0.00813349
AT1G30260	6.19245	20.7193	1.742393043	0.00005	0.000282578
AT1G30270	41.6142	50.4353	0.277357936	0.0062	0.0206032
AT1G30280	25.1476	5.9137	-2.088287758	0.00005	0.000282578
AT1G30300	8.97197	11.4447	0.351182944	0.01415	0.0413977
AT1G30320	11.6168	18.5011	0.671398336	0.00005	0.000282578
AT1G30360	252.494	143.936	-0.810821634	0.00005	0.000282578
AT1G30380	3555.52	893.444	-1.992611361	0.00005	0.000282578
AT1G30420	4.51761	2.76014	-0.710818285	0.00005	0.000282578
AT1G30440	27.0166	18.7041	-0.530491577	0.00005	0.000282578
AT1G30460	7.04541	10.0531	0.512884873	0.00005	0.000282578
AT1G30500	8.54757	33.4656	1.969092643	0.00005	0.000282578
AT1G30510	39.7963	31.9697	-0.315929099	0.00325	0.0118728
AT1G30520	11.567	8.1124	-0.511814043	0.00005	0.000282578
AT1G30530	17.6702	45.5511	1.366167525	0.00005	0.000282578
AT1G30550	1.31547	2.56423	0.962947324	0.00305	0.0112447
AT1G30560	0.821249	3.33877	2.023425099	0.00005	0.000282578
AT1G30570	10.7719	8.51752	-0.338767407	0.0029	0.0107667
AT1G30580	118.246	86.6066	-0.449242504	0.00005	0.000282578
AT1G30590	19.1981	25.1413	0.389095713	0.0002	0.00101248
AT1G30610	10.6053	7.62537	-0.475906185	0.00005	0.000282578
AT1G30630	79.6012	61.472	-0.372860756	0.0006	0.00271108
AT1G30650	10.5058	6.36581	-0.722770022	0.00005	0.000282578
AT1G30680	12.1281	16.5116	0.445126372	0.00005	0.000282578
AT1G30690	47.5592	25.3955	-0.905151569	0.00005	0.000282578
AT1G30700	10.3392	7.63441	-0.437535988	0.00065	0.00291062
AT1G30720	15.5443	10.2411	-0.602014966	0.00005	0.000282578
AT1G30730	8.84659	4.61447	-0.938956507	0.00005	0.000282578
AT1G30820	31.9073	21.2377	-0.587258999	0.00005	0.000282578
AT1G30840	8.28417	11.0024	0.409389195	0.004	0.0141788
AT1G30900	6.77624	9.33099	0.461545184	0.0005	0.00230701
AT1G30990	2.01744	0.631785	-1.675020178	0.0025	0.00945953
AT1G31010	3.33869	4.70674	0.495446017	0.0112	0.0340068
AT1G31120	14.2267	20.7401	0.543821795	0.00005	0.000282578
AT1G31130	41.1191	53.6899	0.38484203	0.00015	0.000779873
AT1G31180	50.6589	33.8828	-0.58026265	0.00005	0.000282578
AT1G31190	44.4625	26.6713	-0.737300924	0.00005	0.000282578
AT1G31240	0.315621	1.10404	1.806527339	0.0085	0.0269248
AT1G31280	5.17375	9.56115	0.88597381	0.00005	0.000282578
AT1G31290	0.759161	1.34819	0.828546045	0.00015	0.000779873
AT1G31310	0.96942	1.939	1.000119051	0.0011	0.00462106
AT1G31330	4143.25	809.65	-2.355392582	0.00005	0.000282578
AT1G31335	15.5694	9.77759	-0.671162532	0.0002	0.00101248
AT1G31350	2.55458	11.1107	2.120791691	0.00005	0.000282578
AT1G31410	15.551	9.93128	-0.646955778	0.00005	0.000282578
AT1G31470	3.94001	5.43409	0.463839168	0.01365	0.0401899

AT1G31480	7.29652	13.5838	0.896606668	0.00005	0.000282578
AT1G31490	1.32243	3.05397	1.207494532	0.00035	0.00167549
AT1G31540	8.91804	17.8783	1.003410985	0.00005	0.000282578
AT1G31550	4.01307	11.6377	1.536027735	0.00005	0.000282578
AT1G31580	273.883	1016.89	1.892532002	0.00005	0.000282578
AT1G31600	17.9645	22.2367	0.307793921	0.00655	0.021582
AT1G31690	4.4995	0.618955	-2.861858263	0.00005	0.000282578
AT1G31770	13.1608	17.8386	0.438755207	0.00005	0.000282578
AT1G31780	27.5754	21.4525	-0.362236029	0.00085	0.00368886
AT1G31790	1.48973	4.51625	1.600074471	0.016	0.0458958
AT1G31812	330.006	214.605	-0.620808566	0.00005	0.000282578
AT1G31814	4.92226	6.51713	0.404915909	0.0054	0.0183008
AT1G31820	4.7218	11.1432	1.238754752	0.00005	0.000282578
AT1G31885	4.24124	2.42045	-0.809210831	0.00135	0.00552942
AT1G31910	65.7378	91.9011	0.483358954	0.00005	0.000282578
AT1G31930	17.4136	13.1297	-0.407380537	0.0002	0.00101248
AT1G31950	2.49202	3.36649	0.433929532	0.0138	0.0405566
AT1G31970	32.1994	42.959	0.415926605	0.0001	0.000537698
AT1G32060	860.818	638.198	-0.431704158	0.00015	0.000779873
AT1G32130	54.5047	42.3122	-0.365306941	0.0002	0.00101248
AT1G32160	65.8395	40.7908	-0.690709578	0.00005	0.000282578
AT1G32170	25.5152	32.9144	0.367361949	0.00115	0.00480526
AT1G32190	8.71775	5.13573	-0.763386474	0.00005	0.000282578
AT1G32200	49.136	24.1351	-1.025647613	0.00005	0.000282578
AT1G32220	80.5632	32.7276	-1.299613179	0.00005	0.000282578
AT1G32330	6.71194	9.374	0.481934976	0.0003	0.00145851
AT1G32380	6.62197	8.76488	0.404473864	0.0029	0.0107667
AT1G32415	1.18638	1.73488	0.548269694	0.01705	0.0483657
AT1G32450	80.2217	37.2157	-1.108081167	0.00005	0.000282578
AT1G32460	135.704	84.1331	-0.689717838	0.01395	0.0409307
AT1G32470	523.659	379.955	-0.46279909	0.00005	0.000282578
AT1G32500	60.9737	32.428	-0.910947046	0.00005	0.000282578
AT1G32520	17.0231	26.9177	0.66106136	0.00005	0.000282578
AT1G32540	26.6809	6.75995	-1.980722852	0.00005	0.000282578
AT1G32550	62.4084	32.9167	-0.922920517	0.00005	0.000282578
AT1G32580	22.9545	33.8967	0.56236782	0.00005	0.000282578
AT1G32640	15.7217	27.8922	0.827104506	0.00005	0.000282578
AT1G32700	53.8723	65.2298	0.275987545	0.0063	0.0208862
AT1G32780	3.29998	1.73123	-0.930659876	0.0001	0.000537698
AT1G32790	79.8998	62.4789	-0.354822838	0.0006	0.00271108
AT1G32870	5.47057	10.8603	0.98930089	0.00005	0.000282578
AT1G32900	6.22508	8.72493	0.487051179	0.0003	0.00145851
AT1G32920	18.1444	32.3155	0.832701963	0.00005	0.000282578
AT1G32940	5.18018	7.2631	0.487583214	0.0006	0.00271108
AT1G32990	224.347	126.717	-0.824121807	0.00005	0.000282578
AT1G33040	69.5933	47.7005	-0.544944031	0.00265	0.00995735
AT1G33050	33.8454	23.3906	-0.533030898	0.00005	0.000282578

AT1G33102	2.01837	5.64354	1.483409732	0.00005	0.000282578
AT1G33110	18.4786	31.7234	0.779691945	0.00005	0.000282578
AT1G33120	66.1092	54.5626	-0.276938664	0.0096	0.0298585
AT1G33140	122.249	96.2227	-0.345373477	0.0005	0.00230701
AT1G33240	49.2463	26.1971	-0.91060822	0.00005	0.000282578
AT1G33250	14.9013	12.2943	-0.277448603	0.01415	0.0413977
AT1G33260	2.98739	5.01181	0.746446131	0.0001	0.000537698
AT1G33350	0.929469	1.65728	0.834338715	0.00095	0.00406118
AT1G33390	4.49648	5.97995	0.41133737	0.00055	0.00251246
AT1G33420	4.08756	5.93169	0.537203294	0.00025	0.00123846
AT1G33560	5.00626	8.89244	0.828846116	0.00005	0.000282578
AT1G33590	139.028	107.109	-0.376295759	0.0002	0.00101248
AT1G33600	63.5877	38.6728	-0.717428504	0.00005	0.000282578
AT1G33610	7.60983	6.03284	-0.335026905	0.0175	0.0494159
AT1G33720	2.38033	1.6859	-0.497642633	0.00725	0.0235462
AT1G33780	37.4704	47.4214	0.339786877	0.0013	0.00534838
AT1G33790	13.1722	4.3357	-1.603159481	0.00005	0.000282578
AT1G33810	78.3444	60.8335	-0.364964145	0.00065	0.00291062
AT1G33890	0.478199	0	-inf	0.00005	0.000282578
AT1G33930	2.18076	0.764176	-1.512854152	0.00015	0.000779873
AT1G33960	1.66443	3.81055	1.194971049	0.00005	0.000282578
AT1G33970	54.0417	40.9734	-0.399385445	0.0001	0.000537698
AT1G34000	282.753	146.779	-0.945896758	0.00005	0.000282578
AT1G34010	14.6036	8.3462	-0.807132661	0.00005	0.000282578
AT1G34040	4.76344	6.50626	0.449824659	0.00415	0.0146251
AT1G34060	1.05994	11.8697	3.485228967	0.00005	0.000282578
AT1G34065	2.67926	4.04097	0.592867051	0.0056	0.0188774
AT1G34160	1.44736	4.01628	1.472436046	0.00005	0.000282578
AT1G34180	0.710633	3.63765	2.355830149	0.00005	0.000282578
AT1G34200	11.9261	8.5245	-0.484435218	0.00015	0.000779873
AT1G34210	15.7473	22.6632	0.525247093	0.00255	0.00962703
AT1G34220	25.4081	19.6065	-0.373956476	0.01215	0.0364357
AT1G34270	5.8081	4.47963	-0.374686717	0.01755	0.0495297
AT1G34340	17.0725	10.3545	-0.721416444	0.00005	0.000282578
AT1G34355	2.22054	1.12748	-0.977808718	0.00005	0.000282578
AT1G34430	74.6487	45.5134	-0.713825772	0.00005	0.000282578
AT1G34550	20.528	15.903	-0.368294129	0.0006	0.00271108
AT1G34580	1.14716	0.200226	-2.518365395	0.0001	0.000537698
AT1G34630	13.7971	9.47777	-0.541745504	0.00425	0.0149278
AT1G34750	10.5791	16.795	0.666814898	0.00005	0.000282578
AT1G34760	26.1683	7.52609	-1.797847757	0.00005	0.000282578
AT1G35190	25.4764	34.521	0.438312828	0.0001	0.000537698
AT1G35210	0.547149	2.35664	2.106725722	0.0002	0.00101248
AT1G35230	1.82367	5.67322	1.637323119	0.00005	0.000282578
AT1G35250	5.50325	3.90139	-0.496295645	0.0155	0.0446831
AT1G35260	17.6836	24.488	0.469662944	0.00135	0.00552942
AT1G35310	2.50339	7.85548	1.649816368	0.00005	0.000282578

AT1G35320	4.75767	10.5422	1.147848855	0.00005	0.000282578
AT1G35340	54.3817	39.5972	-0.457722834	0.00005	0.000282578
AT1G35350	18.2025	13.5631	-0.424449649	0.0001	0.000537698
AT1G35420	86.0896	51.0647	-0.753512635	0.00005	0.000282578
AT1G35430	11.0808	8.14784	-0.443572488	0.0176	0.0496468
AT1G35516	22.6868	29.7398	0.390541816	0.00235	0.00897001
AT1G35530	0.970321	0.531062	-0.869581795	0.0002	0.00101248
AT1G35560	7.35804	12.5868	0.774518122	0.00005	0.000282578
AT1G35580	89.1252	48.8163	-0.868470458	0.00005	0.000282578
AT1G35620	40.5779	26.8406	-0.596277282	0.00005	0.000282578
AT1G35660	3.28088	6.69307	1.028585275	0.00005	0.000282578
AT1G35670	22.6067	14.9524	-0.596373342	0.00005	0.000282578
AT1G35680	406.991	186.788	-1.123595118	0.00005	0.000282578
AT1G35710	1.64768	13.5522	3.040019085	0.00005	0.000282578
AT1G35720	357.005	591.664	0.728833837	0.00005	0.000282578
AT1G36050	37.091	26.3496	-0.493288103	0.00005	0.000282578
AT1G36060	17.4447	13.1038	-0.412803545	0.00025	0.00123846
AT1G36160	39.5479	32.6783	-0.275268156	0.0079	0.0253358
AT1G36180	2.0188	1.61143	-0.325156472	0.0153	0.0442022
AT1G36370	31.3024	67.1214	1.100499533	0.00005	0.000282578
AT1G36390	36.3121	27.199	-0.416896756	0.00295	0.0109262
AT1G36622	2.22711	6.32977	1.506980262	0.00005	0.000282578
AT1G36730	74.5616	98.0496	0.395078926	0.00005	0.000282578
AT1G36980	83.6913	103.941	0.312615282	0.00195	0.00762526
AT1G37150	0.353511	0.970415	1.456846744	0.002	0.00779418
AT1G41830	48.4549	34.6615	-0.483308476	0.00005	0.000282578
AT1G42430	13.6181	9.51972	-0.516534386	0.00005	0.000282578
AT1G42480	22.7985	29.5911	0.37622442	0.002	0.00779418
AT1G42550	32.7933	51.1097	0.640196035	0.00005	0.000282578
AT1G42960	218.171	155.686	-0.48682013	0.00005	0.000282578
AT1G42970	1034.69	757.207	-0.450438938	0.00015	0.000779873
AT1G43020	2.81214	1.82598	-0.622997456	0.0057	0.0191634
AT1G43130	26.3569	21.4275	-0.298717159	0.00945	0.0294592
AT1G43170	420.014	317.768	-0.402463568	0.0001	0.000537698
AT1G43190	47.568	39.3917	-0.272099689	0.0074	0.0239743
AT1G43560	82.621	58.4372	-0.499621468	0.00005	0.000282578
AT1G43620	18.3023	14.0572	-0.380715701	0.00075	0.0032996
AT1G43650	3.78807	2.33007	-0.701089694	0.0018	0.00711608
AT1G43670	169.963	101.598	-0.742348712	0.00005	0.000282578
AT1G43700	40.2285	57.1593	0.506770303	0.00425	0.0149278
AT1G43710	66.2559	41.8415	-0.663114358	0.00005	0.000282578
AT1G43770	2.25583	3.59947	0.674126144	0.00085	0.00368886
AT1G43800	2.16245	13.7688	2.670664149	0.00005	0.000282578
AT1G43910	2.4642	10.0646	2.030098578	0.00005	0.000282578
AT1G43980	0.520107	0.987409	0.92483934	0.0065	0.021442
AT1G44000	73.1216	35.2959	-1.05079703	0.00005	0.000282578
AT1G44050	0.904206	0.471	-0.940924431	0.0038	0.0135703



AT1G44100	17.8005	36.2684	1.026795336	0.00005	0.000282578
AT1G44110	7.69316	3.65315	-1.074435321	0.00005	0.000282578
AT1G44120	2.2287	1.47484	-0.595643982	0.00005	0.000282578
AT1G44130	0.779089	2.82322	1.857481505	0.01225	0.0366818
AT1G44350	7.40971	5.67255	-0.385419659	0.0037	0.0132727
AT1G44446	125.698	28.7905	-2.126296946	0.00005	0.000282578
AT1G44835	19.6114	15.3671	-0.351847596	0.00385	0.0137217
AT1G44900	8.37938	6.099	-0.458270785	0.00015	0.000779873
AT1G44920	71.0374	56.0865	-0.340925223	0.0124	0.037054
AT1G45000	78.2067	62.8626	-0.315090266	0.00175	0.00694124
AT1G45130	29.6104	17.8137	-0.733116777	0.00005	0.000282578
AT1G45145	103.086	76.6891	-0.426754971	0.0001	0.000537698
AT1G45165	30.0099	14.9174	-1.008442406	0.00005	0.000282578
AT1G45201	90.8	223.581	1.30003339	0.00005	0.000282578
AT1G45207	7.271	4.997	-0.541091577	0.00005	0.000282578
AT1G45231	4.53662	7.21235	0.668851589	0.00005	0.000282578
AT1G45233	7.52293	5.36332	-0.488168333	0.0016	0.00641937
AT1G45249	16.7815	28.6957	0.773962892	0.00005	0.000282578
AT1G45474	192.992	91.2467	-1.080696757	0.00005	0.000282578
AT1G45616	0.126051	2.02355	4.004809028	0.00005	0.000282578
AT1G46264	3.33349	4.90429	0.557010892	0.00255	0.00962704
AT1G47128	332.409	518.317	0.640875269	0.00005	0.000282578
AT1G47210	12.3521	6.90982	-0.838036303	0.00005	0.000282578
AT1G47240	8.58534	12.066	0.491000313	0.0012	0.00498818
AT1G47270	14.3342	5.11228	-1.487422629	0.00005	0.000282578
AT1G47271	1.65784	2.94412	0.828531698	0.0152	0.0439578
AT1G47278	14.5121	22.7816	0.650612772	0.00005	0.000282578
AT1G47290	14.5431	10.5273	-0.466199359	0.0004	0.00188925
AT1G47380	10.3927	8.39591	-0.307811905	0.01235	0.0369298
AT1G47490	39.1414	30.815	-0.345062568	0.0006	0.00271108
AT1G47510	0.345543	0.859607	1.314811978	0.00495	0.0169989
AT1G47550	36.7606	30.1555	-0.285739158	0.00455	0.015822
AT1G47710	30.4936	22.4215	-0.443623684	0.00015	0.000779873
AT1G47740	45.0765	29.7045	-0.601693996	0.00005	0.000282578
AT1G47760	2.83704	0.928111	-1.612017228	0.0006	0.00271108
AT1G47890	0.135922	0.717172	2.399540177	0.00005	0.000282578
AT1G47960	11.1663	28.2474	1.33896686	0.00005	0.000282578
AT1G47970	66.165	47.3012	-0.484191477	0.00005	0.000282578
AT1G48000	0.355614	2.22008	2.642227637	0.00065	0.00291062
AT1G48160	37.6015	28.695	-0.389990841	0.006	0.0200297
AT1G48200	10.6339	18.0769	0.765476487	0.00005	0.000282578
AT1G48210	27.6912	45.696	0.72264031	0.00005	0.000282578
AT1G48230	28.3925	21.5303	-0.399141464	0.0026	0.00979559
AT1G48260	5.91117	7.53169	0.349529909	0.01495	0.0433596
AT1G48280	6.22485	4.51413	-0.463591107	0.0021	0.00813349
AT1G48300	197.32	243.074	0.300858394	0.00305	0.0112447
AT1G48320	10.3398	18.4538	0.835709646	0.00005	0.000282578

AT1G48350	289.182	139.178	-1.055046574	0.00005	0.000282578
AT1G48370	6.10631	14.6471	1.262242314	0.00005	0.000282578
AT1G48430	20.1061	29.2075	0.538705609	0.0145	0.0422563
AT1G48480	30.4174	17.4792	-0.799257684	0.00005	0.000282578
AT1G48490	15.5235	18.5946	0.260429843	0.01115	0.0338768
AT1G48510	0.367755	1.05544	1.521027705	0.00105	0.00443869
AT1G48520	37.0257	26.4877	-0.483204435	0.00005	0.000282578
AT1G48600	84.9235	111.952	0.398644566	0.00005	0.000282578
AT1G48610	14.7397	11.1261	-0.405759184	0.0028	0.0104493
AT1G48620	54.1709	36.5181	-0.568906355	0.00005	0.000282578
AT1G48630	48.3532	38.7836	-0.318164645	0.0022	0.00846997
AT1G48670	0.723945	0.347466	-1.059008281	0.0093	0.029061
AT1G48745	5.45626	8.03738	0.5588129	0.0067	0.0220088
AT1G48920	173.204	127.573	-0.441149224	0.00005	0.000282578
AT1G48970	13.1851	16.8173	0.351037588	0.0038	0.0135703
AT1G49000	2.27763	4.75112	1.060734245	0.00005	0.000282578
AT1G49010	17.5693	23.6784	0.430514886	0.00025	0.00123846
AT1G49032	25.9042	18.1998	-0.509263433	0.00005	0.000282578
AT1G49050	11.2892	16.5099	0.548388128	0.00005	0.000282578
AT1G49130	9.40203	3.56009	-1.401058571	0.00005	0.000282578
AT1G49205	2.53651	5.64256	1.153505006	0.0004	0.00188925
AT1G49230	10.7176	17.0197	0.667223729	0.00005	0.000282578
AT1G49245	3.78776	5.63959	0.57424536	0.01055	0.0323254
AT1G49300	82.9927	54.1463	-0.616121686	0.00005	0.000282578
AT1G49310	12.165	8.16826	-0.574635626	0.00375	0.0134211
AT1G49320	10.1468	6.40264	-0.664286017	0.0001	0.000537698
AT1G49400	21.3325	26.4073	0.307883753	0.01735	0.0490658
AT1G49430	31.4434	18.0353	-0.801933805	0.00005	0.000282578
AT1G49480	30.6578	42.4136	0.468272769	0.00005	0.000282578
AT1G49500	138.868	80.131	-0.793281805	0.00005	0.000282578
AT1G49510	22.5583	15.6192	-0.530337788	0.00005	0.000282578
AT1G49570	1.68544	2.52174	0.581294267	0.01755	0.0495297
AT1G49580	21.0574	12.219	-0.785201095	0.00005	0.000282578
AT1G49620	2.16514	4.08381	0.915455432	0.0009	0.00387377
AT1G49660	41.4663	57.6787	0.476099326	0.00025	0.00123846
AT1G49670	34.4607	26.6783	-0.36928527	0.0004	0.00188925
AT1G49710	12.5708	15.9055	0.33944926	0.00265	0.00995735
AT1G49720	62.2222	28.7853	-1.112097157	0.00005	0.000282578
AT1G49730	27.859	9.33722	-1.577078492	0.00005	0.000282578
AT1G49740	9.60801	21.6676	1.173229805	0.00005	0.000282578
AT1G49750	60.776	132.809	1.127779285	0.00005	0.000282578
AT1G49760	64.4915	44.2685	-0.542828536	0.00005	0.000282578
AT1G49820	19.1342	26.3246	0.460258027	0.00005	0.000282578
AT1G49840	6.43809	4.96381	-0.37518485	0.00725	0.0235462
AT1G49860	4.99685	3.22749	-0.630606285	0.0037	0.0132727
AT1G49870	3.96511	1.17555	-1.754024987	0.00005	0.000282578
AT1G49900	0.279633	1.65585	2.565965457	0.00005	0.000282578

AT1G49910	2.81454	1.74887	-0.686476099	0.00635	0.0210292
AT1G49940	0.785224	1.52614	0.95871114	0.0083	0.0263922
AT1G49975	31.9734	16.5682	-0.948455292	0.00005	0.000282578
AT1G50010	303.044	207.884	-0.543748555	0.00005	0.000282578
AT1G50040	4.20518	1.53494	-1.453985293	0.00005	0.000282578
AT1G50060	7.54537	1.69418	-2.155004484	0.00005	0.000282578
AT1G50110	4.59543	8.44284	0.877528511	0.00005	0.000282578
AT1G50180	0.614149	2.29796	1.903693067	0.00005	0.000282578
AT1G50240	4.51651	1.80482	-1.323353443	0.0129	0.0383166
AT1G50250	102.782	82.5357	-0.316497448	0.0024	0.0091296
AT1G50280	5.69351	2.7934	-1.027296161	0.00005	0.000282578
AT1G50320	222.129	171.584	-0.372482726	0.0002	0.00101248
AT1G50380	12.4166	17.8786	0.525963591	0.00005	0.000282578
AT1G50400	0.341647	1.99583	2.546410477	0.00005	0.000282578
AT1G50420	5.62584	9.69064	0.784523426	0.00005	0.000282578
AT1G50450	35.6042	25.5813	-0.476957855	0.00075	0.0032996
AT1G50500	24.1142	17.5412	-0.459135502	0.0001	0.000537698
AT1G50630	11.6455	8.38852	-0.473284382	0.00035	0.00167549
AT1G50640	35.244	43.2428	0.29508227	0.0043	0.0150809
AT1G50670	48.4449	34.6133	-0.485018302	0.00005	0.000282578
AT1G50710	12.6907	9.53012	-0.413205363	0.00455	0.015822
AT1G50732	10.1185	5.18418	-0.96480772	0.00005	0.000282578
AT1G50740	17.7228	24.3864	0.460470247	0.0014	0.00571151
AT1G50830	0.562546	0.290887	-0.951512249	0.0111	0.0337467
AT1G50840	14.6583	21.3518	0.542639901	0.00005	0.000282578
AT1G50890	4.23749	2.89583	-0.549233052	0.0003	0.00145851
AT1G50900	100.934	58.785	-0.779892255	0.00005	0.000282578
AT1G50970	4.89602	6.73541	0.460156317	0.0026	0.00979559
AT1G51100	24.2194	18.6849	-0.374290282	0.0043	0.0150809
AT1G51110	96.3645	51.7631	-0.896577745	0.00005	0.000282578
AT1G51140	7.82131	18.7567	1.261923855	0.00005	0.000282578
AT1G51170	6.09394	8.77322	0.525731151	0.00035	0.00167549
AT1G51200	238.993	448.602	0.908467689	0.00005	0.000282578
AT1G51270	6.88708	12.0463	0.806625753	0.00005	0.000282578
AT1G51310	10.6761	15.2477	0.514206916	0.00005	0.000282578
AT1G51340	4.60874	8.7448	0.924053008	0.00005	0.000282578
AT1G51380	0.989896	2.5454	1.362543522	0.00005	0.000282578
AT1G51400	226.328	80.3506	-1.494034376	0.00005	0.000282578
AT1G51402	318.914	82.3191	-1.953868317	0.00005	0.000282578
AT1G51405	2.3451	1.2912	-0.86093696	0.0014	0.00571151
AT1G51420	5.4794	2.11671	-1.372194299	0.00005	0.000282578
AT1G51440	0.711246	1.28118	0.849052643	0.00455	0.015822
AT1G51460	2.42515	1.67499	-0.533921501	0.00705	0.0229904
AT1G51470	20.6674	16.164	-0.35457265	0.0017	0.00676327
AT1G51500	89.2048	61.3397	-0.540300231	0.00005	0.000282578
AT1G51560	20.3576	16.0884	-0.339546633	0.0035	0.0126552
AT1G51570	56.5195	38.5622	-0.551561342	0.00005	0.000282578

AT1G51580	17.072	12.1254	-0.493599741	0.0107	0.0327122
AT1G51610	35.9401	20.4741	-0.811794388	0.00005	0.000282578
AT1G51680	72.3389	104.606	0.532122039	0.00005	0.000282578
AT1G51745	6.06783	8.35857	0.462075478	0.0002	0.00101248
AT1G51760	21.2198	36.1146	0.767171133	0.00005	0.000282578
AT1G51805	66.9608	46.5649	-0.524073884	0.00005	0.000282578
AT1G51830	27.4746	15.201	-0.853932243	0.00005	0.000282578
AT1G51840	25.4003	12.7083	-0.999074484	0.00005	0.000282578
AT1G51850	10.422	16.0198	0.620223977	0.00005	0.000282578
AT1G51870	0.678992	0.07187	-3.239937	0.00015	0.000779873
AT1G51880	1.29364	0.294459	-2.135297519	0.00005	0.000282578
AT1G51890	2.52676	8.17148	1.693308761	0.00005	0.000282578
AT1G51940	41.7849	15.4477	-1.435589631	0.00005	0.000282578
AT1G52000	4.25009	25.6409	2.592881604	0.00005	0.000282578
AT1G52040	2.34036	1.14352	-1.033248867	0.00055	0.00251246
AT1G52060	14.8553	11.5733	-0.360177449	0.007	0.0228553
AT1G52070	28.0974	34.9273	0.313918485	0.0056	0.0188774
AT1G52100	56.9214	67.7628	0.251522343	0.0147	0.0427366
AT1G52120	0.11286	0.583373	2.369884361	0.004	0.0141788
AT1G52160	4.40197	6.06676	0.462776927	0.00055	0.00251246
AT1G52190	66.021	44.3431	-0.574215359	0.00005	0.000282578
AT1G52200	80.3107	44.3072	-0.858051056	0.00005	0.000282578
AT1G52220	359.464	141.085	-1.349282683	0.00005	0.000282578
AT1G52230	2390.49	513.714	-2.218269074	0.00005	0.000282578
AT1G52280	35.7364	19.2144	-0.895206381	0.00005	0.000282578
AT1G52290	12.512	8.82733	-0.50326338	0.00005	0.000282578
AT1G52300	455.349	354.541	-0.361020242	0.00015	0.000779873
AT1G52320	14.1216	16.9984	0.267495399	0.0146	0.0424952
AT1G52342	4.0189	10.9858	1.450767347	0.00005	0.000282578
AT1G52410	10.9562	20.774	0.923031524	0.00005	0.000282578
AT1G52420	22.441	27.0082	0.267260527	0.0103	0.03169
AT1G52450	0.437314	0.794935	0.862167364	0.0024	0.0091296
AT1G52470	0	0.532945	inf	0.00005	0.000282578
AT1G52510	108.697	47.9552	-1.180552956	0.00005	0.000282578
AT1G52570	0.816269	1.99909	1.292226851	0.00005	0.000282578
AT1G52590	20.352	37.3095	0.87437245	0.00005	0.000282578
AT1G52618	4.53622	7.42252	0.710418465	0.0106	0.0324543
AT1G52670	48.99	35.5907	-0.460986983	0.00005	0.000282578
AT1G52690	0.25461	1.53564	2.592479056	0.00325	0.0118728
AT1G52710	10.2374	13.3832	0.386573754	0.01445	0.0421356
AT1G52720	18.7854	32.0282	0.769730884	0.00005	0.000282578
AT1G52740	134.795	104.144	-0.372187259	0.00125	0.00516712
AT1G52760	44.9058	68.8021	0.615550806	0.00005	0.000282578
AT1G52770	0.680746	1.16227	0.771756746	0.0169	0.0480113
AT1G52780	10.1805	13.1357	0.367684665	0.0006	0.00271108
AT1G52800	1.40058	2.82197	1.01067826	0.00095	0.00406118
AT1G52820	3.07235	1.69925	-0.854444453	0.00555	0.0187351

AT1G52827	13.1498	3.22855	-2.026082582	0.00005	0.000282578
AT1G52870	80.3034	60.5881	-0.406426608	0.0001	0.000537698
AT1G52880	6.10299	8.90519	0.545130166	0.0001	0.000537698
AT1G52890	1.18903	3.71229	1.642524301	0.00005	0.000282578
AT1G52930	19.0641	23.5967	0.307726688	0.0109	0.0332243
AT1G53000	28.3088	23.0611	-0.295789265	0.0098	0.0303881
AT1G53035	20.0638	9.84683	-1.026863616	0.00005	0.000282578
AT1G53040	16.8491	11.9606	-0.494381768	0.00005	0.000282578
AT1G53050	20.7784	14.4261	-0.526403237	0.00005	0.000282578
AT1G53070	7.49175	9.85107	0.394977678	0.009	0.0282735
AT1G53090	5.89325	9.43791	0.679403945	0.00005	0.000282578
AT1G53140	3.75775	1.80307	-1.059413682	0.00005	0.000282578
AT1G53170	7.53834	16.1166	1.09622865	0.00005	0.000282578
AT1G53180	10.7905	13.4446	0.317265117	0.01585	0.0455283
AT1G53190	17.4772	21.4085	0.292709645	0.0164	0.0468459
AT1G53210	145.561	120.128	-0.277051407	0.0064	0.0211702
AT1G53240	194.893	145.047	-0.426161817	0.00005	0.000282578
AT1G53280	29.5462	60.4296	1.032282798	0.00005	0.000282578
AT1G53290	11.215	8.32996	-0.429048147	0.0016	0.00641937
AT1G53300	24.8232	20.397	-0.283332132	0.006	0.0200297
AT1G53310	98.4231	157.594	0.679143746	0.00005	0.000282578
AT1G53320	54.361	73.297	0.431182155	0.00005	0.000282578
AT1G53330	0.932072	1.78226	0.935194507	0.00045	0.00210009
AT1G53400	51.9745	33.0151	-0.654677959	0.00005	0.000282578
AT1G53430	38.0274	19.2962	-0.978722537	0.00005	0.000282578
AT1G53440	30.0365	19.6137	-0.614854996	0.00005	0.000282578
AT1G53510	37.3455	29.5608	-0.3372491	0.0009	0.00387377
AT1G53520	29.8825	15.1436	-0.980592641	0.00005	0.000282578
AT1G53560	23.6768	32.752	0.468108898	0.00005	0.000282578
AT1G53590	20.403	15.0253	-0.441387501	0.00005	0.000282578
AT1G53600	0.665548	1.49159	1.164236406	0.00005	0.000282578
AT1G53620	0.613401	3.1832	2.37557538	0.00445	0.0155271
AT1G53625	1.81768	7.98696	2.135548251	0.00005	0.000282578
AT1G53633	6.19424	2.95507	-1.067734977	0.01545	0.0445673
AT1G53645	15.3836	11.4804	-0.422220246	0.00045	0.00210009
AT1G53660	0.589292	0.186183	-1.662261332	0.00685	0.0224336
AT1G53670	139.138	78.6063	-0.82379964	0.00005	0.000282578
AT1G53700	5.19752	2.62614	-0.984879576	0.00005	0.000282578
AT1G53710	9.40924	11.7985	0.326453351	0.00895	0.028133
AT1G53780	28.5551	42.4915	0.573425836	0.00005	0.000282578
AT1G53790	1.44397	4.73794	1.71421916	0.00005	0.000282578
AT1G53800	33.9775	28.1485	-0.271521661	0.0131	0.0388035
AT1G53830	9.72648	6.36383	-0.612022493	0.00005	0.000282578
AT1G53840	43.858	33.9144	-0.370942055	0.00035	0.00167549
AT1G53850	46.628	37.1451	-0.32802464	0.00195	0.00762526
AT1G53860	0.71527	0.266268	-1.425608877	0.00945	0.0294592
AT1G54000	72.523	59.4002	-0.287970817	0.0049	0.016855

AT1G54050	4.46496	6.99501	0.647678869	0.0013	0.00534838
AT1G54080	68.4855	81.2721	0.246961605	0.0127	0.0378086
AT1G54115	11.7	16.1555	0.465516872	0.00005	0.000282578
AT1G54130	61.7653	33.3172	-0.890529393	0.00005	0.000282578
AT1G54160	1.48612	3.87972	1.384401923	0.0002	0.00101248
AT1G54217	7.72761	4.03486	-0.937503669	0.00005	0.000282578
AT1G54250	13.907	18.4747	0.4097397	0.00405	0.0143254
AT1G54260	6.234	8.47298	0.442711309	0.0097	0.0301176
AT1G54290	22.5806	34.4773	0.610562977	0.00005	0.000282578
AT1G54320	73.1252	94.7734	0.37411353	0.0005	0.00230701
AT1G54340	24.1067	32.8455	0.446261556	0.0001	0.000537698
AT1G54350	55.212	29.9876	-0.880615799	0.00005	0.000282578
AT1G54385	4.61953	2.15124	-1.102577591	0.00005	0.000282578
AT1G54410	2011.33	839.289	-1.260910227	0.00005	0.000282578
AT1G54520	82.5354	68.9121	-0.260255712	0.0085	0.0269248
AT1G54570	11.2041	18.128	0.694193001	0.00005	0.000282578
AT1G54575	20.4917	91.1135	2.152625154	0.00005	0.000282578
AT1G54580	135.254	76.3971	-0.824081481	0.00005	0.000282578
AT1G54610	36.101	28.4233	-0.344964736	0.0006	0.00271108
AT1G54630	117.058	81.8413	-0.516322568	0.00005	0.000282578
AT1G54680	4.68308	9.04052	0.948948074	0.00685	0.0224336
AT1G54740	40.7749	30.9818	-0.396260374	0.0004	0.00188925
AT1G54780	509.6	219.313	-1.216373946	0.00005	0.000282578
AT1G54820	28.3499	9.14831	-1.631766487	0.00005	0.000282578
AT1G54890	1.5588	2.44012	0.646516262	0.00865	0.0273357
AT1G54990	17.332	22.1727	0.355346318	0.0012	0.00498818
AT1G55020	15.2675	29.9316	0.971205555	0.00005	0.000282578
AT1G55110	14.8448	22.9371	0.627725343	0.00005	0.000282578
AT1G55140	36.5807	20.984	-0.80179297	0.00005	0.000282578
AT1G55160	31.137	24.7534	-0.33100325	0.0057	0.0191634
AT1G55200	3.017	1.25829	-1.261650236	0.00005	0.000282578
AT1G55210	59.738	136.997	1.197423458	0.00005	0.000282578
AT1G55260	88.2851	51.0369	-0.790629271	0.00005	0.000282578
AT1G55300	12.4099	8.62788	-0.524413474	0.0009	0.00387377
AT1G55310	36.8713	75.7153	1.038086575	0.00005	0.000282578
AT1G55330	36.4087	20.1896	-0.850670901	0.0077	0.0247988
AT1G55335	161.321	100.335	-0.685109303	0.00005	0.000282578
AT1G55340	32.4388	17.0437	-0.928481888	0.00075	0.0032996
AT1G55360	57.7449	76.0816	0.397854052	0.00005	0.000282578
AT1G55370	10.9747	8.25962	-0.410034189	0.0009	0.00387377
AT1G55380	0.801051	0.323051	-1.310132156	0.0019	0.00745613
AT1G55450	83.8715	48.0065	-0.804950901	0.00005	0.000282578
AT1G55520	23.7795	35.0622	0.560198141	0.00005	0.000282578
AT1G55530	18.1016	24.8661	0.45806303	0.00005	0.000282578
AT1G55540	5.73882	7.17197	0.321615329	0.00205	0.00796423
AT1G55550	1.7678	1.03026	-0.778946598	0.0004	0.00188925
AT1G55580	0.953206	0.448311	-1.088288134	0.00405	0.0143254

AT1G55610	1.9722	2.68783	0.446636031	0.00335	0.0121887
AT1G55670	720.403	193.761	-1.894525973	0.00005	0.000282578
AT1G55673	8372.25	2187.39	-1.936404924	0.00005	0.000282578
AT1G55680	56.2003	70.9178	0.33556995	0.00095	0.00406118
AT1G55750	10.5669	8.27733	-0.352314816	0.0047	0.0162675
AT1G55775	0.214295	3.01811	3.815975294	0.0064	0.0211702
AT1G55810	19.2715	24.14	0.324956808	0.0029	0.0107667
AT1G55850	25.0207	84.4661	1.755250288	0.00005	0.000282578
AT1G55910	9.93162	21.9394	1.143423104	0.00005	0.000282578
AT1G55930	8.61336	6.56544	-0.39168443	0.00475	0.0164173
AT1G55960	28.0042	21.8785	-0.356129386	0.0008	0.00349363
AT1G55970	4.29579	3.42333	-0.327523098	0.00995	0.030766
AT1G56000	7.10887	4.12216	-0.786219749	0.0055	0.0185914
AT1G56010	37.176	28.0071	-0.408578943	0.00045	0.00210009
AT1G56020	6.74047	4.30557	-0.646644947	0.00005	0.000282578
AT1G56045	103.583	77.2198	-0.423744525	0.0012	0.00498818
AT1G56090	6.64404	9.53862	0.5217198	0.00045	0.00210009
AT1G56120	1.43296	3.93268	1.456514461	0.00005	0.000282578
AT1G56145	6.96342	9.42032	0.435980025	0.0003	0.00145851
AT1G56210	7.64474	10.8067	0.499386699	0.0005	0.00230701
AT1G56220	826.746	433.428	-0.931651804	0.00005	0.000282578
AT1G56280	510.067	1018.78	0.998083873	0.00005	0.000282578
AT1G56330	138.71	114.918	-0.271467009	0.00645	0.0213006
AT1G56340	116.008	180.596	0.638541641	0.00005	0.000282578
AT1G56423	9.88041	12.9463	0.389897026	0.006	0.0200297
AT1G56440	5.88921	15.152	1.363362212	0.00005	0.000282578
AT1G56450	76.7946	56.4479	-0.444084958	0.0002	0.00101248
AT1G56510	9.21115	14.1342	0.617737037	0.00005	0.000282578
AT1G56600	1.30668	57.721	5.465118514	0.00005	0.000282578
AT1G56610	6.77285	9.12748	0.430453558	0.0007	0.00310863
AT1G56650	0.851076	2.56291	1.590422944	0.00005	0.000282578
AT1G56680	2.7485	1.64693	-0.738865242	0.0125	0.0373138
AT1G56700	57.8837	47.4282	-0.287412028	0.0078	0.0250675
AT1G56720	17.483	8.74452	-0.999501666	0.00005	0.000282578
AT1G57590	4.15657	10.3572	1.31716862	0.00005	0.000282578
AT1G57610	11.8004	8.89937	-0.407060649	0.00465	0.0161167
AT1G57630	0.60798	2.50018	2.039936194	0.0015	0.00606399
AT1G57660	173.876	138.254	-0.330737591	0.0011	0.00462106
AT1G57680	71.4705	50.5786	-0.498820777	0.00005	0.000282578
AT1G57770	34.604	13.9461	-1.311077082	0.00005	0.000282578
AT1G57820	11.4076	8.66357	-0.396961756	0.0014	0.00571151
AT1G57870	25.4208	16.0021	-0.667748187	0.00005	0.000282578
AT1G57943	0.754821	0.264513	-1.512795933	0.0109	0.0332243
AT1G57980	15.3673	7.4921	-1.036421648	0.00005	0.000282578
AT1G57990	65.9845	46.4307	-0.507048138	0.00005	0.000282578
AT1G58030	48.3991	72.1321	0.575661206	0.00005	0.000282578
AT1G58110	21.9899	30.3781	0.466190596	0.00005	0.000282578

AT1G58170	1.52804	3.52329	1.205240917	0.00005	0.000282578
AT1G58200	30.6333	19.9107	-0.621556848	0.00005	0.000282578
AT1G58210	6.56088	8.63637	0.396535719	0.01565	0.0450446
AT1G58235	28.9874	21.6402	-0.421712105	0.00035	0.00167549
AT1G58270	114.572	86.408	-0.407017716	0.00005	0.000282578
AT1G58280	20.376	51.7798	1.345518528	0.00005	0.000282578
AT1G58290	162.363	72.8107	-1.157000518	0.00005	0.000282578
AT1G58300	0.949251	0.091005	-3.382768726	0.0121	0.0363089
AT1G58320	1.77867	3.52255	0.985821315	0.0051	0.0174432
AT1G58350	12.2982	9.86894	-0.317480132	0.00505	0.0172987
AT1G58360	25.0949	35.8922	0.516276158	0.00005	0.000282578
AT1G58370	9.62859	7.83123	-0.298085627	0.012	0.0360547
AT1G58400	2.07954	3.35984	0.692128096	0.00005	0.000282578
AT1G58410	0.981041	1.47498	0.588310056	0.00825	0.0262625
AT1G58420	0.572836	1.31708	1.201148911	0.01775	0.0499963
AT1G58440	35.0493	27.483	-0.350846136	0.0012	0.00498818
AT1G58470	2.30785	4.3076	0.90033483	0.00005	0.000282578
AT1G58520	7.56931	11.539	0.608284503	0.00005	0.000282578
AT1G58848	2.87694	7.11562	1.306454334	0.00005	0.000282578
AT1G59218	1.46087	2.31996	0.66727213	0.00005	0.000282578
AT1G59540	4.92017	2.52135	-0.964511765	0.00005	0.000282578
AT1G59600	11.4522	6.81532	-0.748771468	0.00005	0.000282578
AT1G59620	3.40075	5.63916	0.729627324	0.00005	0.000282578
AT1G59640	1.30469	4.43782	1.766144095	0.00005	0.000282578
AT1G59660	1.93671	3.94089	1.024913538	0.00005	0.000282578
AT1G59700	22.5911	31.4441	0.477034823	0.00005	0.000282578
AT1G59730	3.17319	1.32973	-1.25480057	0.00645	0.0213006
AT1G59740	4.9562	8.71039	0.813502909	0.00005	0.000282578
AT1G59860	1.40963	7.58431	2.427701401	0.00005	0.000282578
AT1G59940	2.45674	4.54653	0.888020689	0.0004	0.00188925
AT1G59960	17.7521	32.9935	0.89419213	0.00005	0.000282578
AT1G60030	0.624287	1.26636	1.020406263	0.00065	0.00291062
AT1G60110	3.8396	0.917657	-2.064929111	0.00005	0.000282578
AT1G60140	54.6359	28.8811	-0.919723533	0.00005	0.000282578
AT1G60190	0.298776	0.67736	1.18085853	0.00375	0.0134211
AT1G60200	48.1704	37.551	-0.359295576	0.0006	0.00271108
AT1G60260	7.42053	33.0607	2.155523133	0.00005	0.000282578
AT1G60270	4.83507	8.87807	0.876709307	0.00005	0.000282578
AT1G60360	1.37781	0.4977	-1.469028662	0.0027	0.0101192
AT1G60390	5.41395	8.92331	0.720897397	0.00005	0.000282578
AT1G60440	14.53	23.1321	0.670861541	0.00005	0.000282578
AT1G60460	1.67835	0.863937	-0.958045587	0.0135	0.039819
AT1G60470	1.13947	3.57782	1.650717865	0.00005	0.000282578
AT1G60490	24.2079	20.3932	-0.247389759	0.01485	0.0431154
AT1G60550	52.7377	33.7445	-0.644182277	0.00005	0.000282578
AT1G60560	5.12335	3.82235	-0.422627565	0.0077	0.0247988
AT1G60590	2.40496	6.28783	1.386549314	0.00005	0.000282578



AT1G60600	27.2497	18.7262	-0.541182175	0.00005	0.000282578
AT1G60610	5.65905	10.1285	0.839788742	0.00005	0.000282578
AT1G60620	5.43423	7.04608	0.374745227	0.01335	0.0394316
AT1G60680	28.0877	19.1076	-0.555791911	0.00065	0.00291062
AT1G60690	7.18117	4.52578	-0.66605246	0.00045	0.00210009
AT1G60730	19.4571	24.4321	0.328481174	0.003	0.0110887
AT1G60780	63.0724	48.8317	-0.369190827	0.0001	0.000537698
AT1G60790	9.93037	5.79017	-0.778241766	0.00005	0.000282578
AT1G60800	48.4821	36.8919	-0.394148098	0.00015	0.000779873
AT1G60810	32.1481	19.3369	-0.733376947	0.00005	0.000282578
AT1G60960	15.4638	23.2598	0.588943808	0.00005	0.000282578
AT1G60989	32.7052	58.1278	0.82970827	0.0035	0.0126552
AT1G61010	18.0705	15.0197	-0.266780428	0.014	0.041048
AT1G61080	1.14191	0.749618	-0.607221448	0.0096	0.0298585
AT1G61100	44.2179	32.1406	-0.460233649	0.00005	0.000282578
AT1G61170	9.43497	5.46616	-0.787490241	0.00005	0.000282578
AT1G61180	11.659	14.7671	0.340942481	0.00175	0.00694124
AT1G61240	10.1822	7.79595	-0.385252566	0.0082	0.026125
AT1G61260	4.52513	6.69345	0.564790771	0.00035	0.00167549
AT1G61310	3.22566	4.33107	0.42512911	0.00245	0.0092976
AT1G61360	8.7106	11.4972	0.400438551	0.00425	0.0149278
AT1G61380	19.3744	15.5879	-0.313725051	0.00275	0.0102843
AT1G61390	0.272295	0.551639	1.018553965	0.00805	0.0257287
AT1G61400	0.824089	2.15204	1.384832834	0.00005	0.000282578
AT1G61410	0.996771	2.14707	1.107035227	0.00415	0.0146251
AT1G61420	1.55763	4.50151	1.531056449	0.00005	0.000282578
AT1G61430	4.18283	6.4741	0.630200285	0.00005	0.000282578
AT1G61450	3.20111	1.12749	-1.505457615	0.01025	0.0315592
AT1G61460	0.842352	1.32426	0.652691269	0.01355	0.0399444
AT1G61480	0.661952	1.8546	1.486309548	0.00005	0.000282578
AT1G61490	1.26145	2.06818	0.71327873	0.0004	0.00188925
AT1G61520	5336.45	1058.36	-2.334049886	0.00005	0.000282578
AT1G61560	6.10486	9.81877	0.685584098	0.00005	0.000282578
AT1G61570	15.5247	23.1391	0.575767362	0.00035	0.00167549
AT1G61580	13.2876	32.8757	1.306941064	0.00005	0.000282578
AT1G61590	13.6495	10.685	-0.353261196	0.0043	0.0150809
AT1G61730	29.2199	23.0391	-0.34286688	0.00235	0.00897001
AT1G61740	56.265	67.6965	0.266843483	0.009	0.0282735
AT1G61790	76.1086	105.071	0.465233147	0.0001	0.000537698
AT1G61800	1.18228	8.98494	2.925937119	0.00005	0.000282578
AT1G61810	3.04678	0.629122	-2.275873612	0.00005	0.000282578
AT1G61820	14.3267	8.89571	-0.687524677	0.00005	0.000282578
AT1G61890	12.1775	16.2066	0.412363475	0.00015	0.000779873
AT1G61900	25.4497	21.3065	-0.256355028	0.01455	0.0423789
AT1G61990	8.87958	11.4141	0.362253763	0.00425	0.0149278
AT1G62085	3.82868	2.17674	-0.81467799	0.00005	0.000282578
AT1G62150	2.11512	3.0248	0.516100238	0.00905	0.0284102

AT1G62180	74.1143	98.3296	0.407873844	0.00005	0.000282578
AT1G62250	20.1769	10.034	-1.007807691	0.00005	0.000282578
AT1G62262	0.533807	1.32644	1.313169289	0.00135	0.00552942
AT1G62280	2.10054	0.384616	-2.449269574	0.00005	0.000282578
AT1G62310	10.8987	14.4375	0.405664886	0.0001	0.000537698
AT1G62320	2.10096	1.33071	-0.658852494	0.0019	0.00745613
AT1G62330	16.3304	10.8206	-0.59377963	0.00005	0.000282578
AT1G62380	943.633	516.756	-0.868742638	0.00005	0.000282578
AT1G62390	41.1753	49.1759	0.256172295	0.0103	0.03169
AT1G62420	0.766667	1.43991	0.909306653	0.01755	0.0495297
AT1G62422	8.40739	19.0815	1.182444683	0.00005	0.000282578
AT1G62430	30.5779	24.3182	-0.330452884	0.0018	0.00711608
AT1G62440	5.15045	3.18328	-0.694184426	0.00005	0.000282578
AT1G62480	602.386	342.13	-0.816143627	0.00005	0.000282578
AT1G62500	10.3728	6.74163	-0.621636028	0.00005	0.000282578
AT1G62590	3.00871	5.58997	0.893695484	0.00005	0.000282578
AT1G62660	93.6762	78.7777	-0.249895257	0.01485	0.0431154
AT1G62710	2.88694	4.99172	0.789995888	0.00005	0.000282578
AT1G62730	3.90838	6.49491	0.732738791	0.0001	0.000537698
AT1G62750	193.114	235.773	0.287945757	0.01105	0.0336205
AT1G62770	26.4728	11.2285	-1.237345582	0.00005	0.000282578
AT1G62780	98.6817	67.0464	-0.557622699	0.00005	0.000282578
AT1G62810	10.1551	13.6997	0.431939855	0.00005	0.000282578
AT1G62850	27.8609	21.2282	-0.392259816	0.00695	0.0227126
AT1G62870	0.906624	2.28658	1.334615138	0.00005	0.000282578
AT1G62880	10.7866	14.9264	0.468626063	0.0029	0.0107667
AT1G62910	1.12871	2.28513	1.01760138	0.00005	0.000282578
AT1G62960	23.387	17.4199	-0.424970468	0.0008	0.00349363
AT1G63020	1.55017	2.01148	0.375830956	0.0146	0.0424952
AT1G63050	8.79073	6.12636	-0.520952829	0.00035	0.00167549
AT1G63090	11.5667	26.1957	1.179352694	0.00005	0.000282578
AT1G63100	5.40408	2.20318	-1.294461664	0.00005	0.000282578
AT1G63120	18.292	14.1094	-0.374556185	0.00155	0.00624225
AT1G63150	1.17212	3.32993	1.506371572	0.00005	0.000282578
AT1G63220	29.1322	13.9428	-1.063094342	0.00005	0.000282578
AT1G63240	9.68939	7.17645	-0.433135486	0.00055	0.00251246
AT1G63250	2.11988	3.2955	0.63651477	0.0001	0.000537698
AT1G63260	13.8512	7.6927	-0.848449017	0.00005	0.000282578
AT1G63300	6.67728	2.94871	-1.179176595	0.00005	0.000282578
AT1G63410	3.08708	0.98218	-1.65218352	0.00175	0.00694124
AT1G63460	27.047	36.2737	0.423455329	0.01215	0.0364357
AT1G63470	12.5151	7.67668	-0.705115403	0.00015	0.000779873
AT1G63530	2.31571	4.4444	0.940534073	0.00005	0.000282578
AT1G63610	30.8148	20.9941	-0.553639485	0.00005	0.000282578
AT1G63660	15.1001	18.1454	0.265045756	0.01565	0.0450446
AT1G63670	11.9583	7.94077	-0.590661495	0.00005	0.000282578
AT1G63680	23.5734	15.7575	-0.581121191	0.00005	0.000282578

AT1G63690	55.8852	34.9227	-0.678301163	0.00005	0.000282578
AT1G63730	1.81082	2.89303	0.675938138	0.00015	0.000779873
AT1G63740	3.30129	4.93236	0.579248225	0.0001	0.000537698
AT1G63750	6.31695	7.80369	0.304928315	0.0084	0.0266576
AT1G63780	14.3864	19.0442	0.404646063	0.0017	0.00676327
AT1G63800	89.0992	71.4334	-0.318813688	0.00205	0.00796423
AT1G63810	6.17266	9.19583	0.575087468	0.00005	0.000282578
AT1G63830	48.6416	38.4112	-0.340663649	0.0019	0.00745613
AT1G63840	10.9661	19.6901	0.844419904	0.00005	0.000282578
AT1G63850	14.5266	9.93458	-0.548166193	0.00005	0.000282578
AT1G63940	79.5922	44.5019	-0.838760121	0.00005	0.000282578
AT1G63970	109.496	74.8109	-0.549557775	0.00005	0.000282578
AT1G64040	38.6209	31.3048	-0.3029979	0.00325	0.0118728
AT1G64065	3.10313	4.38379	0.498454552	0.0161	0.0461351
AT1G64090	56.1471	41.7349	-0.427957195	0.0001	0.000537698
AT1G64105	10.5661	21.0022	0.99109749	0.00005	0.000282578
AT1G64140	41.788	67.5945	0.693817151	0.00005	0.000282578
AT1G64150	25.7846	12.5747	-1.035985684	0.00005	0.000282578
AT1G64170	20.8329	16.1656	-0.365936625	0.00055	0.00251246
AT1G64190	45.3406	36.3045	-0.320655099	0.00135	0.00552942
AT1G64200	47.0316	81.6103	0.795120833	0.00005	0.000282578
AT1G64210	1.16569	1.76016	0.594522403	0.01185	0.0356661
AT1G64253	0.569481	1.44805	1.346391804	0.0159	0.0456527
AT1G64360	4.72803	21.8699	2.209635529	0.00005	0.000282578
AT1G64400	11.197	25.2588	1.173673857	0.00005	0.000282578
AT1G64430	38.512	54.9762	0.513499143	0.00005	0.000282578
AT1G64440	16.816	24.5787	0.547574037	0.00005	0.000282578
AT1G64500	11.9514	22.3438	0.902694938	0.00005	0.000282578
AT1G64510	404.785	190.384	-1.088243591	0.00005	0.000282578
AT1G64530	13.8268	8.23738	-0.747209857	0.00005	0.000282578
AT1G64590	23.2696	67.2102	1.530233786	0.00005	0.000282578
AT1G64600	3.59196	5.96748	0.732350542	0.0005	0.00230701
AT1G64610	2.91129	5.54699	0.930046568	0.00005	0.000282578
AT1G64620	2.26314	3.39844	0.586546818	0.001	0.00425239
AT1G64640	38.0341	20.1303	-0.917924794	0.0001	0.000537698
AT1G64650	54.9437	36.6401	-0.584530626	0.00005	0.000282578
AT1G64660	14.9752	23.1798	0.630292848	0.00005	0.000282578
AT1G64670	19.0085	12.7065	-0.581077995	0.0029	0.0107667
AT1G64680	80.0187	128.854	0.687328228	0.00005	0.000282578
AT1G64740	33.2045	20.7635	-0.677329122	0.00005	0.000282578
AT1G64770	51.1744	64.6035	0.336190045	0.0005	0.00230701
AT1G64780	15.095	37.0103	1.293856073	0.00005	0.000282578
AT1G64810	12.2504	18.6174	0.603822752	0.00005	0.000282578
AT1G64860	65.2131	37.1275	-0.812673628	0.00005	0.000282578
AT1G64890	7.97681	5.33567	-0.580142473	0.00005	0.000282578
AT1G64900	54.0201	65.2886	0.273334795	0.0051	0.0174432
AT1G64920	1.17846	0.632364	-0.898075647	0.0096	0.0298585

AT1G64950	30.7877	69.4645	1.173921779	0.00005	0.000282578
AT1G64970	6.5818	13.1407	0.997488036	0.00005	0.000282578
AT1G64990	16.4579	20.679	0.329386159	0.00365	0.0131214
AT1G65000	7.7503	11.7501	0.600348974	0.0008	0.00349363
AT1G65010	28.6042	22.7815	-0.328364254	0.0032	0.0117121
AT1G65040	20.356	43.0838	1.081691405	0.00005	0.000282578
AT1G65060	2.71524	9.12402	1.748589886	0.00005	0.000282578
AT1G65070	12.6575	17.4376	0.462209006	0.00005	0.000282578
AT1G65080	2.6652	4.23846	0.669296373	0.0008	0.00349363
AT1G65120	0.368129	1.12223	1.608085075	0.00005	0.000282578
AT1G65150	2.37628	4.53073	0.931038678	0.00005	0.000282578
AT1G65190	30.1205	61.6926	1.03435173	0.00005	0.000282578
AT1G65220	62.5088	49.7618	-0.329020635	0.00105	0.00443869
AT1G65230	120.575	88.9866	-0.4382708	0.00005	0.000282578
AT1G65260	173.413	100.596	-0.785639115	0.00005	0.000282578
AT1G65270	60.1631	47.7226	-0.334206261	0.00145	0.00588787
AT1G65295	29.149	20.4531	-0.511126867	0.00005	0.000282578
AT1G65310	32.5582	23.6721	-0.459833245	0.00005	0.000282578
AT1G65320	14.6372	20.5336	0.488346984	0.00005	0.000282578
AT1G65370	10.8456	22.4159	1.047412557	0.00005	0.000282578
AT1G65390	7.52716	0.907854	-3.051573429	0.00005	0.000282578
AT1G65450	2.32998	0.928739	-1.326972448	0.0001	0.000537698
AT1G65470	4.35598	2.56343	-0.764921828	0.00005	0.000282578
AT1G65481	0.230226	2.3819	3.37099017	0.0006	0.00271108
AT1G65484	2.05137	11.6344	2.503737176	0.00005	0.000282578
AT1G65486	33.1698	146.617	2.144110173	0.00005	0.000282578
AT1G65490	12.8712	53.8307	2.064282622	0.00005	0.000282578
AT1G65500	5.71834	62.8701	3.458705751	0.00005	0.000282578
AT1G65510	19.7875	37.5669	0.92487272	0.00005	0.000282578
AT1G65560	3.69957	8.08776	1.12838259	0.00005	0.000282578
AT1G65570	2.89616	0.838308	-1.788589005	0.00005	0.000282578
AT1G65590	30.0579	23.7713	-0.338523415	0.0016	0.00641937
AT1G65610	7.17481	11.4287	0.671648776	0.00005	0.000282578
AT1G65620	2.83877	4.4885	0.66096743	0.0055	0.0185914
AT1G65690	9.29105	18.3276	0.980104325	0.00005	0.000282578
AT1G65700	12.6244	17.4346	0.465738442	0.0025	0.00945953
AT1G65710	3.4363	1.75478	-0.969565825	0.00005	0.000282578
AT1G65720	80.2254	118.568	0.563583714	0.00005	0.000282578
AT1G65790	0.369119	4.18809	3.50413454	0.00005	0.000282578
AT1G65800	16.6092	37.3385	1.168681385	0.00005	0.000282578
AT1G65820	143.512	205.853	0.520443099	0.00005	0.000282578
AT1G65840	45.9666	101.525	1.143177164	0.00005	0.000282578
AT1G65845	69.0444	127.971	0.890220601	0.00005	0.000282578
AT1G65910	0.711064	0.382589	-0.894184022	0.0139	0.0408016
AT1G65930	324.528	238.476	-0.444498876	0.00005	0.000282578
AT1G65960	381.633	213.595	-0.837308052	0.00005	0.000282578
AT1G65980	191.321	276.6	0.531805919	0.00005	0.000282578

AT1G66020	0.366625	1.28508	1.809481103	0.00005	0.000282578
AT1G66050	0.920902	0.216542	-2.088400763	0.00015	0.000779873
AT1G66080	3.84355	7.79142	1.01944685	0.00005	0.000282578
AT1G66090	2.15029	3.43149	0.674303908	0.00145	0.00588787
AT1G66100	84.8629	3.78065	-4.48842778	0.00005	0.000282578
AT1G66140	13.1568	16.4185	0.319513689	0.0117	0.0352839
AT1G66150	44.5538	25.5355	-0.803044177	0.00005	0.000282578
AT1G66180	123.074	241.822	0.974419484	0.00005	0.000282578
AT1G66240	155.438	196.196	0.335956385	0.0084	0.0266576
AT1G66270	118.44	85.2429	-0.474504815	0.00005	0.000282578
AT1G66280	53.2614	41.4646	-0.361210176	0.0002	0.00101248
AT1G66330	51.2839	29.3198	-0.806630717	0.00005	0.000282578
AT1G66350	2.72588	5.19937	0.931614772	0.00005	0.000282578
AT1G66390	0.132147	17.6097	7.058082848	0.0054	0.0183008
AT1G66430	66.8636	27.6948	-1.271605913	0.00005	0.000282578
AT1G66460	0.646727	0.14535	-2.153625771	0.00705	0.0229904
AT1G66465	0.558566	3.19754	2.517162742	0.00005	0.000282578
AT1G66500	2.04165	3.76425	0.882626881	0.00005	0.000282578
AT1G66540	1.89148	4.96596	1.392557119	0.00005	0.000282578
AT1G66590	3.28912	9.82665	1.578998027	0.00005	0.000282578
AT1G66600	0	0.92233	inf	0.00005	0.000282578
AT1G66660	4.34856	7.04052	0.695144248	0.00015	0.000779873
AT1G66680	24.6365	17.5192	-0.491860416	0.00005	0.000282578
AT1G66700	0.784091	2.7046	1.786322235	0.00005	0.000282578
AT1G66730	6.9118	5.27763	-0.389171261	0.00105	0.00443869
AT1G66800	5.02779	8.23086	0.711118786	0.0001	0.000537698
AT1G66810	1.90369	0.836241	-1.186807883	0.0007	0.00310863
AT1G66830	6.49025	8.0099	0.30351018	0.01205	0.0361766
AT1G66840	6.44992	11.0425	0.775713661	0.00005	0.000282578
AT1G66880	6.41054	15.0658	1.232759488	0.00005	0.000282578
AT1G66900	17.6892	10.2589	-0.785992755	0.00005	0.000282578
AT1G66910	7.01705	14.7337	1.070183225	0.00005	0.000282578
AT1G66920	9.60953	22.3153	1.215495426	0.00005	0.000282578
AT1G66940	49.7755	26.7115	-0.897974814	0.00005	0.000282578
AT1G66960	0.146002	0.893063	2.61277382	0.00005	0.000282578
AT1G66970	53.9662	73.1178	0.438166558	0.00005	0.000282578
AT1G67000	0.101888	0.499469	2.293410993	0.0005	0.00230701
AT1G67040	2.9487	2.21074	-0.415549687	0.00895	0.028133
AT1G67050	18.3433	13.475	-0.444967933	0.00025	0.00123846
AT1G67070	2.49919	4.46558	0.837386982	0.00025	0.00123846
AT1G67080	25.5819	17.9955	-0.507487231	0.00005	0.000282578
AT1G67090	12079.4	5274.2	-1.195524611	0.00005	0.000282578
AT1G67120	1.86879	3.73152	0.997658959	0.00005	0.000282578
AT1G67170	9.93824	7.05648	-0.494041682	0.00045	0.00210009
AT1G67180	1.34733	0.718284	-0.907476967	0.00395	0.0140308
AT1G67280	154.454	111.43	-0.471039536	0.00005	0.000282578
AT1G67300	11.7653	15.9407	0.438176876	0.00075	0.0032996

AT1G67325	27.7775	21.5597	-0.365579658	0.0019	0.00745613
AT1G67330	32.985	20.1117	-0.71377507	0.00005	0.000282578
AT1G67360	12.5931	38.0179	1.594045374	0.00005	0.000282578
AT1G67370	0.766909	3.20691	2.064056561	0.00005	0.000282578
AT1G67400	8.19477	4.99501	-0.714215892	0.0077	0.0247988
AT1G67420	3.02358	2.27593	-0.409801565	0.0124	0.037054
AT1G67430	431.229	294.421	-0.550573625	0.00005	0.000282578
AT1G67460	1.00666	0.387822	-1.376109944	0.00085	0.00368886
AT1G67470	3.64864	7.52953	1.045201002	0.00005	0.000282578
AT1G67500	2.86537	3.7113	0.373203181	0.0019	0.00745613
AT1G67560	16.6213	20.7923	0.323016131	0.00175	0.00694124
AT1G67600	4.50741	13.2396	1.554488945	0.00005	0.000282578
AT1G67630	6.19826	4.52997	-0.452361777	0.0021	0.00813349
AT1G67650	1.4291	3.8884	1.444069765	0.00005	0.000282578
AT1G67680	32.6948	25.0875	-0.382092486	0.00005	0.000282578
AT1G67690	4.78718	3.71417	-0.366136203	0.0138	0.0405566
AT1G67700	331.598	136.818	-1.277177259	0.00005	0.000282578
AT1G67710	5.20437	3.9756	-0.388550924	0.0111	0.0337467
AT1G67730	60.6425	49.9145	-0.280870255	0.0054	0.0183008
AT1G67740	1765.02	577.462	-1.611886613	0.00005	0.000282578
AT1G67785	105.79	86.6285	-0.288289619	0.00715	0.0232695
AT1G67800	10.277	12.9257	0.33082323	0.00825	0.0262625
AT1G67810	6.8064	55.2971	3.022239978	0.00005	0.000282578
AT1G67840	37.5038	29.8366	-0.329953637	0.0015	0.00606399
AT1G67850	5.83482	8.02398	0.459629859	0.00235	0.00897001
AT1G67860	35.7708	105.456	1.559786892	0.00005	0.000282578
AT1G67865	36.893	47.2324	0.356429736	0.00365	0.0131214
AT1G67870	382.59	245.97	-0.637316799	0.00005	0.000282578
AT1G67880	5.87571	9.37417	0.673927766	0.00005	0.000282578
AT1G67900	20.2744	11.9403	-0.763820135	0.00005	0.000282578
AT1G67910	21.4285	14.449	-0.568561216	0.0002	0.00101248
AT1G67920	8.55824	26.951	1.654952762	0.001	0.00425239
AT1G67930	16.0497	11.1589	-0.524351512	0.00005	0.000282578
AT1G67940	12.638	18.267	0.531471548	0.0103	0.03169
AT1G67950	15.6872	10.7521	-0.544969408	0.00585	0.0195962
AT1G67970	8.48646	10.794	0.346994807	0.0097	0.0301176
AT1G68000	34.3606	24.1353	-0.509610469	0.00005	0.000282578
AT1G68020	17.179	9.66507	-0.829793972	0.00005	0.000282578
AT1G68060	38.5923	23.3544	-0.724618646	0.00005	0.000282578
AT1G68130	9.54992	12.9686	0.441462192	0.00035	0.00167549
AT1G68185	10.9658	7.68824	-0.512285789	0.00135	0.00552942
AT1G68190	27.3421	11.3444	-1.269143745	0.00005	0.000282578
AT1G68238	24.1441	12.9526	-0.898428964	0.0002	0.00101248
AT1G68260	28.5378	17.5668	-0.700022709	0.00005	0.000282578
AT1G68300	63.6372	102.923	0.69362315	0.00005	0.000282578
AT1G68310	24.0638	19.1202	-0.331766867	0.01265	0.03769
AT1G68320	0.299627	1.26056	2.07282525	0.0008	0.00349363

AT1G68340	2.20404	4.3391	0.977245428	0.00005	0.000282578
AT1G68360	0.88289	1.78339	1.014316625	0.00775	0.0249349
AT1G68400	13.9361	6.97402	-0.998764475	0.00005	0.000282578
AT1G68440	24.3729	52.0237	1.09389109	0.00005	0.000282578
AT1G68470	3.03444	4.16504	0.456900056	0.01135	0.0343831
AT1G68520	71.1744	51.1772	-0.475857209	0.00005	0.000282578
AT1G68530	403.258	242.856	-0.731602024	0.00005	0.000282578
AT1G68560	158.715	75.9257	-1.063778273	0.00005	0.000282578
AT1G68590	297.6	141.701	-1.070524587	0.00005	0.000282578
AT1G68600	7.71057	19.211	1.317023199	0.00005	0.000282578
AT1G68620	4.87738	17.5242	1.845170302	0.00005	0.000282578
AT1G68660	85.6914	127.709	0.575637872	0.00005	0.000282578
AT1G68670	39.6016	64.6722	0.707586969	0.00005	0.000282578
AT1G68740	9.92628	24.1804	1.284513055	0.00005	0.000282578
AT1G68760	12.8097	23.9113	0.90045588	0.00005	0.000282578
AT1G68780	10.7168	5.34942	-1.002419802	0.00005	0.000282578
AT1G68830	93.6328	46.0809	-1.022845107	0.00005	0.000282578
AT1G68850	7.47442	11.8594	0.665997483	0.00005	0.000282578
AT1G68870	9.75759	5.5229	-0.821098859	0.00895	0.028133
AT1G68880	2.39832	3.75564	0.647034613	0.0081	0.0258615
AT1G68930	0.968369	1.80055	0.894808862	0.0002	0.00101248
AT1G68940	5.06747	3.65494	-0.47141792	0.00055	0.00251246
AT1G68990	6.93519	10.4283	0.588496679	0.00005	0.000282578
AT1G69020	2.36038	0.893458	-1.401547322	0.0009	0.00387377
AT1G69030	23.1021	17.128	-0.431667299	0.0005	0.00230701
AT1G69040	21.939	11.8327	-0.890718461	0.00005	0.000282578
AT1G69160	34.1652	15.4773	-1.142373756	0.00005	0.000282578
AT1G69210	3.02615	4.45931	0.559336995	0.0138	0.0405566
AT1G69240	2.60296	3.72794	0.518225499	0.0076	0.024527
AT1G69270	5.56753	9.12813	0.713281911	0.00005	0.000282578
AT1G69295	24.4152	36.0943	0.563991429	0.00005	0.000282578
AT1G69360	8.50336	5.21301	-0.70591639	0.00005	0.000282578
AT1G69370	11.7764	7.06701	-0.736726725	0.00005	0.000282578
AT1G69390	59.9279	40.715	-0.557667417	0.00005	0.000282578
AT1G69410	45.6502	61.0503	0.419377204	0.00005	0.000282578
AT1G69420	27.73	18.5819	-0.577549591	0.00005	0.000282578
AT1G69440	2.38888	3.23488	0.43737781	0.004	0.0141788
AT1G69480	0.347605	1.18795	1.772953376	0.00005	0.000282578
AT1G69510	153.742	187.484	0.286256139	0.00465	0.0161167
AT1G69523	8.13694	5.0497	-0.688288672	0.0084	0.0266576
AT1G69530	178.377	71.6915	-1.315055622	0.00005	0.000282578
AT1G69550	6.17796	8.11759	0.393920945	0.0004	0.00188925
AT1G69570	5.14052	7.62032	0.567937276	0.00015	0.000779873
AT1G69610	2.33918	3.82945	0.71113432	0.00015	0.000779873
AT1G69620	299.391	206.823	-0.533634222	0.00005	0.000282578
AT1G69680	4.03493	5.84693	0.535135674	0.0056	0.0188774
AT1G69700	27.9635	14.2745	-0.970104732	0.00005	0.000282578

AT1G69720	0.747589	5.374	2.845679075	0.00005	0.000282578
AT1G69730	5.0003	15.9888	1.676975106	0.00005	0.000282578
AT1G69740	145.565	76.7088	-0.924199514	0.00005	0.000282578
AT1G69750	12.4254	16.5183	0.410772922	0.00165	0.00658915
AT1G69830	118.916	67.4122	-0.818861227	0.00005	0.000282578
AT1G69840	24.6363	34.4894	0.48536743	0.00005	0.000282578
AT1G69870	24.2711	58.8926	1.278846872	0.00005	0.000282578
AT1G69900	8.04752	5.90653	-0.44623344	0.00325	0.0118728
AT1G69930	0.141205	8.10269	5.842537866	0.00185	0.00728767
AT1G69935	17.0778	27.0174	0.661766709	0.00005	0.000282578
AT1G70000	5.66659	22.8187	2.009663876	0.00005	0.000282578
AT1G70060	15.6754	11.0106	-0.50960917	0.00005	0.000282578
AT1G70070	21.759	13.1268	-0.72909699	0.00005	0.000282578
AT1G70100	23.883	13.6346	-0.808711692	0.00005	0.000282578
AT1G70140	3.92916	8.09546	1.042892142	0.00005	0.000282578
AT1G70180	16.6854	24.8039	0.571980705	0.00005	0.000282578
AT1G70200	33.6268	23.8871	-0.493379781	0.00005	0.000282578
AT1G70230	16.617	11.8564	-0.486993918	0.00005	0.000282578
AT1G70250	4.0362	11.684	1.533464694	0.00005	0.000282578
AT1G70290	42.5672	28.7038	-0.568500452	0.00005	0.000282578
AT1G70300	18.7568	27.1881	0.535561616	0.00005	0.000282578
AT1G70310	64.1639	52.7177	-0.283474405	0.00445	0.0155271
AT1G70370	62.4319	52.4222	-0.252105472	0.0122	0.0365526
AT1G70410	128.754	106.041	-0.279995073	0.0064	0.0211702
AT1G70420	29.7136	12.6331	-1.233914707	0.00005	0.000282578
AT1G70440	0.442119	1.42911	1.692610326	0.0051	0.0174432
AT1G70490	176.112	134.012	-0.394131024	0.0003	0.00145851
AT1G70505	2.969	4.16883	0.489665449	0.0102	0.0314297
AT1G70560	19.5959	13.4778	-0.539966812	0.0001	0.000537698
AT1G70570	28.4161	20.9543	-0.439462236	0.00005	0.000282578
AT1G70580	26.7997	20.7998	-0.365647195	0.00095	0.00406118
AT1G70590	10.9945	13.8007	0.327959449	0.0099	0.0306393
AT1G70610	17.9064	11.6719	-0.617435891	0.00005	0.000282578
AT1G70630	3.12663	1.29524	-1.271389058	0.00005	0.000282578
AT1G70640	0.109075	0.594721	2.446892545	0.0059	0.019741
AT1G70690	11.2578	20.4978	0.864544152	0.00005	0.000282578
AT1G70700	16.1299	35.7725	1.149113452	0.00005	0.000282578
AT1G70730	60.0122	88.4957	0.560351538	0.00005	0.000282578
AT1G70740	8.14541	10.3355	0.34354896	0.0087	0.0274711
AT1G70760	259.541	178.27	-0.54189852	0.0008	0.00349363
AT1G70810	23.2022	36.4303	0.650877269	0.00005	0.000282578
AT1G70820	149.233	56.936	-1.390153549	0.00005	0.000282578
AT1G70830	384.855	701.723	0.866586659	0.00005	0.000282578
AT1G70850	1000.36	754.788	-0.406375885	0.00015	0.000779873
AT1G70860	3.82056	0.998983	-1.935252085	0.00005	0.000282578
AT1G70880	18.5491	11.0852	-0.74271439	0.00005	0.000282578
AT1G70890	352.802	580.524	0.718496973	0.00005	0.000282578



AT1G70900	27.1879	64.2144	1.239932135	0.00005	0.000282578
AT1G70940	38.7474	46.5438	0.264489495	0.0076	0.024527
AT1G70980	11.0417	20.3059	0.878936663	0.00005	0.000282578
AT1G70985	15.5054	7.94416	-0.964804159	0.00005	0.000282578
AT1G70990	5.56158	8.97737	0.690798057	0.00075	0.0032996
AT1G71020	24.2749	12.6631	-0.938834724	0.00005	0.000282578
AT1G71030	176.786	32.4276	-2.446709872	0.00005	0.000282578
AT1G71040	34.3963	57.6916	0.746107892	0.00005	0.000282578
AT1G71100	10.0098	16.8973	0.75537959	0.00005	0.000282578
AT1G71110	3.40266	8.13331	1.257179601	0.00005	0.000282578
AT1G71130	17.7778	32.1643	0.855383489	0.00005	0.000282578
AT1G71140	3.15781	6.44987	1.030345713	0.00005	0.000282578
AT1G71170	10.0107	14.2491	0.50932794	0.0001	0.000537698
AT1G71200	2.89441	5.1189	0.822564525	0.00005	0.000282578
AT1G71210	4.55043	6.50641	0.515858855	0.0001	0.000537698
AT1G71260	19.6538	34.0271	0.791875921	0.00005	0.000282578
AT1G71330	1.81801	3.67546	1.015564686	0.00125	0.00516712
AT1G71340	9.58059	13.9717	0.544321162	0.00005	0.000282578
AT1G71380	0.651351	1.35044	1.051922445	0.00155	0.00624225
AT1G71400	6.65311	10.7991	0.698810291	0.00005	0.000282578
AT1G71410	29.4135	21.9996	-0.419001172	0.00005	0.000282578
AT1G71440	13.0607	9.70168	-0.428925722	0.0019	0.00745613
AT1G71460	3.6276	7.16396	0.981741897	0.00005	0.000282578
AT1G71500	268.35	197.104	-0.445158834	0.00005	0.000282578
AT1G71520	0.180922	1.33925	2.887985542	0.0066	0.0217257
AT1G71696	8.79704	15.7565	0.840857027	0.00005	0.000282578
AT1G71697	13.7151	10.1877	-0.428936759	0.0005	0.00230701
AT1G71710	21.9471	18.1661	-0.272781594	0.00975	0.0302521
AT1G71790	10.876	15.4294	0.504533905	0.00045	0.00210009
AT1G71820	43.1517	35.917	-0.264750544	0.0081	0.0258615
AT1G71850	4.34325	6.01573	0.469964819	0.00555	0.0187351
AT1G71880	40.1474	95.0738	1.243741265	0.00005	0.000282578
AT1G71890	0.813813	0.242814	-1.744845721	0.0016	0.00641937
AT1G71900	16.0079	12.9383	-0.30713599	0.00925	0.0289277
AT1G71910	1.8346	3.41484	0.896352439	0.0011	0.00462106
AT1G71930	0.778559	0.283597	-1.456964101	0.0071	0.0231313
AT1G71960	7.28596	12.2646	0.751309203	0.00005	0.000282578
AT1G71970	42.7653	25.5061	-0.745598339	0.00005	0.000282578
AT1G71980	47.9432	32.4949	-0.561112898	0.00005	0.000282578
AT1G72020	162.807	115.725	-0.492462168	0.00005	0.000282578
AT1G72030	19.9608	33.5244	0.748041969	0.0039	0.0138733
AT1G72070	11.0276	15.5485	0.495656564	0.0122	0.0365526
AT1G72090	14.8661	19.4333	0.38650469	0.00065	0.00291062
AT1G72120	2.40596	6.80437	1.499848935	0.00005	0.000282578
AT1G72130	31.3095	23.9492	-0.386623004	0.0004	0.00188925
AT1G72150	530.229	333.063	-0.670820484	0.00005	0.000282578
AT1G72160	130.683	64.8866	-1.010079002	0.00005	0.000282578

AT1G72180	36.4576	25.7793	-0.500006502	0.00005	0.000282578
AT1G72250	3.87796	2.49997	-0.63338714	0.00005	0.000282578
AT1G72280	1.98481	4.45235	1.165566099	0.00005	0.000282578
AT1G72300	6.12691	10.3946	0.762602678	0.00005	0.000282578
AT1G72330	9.56572	13.0619	0.449419301	0.00715	0.0232695
AT1G72340	24.9621	16.8339	-0.568369857	0.00065	0.00291062
AT1G72370	331.488	230.146	-0.526407277	0.00005	0.000282578
AT1G72410	19.4146	15.0833	-0.36418988	0.0005	0.00230701
AT1G72416	16.9963	35.1455	1.048119266	0.00005	0.000282578
AT1G72420	4.31307	6.73425	0.642802149	0.0006	0.00271108
AT1G72450	22.9039	27.7839	0.278655847	0.01095	0.033356
AT1G72470	4.86951	6.21218	0.351323026	0.012	0.0360547
AT1G72490	0.83847	1.6858	1.007602317	0.0016	0.00641937
AT1G72510	59.9208	111.359	0.894089371	0.00005	0.000282578
AT1G72520	1.23872	5.3701	2.116098836	0.00005	0.000282578
AT1G72540	0.414599	1.06679	1.363487665	0.0038	0.0135703
AT1G72550	41.5143	33.3066	-0.317800284	0.00255	0.00962703
AT1G72610	1060.09	541.232	-0.969867707	0.00005	0.000282578
AT1G72645	32.9735	53.1225	0.688016012	0.00005	0.000282578
AT1G72650	17.3152	27.9454	0.690571774	0.00005	0.000282578
AT1G72660	0.170224	3.48798	4.356885405	0.0004	0.00188925
AT1G72670	4.96383	2.48198	-0.999962217	0.0001	0.000537698
AT1G72690	11.5033	17.8748	0.635879307	0.00225	0.00863481
AT1G72710	104.53	77.2476	-0.436355038	0.00005	0.000282578
AT1G72730	12.0098	6.41578	-0.904515549	0.00005	0.000282578
AT1G72740	24.0295	29.281	0.285158196	0.0109	0.0332243
AT1G72750	43.4616	55.0979	0.342256046	0.0009	0.00387377
AT1G72770	10.7227	23.4564	1.129313386	0.00005	0.000282578
AT1G72800	1.00529	3.37877	1.748886405	0.00895	0.028133
AT1G72810	10.0574	15.8671	0.65778108	0.00005	0.000282578
AT1G72830	3.56142	7.17629	1.010785609	0.00005	0.000282578
AT1G72880	24.0929	19.2055	-0.327088534	0.00365	0.0131214
AT1G72890	11.5548	24.8935	1.107276797	0.00005	0.000282578
AT1G72900	16.4913	41.0687	1.31633415	0.00005	0.000282578
AT1G72910	1.88509	15.6553	3.053945846	0.00005	0.000282578
AT1G72920	1.95093	7.08186	1.859966309	0.00005	0.000282578
AT1G72930	30.5905	73.8653	1.271813095	0.00005	0.000282578
AT1G72940	3.86974	9.1309	1.238520431	0.00005	0.000282578
AT1G72970	35.532	29.4376	-0.271458841	0.00835	0.0265257
AT1G73000	0.24956	0.84375	1.757428883	0.0165	0.0470756
AT1G73010	25.8292	239.966	3.215755144	0.00005	0.000282578
AT1G73030	112.954	87.7543	-0.364193636	0.00075	0.0032996
AT1G73110	42.9758	26.9367	-0.673951378	0.00005	0.000282578
AT1G73120	39.2251	599.539	3.934004574	0.00005	0.000282578
AT1G73130	3.39532	4.97839	0.552131702	0.0019	0.00745613
AT1G73150	3.49269	4.5334	0.376254862	0.0175	0.0494159
AT1G73170	34.9749	43.0791	0.300668177	0.00335	0.0121887

AT1G73220	13.1924	24.0743	0.867786802	0.00545	0.0184447
AT1G73230	194.727	149.533	-0.380989032	0.00455	0.015822
AT1G73260	40.9137	100.335	1.294169034	0.00005	0.000282578
AT1G73300	3.30231	0.980186	-1.752348112	0.00125	0.00516712
AT1G73325	0	2.8733	inf	0.00005	0.000282578
AT1G73330	869.284	1374.33	0.660828966	0.00005	0.000282578
AT1G73350	19.6592	14.6516	-0.424146395	0.0017	0.00676327
AT1G73370	3.52606	1.85767	-0.924562783	0.00005	0.000282578
AT1G73440	5.81115	7.85162	0.434166657	0.00535	0.0181609
AT1G73450	4.55684	3.32677	-0.453911588	0.00055	0.00251246
AT1G73470	39.203	18.5408	-1.080260566	0.00005	0.000282578
AT1G73480	19.7035	4.32688	-2.187052908	0.00005	0.000282578
AT1G73490	29.4135	35.7888	0.283029706	0.0121	0.0363089
AT1G73500	7.92705	24.4309	1.62385103	0.00005	0.000282578
AT1G73530	36.0573	21.6617	-0.735144901	0.00005	0.000282578
AT1G73540	9.11894	16.1931	0.828441163	0.00005	0.000282578
AT1G73570	3.38728	2.45499	-0.4644101	0.0131	0.0388035
AT1G73600	98.1436	69.066	-0.50691852	0.00005	0.000282578
AT1G73660	20.1559	13.8412	-0.542233177	0.00005	0.000282578
AT1G73670	17.9949	13.3193	-0.434069822	0.0001	0.000537698
AT1G73710	6.14254	7.96472	0.374788297	0.0014	0.00571151
AT1G73730	11.3198	8.32265	-0.443733596	0.0067	0.0220088
AT1G73740	9.77883	7.37793	-0.406445761	0.002	0.00779418
AT1G73750	27.4825	12.996	-1.080445599	0.00005	0.000282578
AT1G73760	17.7699	11.5965	-0.615746119	0.00015	0.000779873
AT1G73805	1.85335	2.66912	0.526228812	0.0057	0.0191634
AT1G73830	45.2812	16.252	-1.478294922	0.00005	0.000282578
AT1G73840	33.2524	25.3725	-0.390192793	0.0002	0.00101248
AT1G73850	4.20032	5.6694	0.432696818	0.00305	0.0112447
AT1G73870	11.2951	1.00062	-3.496730945	0.00005	0.000282578
AT1G73885	186.344	146.496	-0.347107094	0.00145	0.00588787
AT1G73920	41.2593	20.2404	-1.027481543	0.00005	0.000282578
AT1G73930	12.8817	9.83018	-0.39003326	0.00055	0.00251246
AT1G73940	24.562	31.5263	0.360127823	0.0047	0.0162675
AT1G73950	9.51805	14.855	0.642210667	0.00005	0.000282578
AT1G74000	2.10519	0.870962	-1.273268766	0.0003	0.00145851
AT1G74020	33.3687	61.7187	0.887212192	0.00005	0.000282578
AT1G74030	21.5988	14.4264	-0.582239829	0.0011	0.00462106
AT1G74040	23.7775	17.3178	-0.45734137	0.009	0.0282735
AT1G74050	160.126	132.044	-0.278188833	0.0056	0.0188774
AT1G74090	31.9039	43.3114	0.441014014	0.00005	0.000282578
AT1G74100	58.0219	82.5029	0.507847292	0.00005	0.000282578
AT1G74180	2.71677	3.59801	0.405306763	0.0084	0.0266576
AT1G74200	0.712938	1.83463	1.363640612	0.00005	0.000282578
AT1G74210	21.0573	75.9144	1.850053109	0.00005	0.000282578
AT1G74260	19.7557	24.1622	0.290482854	0.00345	0.0125039
AT1G74270	73.8857	119.117	0.689012251	0.00005	0.000282578

AT1G74280	4.84917	7.32433	0.594958962	0.0003	0.00145851
AT1G74310	2.77192	13.3196	2.264593232	0.00005	0.000282578
AT1G74320	16.6637	9.80448	-0.76519575	0.00005	0.000282578
AT1G74330	5.07446	8.52004	0.747605898	0.00005	0.000282578
AT1G74340	31.7533	42.6034	0.424062037	0.0044	0.0153749
AT1G74360	1.74996	4.98683	1.510801077	0.00005	0.000282578
AT1G74370	18.6836	11.1683	-0.742362863	0.00105	0.00443869
AT1G74380	29.8261	21.9322	-0.443524811	0.00005	0.000282578
AT1G74410	9.37627	14.6511	0.643922966	0.00005	0.000282578
AT1G74430	6.12722	3.66402	-0.741805274	0.0011	0.00462106
AT1G74460	19.3309	27.0264	0.483460546	0.0001	0.000537698
AT1G74470	829.418	257.306	-1.688614258	0.00005	0.000282578
AT1G74540	0.355163	0.878449	1.306477237	0.0027	0.0101192
AT1G74560	50.8236	97.5077	0.940017581	0.00005	0.000282578
AT1G74590	3.63311	12.0392	1.728462577	0.00005	0.000282578
AT1G74640	46.1974	23.8581	-0.953332504	0.00005	0.000282578
AT1G74670	178.936	55.3354	-1.693169048	0.00005	0.000282578
AT1G74690	46.3192	28.6913	-0.690996998	0.00005	0.000282578
AT1G74710	9.48041	16.2127	0.774103014	0.00005	0.000282578
AT1G74730	213.96	95.754	-1.159936449	0.00005	0.000282578
AT1G74780	5.59289	7.21123	0.366651401	0.00915	0.0286771
AT1G74790	37.9926	16.2231	-1.227668921	0.00005	0.000282578
AT1G74800	7.29418	4.25194	-0.778624563	0.00235	0.00897001
AT1G74810	1.54108	0.885403	-0.79953559	0.0013	0.00534838
AT1G74870	0.2467	1.6282	2.722448303	0.00005	0.000282578
AT1G74880	145.035	197.799	0.447634037	0.00005	0.000282578
AT1G74910	72.7263	41.7993	-0.798998398	0.00005	0.000282578
AT1G74930	2.72393	5.08938	0.901800285	0.0001	0.000537698
AT1G74960	88.1188	46.7191	-0.915437366	0.00005	0.000282578
AT1G74970	272.703	151.013	-0.852657822	0.00005	0.000282578
AT1G75000	2.91426	8.11912	1.478193772	0.00005	0.000282578
AT1G75030	3.52256	1.9248	-0.871915733	0.001	0.00425239
AT1G75060	2.00587	3.10451	0.630137471	0.01425	0.0416386
AT1G75100	18.2499	7.81611	-1.223365882	0.00005	0.000282578
AT1G75130	11.7964	15.9009	0.430761777	0.0005	0.00230701
AT1G75140	10.4082	7.46801	-0.478924825	0.0002	0.00101248
AT1G75150	2.74326	1.3414	-1.032151857	0.00005	0.000282578
AT1G75180	28.3007	10.043	-1.494647449	0.00005	0.000282578
AT1G75190	12.6515	6.07842	-1.057540176	0.00005	0.000282578
AT1G75220	62.8449	36.0287	-0.802649075	0.00005	0.000282578
AT1G75240	24.1442	13.1246	-0.879403207	0.00005	0.000282578
AT1G75250	5.54051	1.44644	-1.937512302	0.00015	0.000779873
AT1G75260	1.21585	0.47387	-1.35940202	0.0006	0.00271108
AT1G75270	25.3349	63.9762	1.336409169	0.00005	0.000282578
AT1G75280	78.3378	151.199	0.94866808	0.00005	0.000282578
AT1G75290	1.56972	4.37601	1.479108795	0.00005	0.000282578
AT1G75330	59.2806	74.6707	0.332982206	0.01175	0.0354077

AT1G75350	362.262	198.638	-0.866891839	0.00005	0.000282578
AT1G75370	35.5211	26.9718	-0.397224454	0.00005	0.000282578
AT1G75380	443.454	354.418	-0.323332583	0.0021	0.00813349
AT1G75390	12.352	23.9048	0.952555678	0.00005	0.000282578
AT1G75400	15.3172	23.8218	0.637129834	0.00005	0.000282578
AT1G75460	93.8835	58.1869	-0.690177241	0.00005	0.000282578
AT1G75490	2.86533	1.79234	-0.676856967	0.00485	0.0167116
AT1G75540	80.2139	57.6998	-0.47528594	0.00005	0.000282578
AT1G75640	4.29788	2.36426	-0.862236503	0.00005	0.000282578
AT1G75670	8.02033	10.532	0.393045923	0.0142	0.0415192
AT1G75680	74.4963	53.7558	-0.47074835	0.00005	0.000282578
AT1G75690	151.004	48.1972	-1.647565525	0.00005	0.000282578
AT1G75710	18.7533	15.4881	-0.275984315	0.01735	0.0490658
AT1G75750	805.952	1450.27	0.847555691	0.00005	0.000282578
AT1G75780	27.3661	12.7501	-1.101881286	0.00005	0.000282578
AT1G75810	11.445	22.2844	0.961316654	0.00005	0.000282578
AT1G75820	33.0994	16.9973	-0.961499471	0.00005	0.000282578
AT1G75860	13.8334	17.8176	0.365147233	0.0048	0.0165649
AT1G75880	9.25899	6.10646	-0.600518556	0.00005	0.000282578
AT1G75900	34.7237	5.08941	-2.770350359	0.00005	0.000282578
AT1G75950	250.673	191.888	-0.385542119	0.00005	0.000282578
AT1G75960	15.7475	5.63988	-1.481386439	0.00005	0.000282578
AT1G75990	21.9635	13.9933	-0.650371744	0.00005	0.000282578
AT1G76010	105.545	144.095	0.449162041	0.0001	0.000537698
AT1G76020	34.9905	15.8238	-1.144867183	0.00005	0.000282578
AT1G76040	7.37746	9.67174	0.390651268	0.0037	0.0132727
AT1G76050	19.645	13.8087	-0.508584662	0.00025	0.00123846
AT1G76070	7.81325	10.3788	0.409644967	0.00665	0.0218627
AT1G76080	295.529	351.139	0.248742533	0.01365	0.0401899
AT1G76090	48.6342	34.9059	-0.478500277	0.00005	0.000282578
AT1G76100	251.749	119.542	-1.074468462	0.00005	0.000282578
AT1G76110	13.9036	9.42371	-0.561091434	0.00005	0.000282578
AT1G76130	6.58298	9.35382	0.506814852	0.0006	0.00271108
AT1G76140	42.3106	27.3498	-0.629488861	0.00005	0.000282578
AT1G76160	108.011	64.407	-0.745888846	0.00005	0.000282578
AT1G76240	33.2783	11.9387	-1.478935986	0.00005	0.000282578
AT1G76300	25.8382	36.1452	0.484298504	0.00005	0.000282578
AT1G76310	7.47013	3.25993	-1.196292364	0.00005	0.000282578
AT1G76390	7.00298	11.1214	0.667297539	0.00225	0.00863481
AT1G76430	1.74409	2.5121	0.526419406	0.0149	0.0432411
AT1G76450	135.466	74.4008	-0.864540762	0.00005	0.000282578
AT1G76490	205.677	160.638	-0.35656726	0.0007	0.00310863
AT1G76520	31.5398	51.4688	0.706524635	0.00005	0.000282578
AT1G76540	24.2603	16.2504	-0.578122161	0.00005	0.000282578
AT1G76590	10.5356	14.1648	0.427037754	0.0014	0.00571151
AT1G76600	13.2929	19.479	0.551263736	0.00005	0.000282578
AT1G76630	10.6184	8.11097	-0.388620031	0.0004	0.00188925

AT1G76650	5.12696	10.0286	0.967944672	0.0002	0.00101248
AT1G76670	64.2286	50.0787	-0.359018739	0.0003	0.00145851
AT1G76680	108.247	192.117	0.827658143	0.00005	0.000282578
AT1G76710	10.5568	7.51633	-0.490072274	0.00005	0.000282578
AT1G76720	1.82819	3.50847	0.940426012	0.00005	0.000282578
AT1G76790	83.6915	68.6619	-0.285571325	0.00625	0.0207474
AT1G76820	2.8016	5.41484	0.95066772	0.00005	0.000282578
AT1G76850	40.2306	32.0431	-0.328279527	0.00415	0.0146251
AT1G76890	36.6594	24.6131	-0.574756798	0.00005	0.000282578
AT1G76930	317.06	514.556	0.698572217	0.00005	0.000282578
AT1G76952	2.7887	6.23739	1.161349726	0.008	0.0256029
AT1G76955	1.58097	9.2115	2.542626112	0.00005	0.000282578
AT1G76960	1.01404	57.1768	5.817243412	0.00005	0.000282578
AT1G76970	6.08322	10.1746	0.742064993	0.00005	0.000282578
AT1G76980	5.27694	9.15855	0.795417626	0.0001	0.000537698
AT1G77010	0.308314	1.11812	1.858602725	0.00005	0.000282578
AT1G77020	6.8865	9.0663	0.396742967	0.0056	0.0188774
AT1G77030	9.94486	13.4171	0.432049912	0.00775	0.0249349
AT1G77060	40.8327	27.1597	-0.588257423	0.00035	0.00167549
AT1G77080	54.681	22.0151	-1.31254623	0.00005	0.000282578
AT1G77090	60.2316	37.6524	-0.677778757	0.00005	0.000282578
AT1G77120	5.22009	22.2088	2.088984857	0.00005	0.000282578
AT1G77145	1.60249	3.09234	0.948383597	0.0003	0.00145851
AT1G77180	66.9053	50.8075	-0.397079023	0.00005	0.000282578
AT1G77200	4.13094	2.55053	-0.695673036	0.0038	0.0135703
AT1G77210	24.1723	17.3039	-0.482257519	0.00005	0.000282578
AT1G77230	1.70188	2.61012	0.61698682	0.0113	0.0342596
AT1G77240	6.09891	8.81281	0.531050675	0.0006	0.00271108
AT1G77280	5.52823	9.94901	0.847735334	0.00005	0.000282578
AT1G77370	51.6367	85.1366	0.721382672	0.00005	0.000282578
AT1G77380	3.88874	6.14765	0.660732252	0.0109	0.0332243
AT1G77400	3.58899	6.43574	0.84252814	0.00005	0.000282578
AT1G77420	9.66717	16.9952	0.813961822	0.00005	0.000282578
AT1G77450	4.16447	10.7958	1.37426535	0.00005	0.000282578
AT1G77480	13.6767	19.5799	0.517653227	0.00315	0.0115529
AT1G77490	118.802	50.6294	-1.230511831	0.00005	0.000282578
AT1G77510	33.1224	59.8647	0.853898338	0.00005	0.000282578
AT1G77520	8.64331	13.5726	0.651041303	0.00005	0.000282578
AT1G77570	2.33723	5.06733	1.116426072	0.00185	0.00728767
AT1G77580	7.53686	5.62387	-0.422400349	0.0012	0.00498818
AT1G77590	30.7887	22.0457	-0.481903667	0.00005	0.000282578
AT1G77640	1.82013	0.913137	-0.995138264	0.00655	0.021582
AT1G77660	4.16171	6.45351	0.632907604	0.00005	0.000282578
AT1G77670	17.0585	25.6426	0.588051758	0.00005	0.000282578
AT1G77700	3.53389	2.30426	-0.616953622	0.01325	0.0391853
AT1G77710	75.5214	126.722	0.746709596	0.00005	0.000282578
AT1G77720	4.05099	3.08913	-0.391073938	0.01005	0.0310377

AT1G77750	17.6924	11.947	-0.566481375	0.00005	0.000282578
AT1G77760	247.182	96.7305	-1.353530927	0.00005	0.000282578
AT1G77800	19.7952	24.1412	0.286346747	0.00395	0.0140308
AT1G77810	7.65405	10.2373	0.419540037	0.005	0.0171523
AT1G77890	4.65095	8.7113	0.9053626	0.00005	0.000282578
AT1G77920	16.1415	44.3689	1.458774134	0.00005	0.000282578
AT1G77930	63.1832	40.216	-0.651771412	0.00005	0.000282578
AT1G77960	3.66238	0.543324	-2.752896809	0.00005	0.000282578
AT1G77990	8.84265	13.5704	0.617912554	0.00005	0.000282578
AT1G78000	37.6113	46.1528	0.295252003	0.0043	0.0150809
AT1G78010	11.3876	15.3948	0.434979402	0.00015	0.000779873
AT1G78020	74.1159	242.263	1.708719103	0.00005	0.000282578
AT1G78040	522.986	361.355	-0.53335547	0.00005	0.000282578
AT1G78060	17.4714	35.4759	1.021844068	0.00005	0.000282578
AT1G78080	76.8791	113.837	0.566306195	0.00005	0.000282578
AT1G78090	7.78745	3.92177	-0.989646067	0.00005	0.000282578
AT1G78140	44.9027	23.3794	-0.941564291	0.00005	0.000282578
AT1G78150	66.9343	86.6744	0.372860245	0.0003	0.00145851
AT1G78170	45.3512	22.2879	-1.024880035	0.00005	0.000282578
AT1G78180	17.8157	13.3394	-0.417455394	0.00065	0.00291062
AT1G78190	2.01433	20.0823	3.31755255	0.0002	0.00101248
AT1G78210	24.488	11.4689	-1.094347923	0.00005	0.000282578
AT1G78240	37.3963	25.6237	-0.545416724	0.00005	0.000282578
AT1G78260	19.1894	11.7806	-0.703896584	0.00005	0.000282578
AT1G78270	19.3854	14.1094	-0.458313865	0.0001	0.000537698
AT1G78290	10.5071	19.274	0.875291475	0.00005	0.000282578
AT1G78300	131.417	77.0757	-0.769803922	0.00005	0.000282578
AT1G78340	10.0535	4.37597	-1.200023092	0.00005	0.000282578
AT1G78370	198.715	84.4954	-1.233756071	0.00005	0.000282578
AT1G78410	1.10981	3.86759	1.801122156	0.00005	0.000282578
AT1G78420	17.2496	22.6067	0.390187503	0.0002	0.00101248
AT1G78430	5.20393	2.41908	-1.105143075	0.00005	0.000282578
AT1G78440	1.57159	0.329648	-2.25322666	0.0003	0.00145851
AT1G78450	13.5591	26.1772	0.949049369	0.00005	0.000282578
AT1G78460	227.34	103.223	-1.13908708	0.00005	0.000282578
AT1G78510	17.2953	21.753	0.330834341	0.00375	0.0134211
AT1G78520	2.10428	4.14797	0.979078774	0.0163	0.0466222
AT1G78530	4.08831	2.40115	-0.767779063	0.0004	0.00188925
AT1G78570	51.1835	92.7373	0.85747092	0.00005	0.000282578
AT1G78590	15.9917	8.01949	-0.995740916	0.00005	0.000282578
AT1G78600	96.8907	35.976	-1.429323407	0.00005	0.000282578
AT1G78630	371.85	155.853	-1.254534847	0.00005	0.000282578
AT1G78670	62.573	125.461	1.003626788	0.00005	0.000282578
AT1G78680	82.8059	98.9338	0.256729926	0.0107	0.0327122
AT1G78750	0.189152	2.43274	3.684964204	0.00005	0.000282578
AT1G78820	39.6869	10.1035	-1.973807726	0.00005	0.000282578
AT1G78830	202.02	273.697	0.438081494	0.00005	0.000282578

AT1G78850	292.308	161.752	-0.853705763	0.00005	0.000282578
AT1G78860	3.85921	1.93003	-0.999682278	0.00005	0.000282578
AT1G78870	71.157	48.3564	-0.557298844	0.00005	0.000282578
AT1G78890	42.267	33.559	-0.332831991	0.009	0.0282735
AT1G78900	265.98	198.583	-0.421575644	0.00005	0.000282578
AT1G78915	35.1476	26.8903	-0.38634033	0.00115	0.00480526
AT1G78920	39.1357	47.7579	0.28725415	0.0041	0.0144768
AT1G78930	2.21867	3.99257	0.847622602	0.00005	0.000282578
AT1G78995	36.1022	24.3457	-0.568419773	0.00005	0.000282578
AT1G79010	109.288	80.916	-0.433638091	0.00005	0.000282578
AT1G79020	6.79089	8.96714	0.401047259	0.00235	0.00897001
AT1G79040	8967.09	4554.64	-0.97730285	0.00005	0.000282578
AT1G79060	5.90265	3.52176	-0.745066203	0.00005	0.000282578
AT1G79080	7.32046	5.83304	-0.327686339	0.01655	0.0471864
AT1G79110	11.1378	29.3472	1.397758571	0.00005	0.000282578
AT1G79120	0.417214	0.94607	1.181159363	0.00195	0.00762526
AT1G79150	9.90893	6.98124	-0.50524597	0.00015	0.000779873
AT1G79190	4.25498	5.21716	0.294112328	0.0156	0.0449239
AT1G79320	6.17718	3.34802	-0.883640225	0.00005	0.000282578
AT1G79340	113.157	80.02	-0.4998933	0.00005	0.000282578
AT1G79360	0.802897	1.78913	1.155971391	0.0002	0.00101248
AT1G79380	47.3769	35.0336	-0.435444557	0.00005	0.000282578
AT1G79410	12.0978	15.1729	0.326752139	0.00565	0.0190219
AT1G79430	10.4297	13.2547	0.345806357	0.008	0.0256029
AT1G79440	74.4869	51.2133	-0.540468197	0.00005	0.000282578
AT1G79460	6.42821	2.31901	-1.470908019	0.00005	0.000282578
AT1G79490	2.97198	4.73242	0.671153711	0.00005	0.000282578
AT1G79500	21.3476	11.6028	-0.879600884	0.00005	0.000282578
AT1G79510	31.8824	43.8288	0.459118945	0.0001	0.000537698
AT1G79520	4.59053	8.27928	0.850844581	0.00005	0.000282578
AT1G79550	158.992	216.282	0.443959427	0.0009	0.00387377
AT1G79580	0.557005	1.00721	0.854602329	0.01635	0.0467368
AT1G79590	27.535	20.9519	-0.394185529	0.0005	0.00230701
AT1G79600	92.3834	61.3157	-0.591377117	0.00005	0.000282578
AT1G79610	6.33764	9.81406	0.63090438	0.00005	0.000282578
AT1G79620	3.3919	5.28069	0.638632814	0.00005	0.000282578
AT1G79640	5.6834	3.68258	-0.62603739	0.00005	0.000282578
AT1G79680	0.310215	1.37355	2.146569076	0.00005	0.000282578
AT1G79700	29.084	8.70424	-1.740435459	0.00005	0.000282578
AT1G79710	4.88078	10.7152	1.134475149	0.00005	0.000282578
AT1G79720	21.6616	13.0485	-0.731255839	0.00005	0.000282578
AT1G79760	2.70529	5.07445	0.907468207	0.00005	0.000282578
AT1G79850	619.564	353.586	-0.809192165	0.00005	0.000282578
AT1G79870	74.7891	57.1098	-0.38908969	0.00075	0.0032996
AT1G79910	3.56875	6.13705	0.782126497	0.00055	0.00251246
AT1G79920	65.5897	101.884	0.635386325	0.00005	0.000282578
AT1G79970	49.0517	41.2555	-0.249716671	0.0168	0.0477826



AT1G79990	37.1906	24.7947	-0.584906254	0.00005	0.000282578
AT1G80050	10.3906	6.32446	-0.716264755	0.00005	0.000282578
AT1G80080	12.6597	8.63599	-0.551809739	0.00005	0.000282578
AT1G80120	3.1656	5.38861	0.767434205	0.00005	0.000282578
AT1G80130	1.72899	7.98937	2.208152219	0.00005	0.000282578
AT1G80150	2.95851	5.28621	0.837362967	0.00005	0.000282578
AT1G80160	1.0846	4.79674	2.144891167	0.00005	0.000282578
AT1G80190	6.19256	3.35556	-0.883982388	0.00005	0.000282578
AT1G80230	57.4448	44.9517	-0.353800626	0.00135	0.00552942
AT1G80300	32.8048	53.2066	0.69769829	0.00005	0.000282578
AT1G80310	9.11588	14.2008	0.639518368	0.00005	0.00230701
AT1G80315	31.7854	41.6018	0.388281707	0.00865	0.0273357
AT1G80320	2.3143	4.26235	0.881073172	0.0016	0.00641937
AT1G80350	17.6509	13.3553	-0.402329363	0.0007	0.00310863
AT1G80370	3.73843	2.68852	-0.475620316	0.01075	0.0328373
AT1G80380	197.277	122.734	-0.684687803	0.00005	0.000282578
AT1G80410	47.3557	38.3796	-0.303198412	0.00545	0.0184447
AT1G80420	18.8696	12.378	-0.608285614	0.00005	0.000282578
AT1G80460	69.4811	45.9445	-0.596728427	0.00005	0.000282578
AT1G80490	23.5724	17.9762	-0.391010572	0.00025	0.00123846
AT1G80500	46.8749	38.2276	-0.294200985	0.0089	0.0279995
AT1G80520	1.55693	2.81266	0.853231085	0.00295	0.0109262
AT1G80530	17.2083	21.1005	0.294172604	0.0074	0.0239743
AT1G80550	9.25962	11.8031	0.350140929	0.00555	0.0187351
AT1G80560	43.4947	27.8038	-0.645557541	0.00005	0.000282578
AT1G80570	4.51156	3.37942	-0.41685071	0.01565	0.0450446
AT1G80600	76.7787	61.0708	-0.330223389	0.0013	0.00534838
AT1G80610	5.8023	12.1236	1.063121363	0.00005	0.000282578
AT1G80640	23.5885	16.9059	-0.480556859	0.00005	0.000282578
AT1G80720	4.92425	7.41549	0.590638018	0.0028	0.0104493
AT1G80770	23.3979	16.3081	-0.520790343	0.00005	0.000282578
AT1G80810	6.77846	3.83199	-0.822863748	0.00005	0.000282578
AT1G80840	2.50107	6.77682	1.438063016	0.00005	0.000282578
AT1G80890	16.5469	26.1948	0.662719488	0.00265	0.00995735
AT1G80920	537.719	222.677	-1.271899897	0.00005	0.000282578
AT2G01008	0.0818843	0.536536	2.712016205	0.0108	0.0329645
AT2G01080	15.0505	10.6383	-0.50054379	0.0006	0.00271108
AT2G01100	41.299	59.399	0.524331794	0.0135	0.039819
AT2G01110	102.63	60.891	-0.753151599	0.00005	0.000282578
AT2G01150	12.8789	26.1775	1.023317947	0.00005	0.000282578
AT2G01170	32.9176	19.9708	-0.720967028	0.00005	0.000282578
AT2G01180	15.9572	22.8353	0.517058218	0.00005	0.000282578
AT2G01220	25.0498	32.1538	0.360190163	0.0009	0.00387377
AT2G01250	229.407	175.757	-0.384327264	0.0002	0.00101248
AT2G01260	20.5126	16.4774	-0.316021752	0.00525	0.0178784
AT2G01270	30.6567	40.5663	0.404079314	0.00005	0.000282578
AT2G01290	19.0847	32.4979	0.767929986	0.00005	0.000282578

AT2G01300	2.4854	4.19761	0.756090074	0.0049	0.016855
AT2G01320	24.4275	31.5499	0.369129212	0.0013	0.00534838
AT2G01420	43.0407	34.932	-0.301152296	0.00255	0.00962703
AT2G01430	2.23106	5.06189	1.181946844	0.00005	0.000282578
AT2G01510	0.867641	2.02636	1.22372037	0.0011	0.00462106
AT2G01520	663.401	832.114	0.326900005	0.0022	0.00846997
AT2G01530	256.388	130.257	-0.976967835	0.00005	0.000282578
AT2G01590	31.6344	22.6966	-0.479018038	0.0003	0.00145851
AT2G01610	2.00667	4.74275	1.24092044	0.00005	0.000282578
AT2G01620	31.0281	41.9604	0.435453074	0.0057	0.0191634
AT2G01660	7.06718	9.09022	0.363180556	0.0131	0.0388035
AT2G01670	52.7263	119.028	1.174706325	0.00005	0.000282578
AT2G01680	14.5176	24.1512	0.734291902	0.00005	0.000282578
AT2G01735	12.0427	7.47231	-0.68853267	0.00005	0.000282578
AT2G01820	43.6426	33.1431	-0.397028503	0.00005	0.000282578
AT2G01830	9.28153	6.87179	-0.433676695	0.00015	0.000779873
AT2G01850	113.295	77.0319	-0.556556278	0.00005	0.000282578
AT2G01860	6.22417	3.40035	-0.872198214	0.0003	0.00145851
AT2G01880	11.5632	16.792	0.538233367	0.0001	0.000537698
AT2G01890	21.452	34.4827	0.684760584	0.00005	0.000282578
AT2G01910	35.7521	28.0652	-0.349245645	0.0009	0.00387377
AT2G01930	25.7246	14.2149	-0.855744694	0.00005	0.000282578
AT2G01940	5.69196	4.1362	-0.460619577	0.0042	0.0147771
AT2G01990	8.2264	12.5554	0.609974864	0.00025	0.00123846
AT2G02010	1.86764	4.65008	1.316039144	0.00005	0.000282578
AT2G02020	7.90237	5.91437	-0.418060896	0.0046	0.01597
AT2G02040	37.0979	25.5218	-0.53960744	0.00005	0.000282578
AT2G02070	55.3738	38.2081	-0.535325012	0.00005	0.000282578
AT2G02080	22.1889	15.7875	-0.491055415	0.00005	0.000282578
AT2G02100	401.637	197.675	-1.022761756	0.00005	0.000282578
AT2G02120	14.299	7.05376	-1.019449861	0.0001	0.000537698
AT2G02130	261.953	384.032	0.551918546	0.00005	0.000282578
AT2G02160	46.3871	60.1668	0.375243973	0.0002	0.00101248
AT2G02170	15.7106	8.97101	-0.808395954	0.00005	0.000282578
AT2G02180	43.9887	27.1816	-0.694502585	0.00005	0.000282578
AT2G02350	2.08538	3.32171	0.671615828	0.0099	0.0306393
AT2G02360	19.1346	27.8018	0.538994549	0.00005	0.000282578
AT2G02390	51.9539	68.939	0.40808832	0.00245	0.0092976
AT2G02480	6.37292	4.90267	-0.378386894	0.00125	0.00516712
AT2G02500	23.7743	10.9258	-1.121663944	0.00005	0.000282578
AT2G02510	57.3486	42.127	-0.445013087	0.00255	0.00962703
AT2G02570	72.0667	49.2419	-0.549446355	0.00005	0.000282578
AT2G02610	0.656804	1.1991	0.86841716	0.0039	0.0138733
AT2G02710	58.3446	35.1005	-0.733107554	0.00005	0.000282578
AT2G02780	11.0614	7.16128	-0.627244612	0.00005	0.000282578
AT2G02790	13.1465	10.1073	-0.379281105	0.0018	0.00711608
AT2G02800	32.8903	44.8893	0.448709432	0.00005	0.000282578

AT2G02810	7.06116	20.0383	1.504783007	0.00005	0.000282578
AT2G02850	9.46183	2.54088	-1.896790999	0.00005	0.000282578
AT2G02930	0.53116	1.8735	1.818517567	0.0005	0.00230701
AT2G02950	17.6124	11.9491	-0.559689556	0.00005	0.000282578
AT2G02990	2.84168	27.3183	3.265051701	0.00005	0.000282578
AT2G03050	5.89591	3.92531	-0.586907907	0.0019	0.00745613
AT2G03070	13.0937	9.50718	-0.461783449	0.0001	0.000537698
AT2G03140	9.40235	13.0621	0.474293568	0.00005	0.000282578
AT2G03240	10.9446	6.4787	-0.756442969	0.00005	0.000282578
AT2G03270	4.57088	6.78367	0.569594046	0.0007	0.00310863
AT2G03310	48.1146	65.6842	0.449071644	0.0001	0.000537698
AT2G03340	32.5624	25.3865	-0.35914553	0.00045	0.00210009
AT2G03350	49.8737	30.84	-0.693476472	0.00005	0.000282578
AT2G03380	0.857139	1.5911	0.892423425	0.00095	0.00406118
AT2G03390	69.1444	53.6203	-0.366833121	0.0003	0.00145851
AT2G03420	19.2269	13.2712	-0.534827345	0.00005	0.000282578
AT2G03440	228.59	132.631	-0.785344274	0.00005	0.000282578
AT2G03505	1.18867	2.86614	1.269760834	0.0004	0.00188925
AT2G03550	23.6237	42.917	0.861314291	0.00005	0.000282578
AT2G03590	2.76776	1.8613	-0.572408244	0.00965	0.0299919
AT2G03640	44.7751	35.4107	-0.338511291	0.0036	0.0129656
AT2G03680	303.741	214.333	-0.502987668	0.00005	0.000282578
AT2G03710	2.58825	5.6197	1.118516142	0.00005	0.000282578
AT2G03760	27.4787	15.1145	-0.862380499	0.00005	0.000282578
AT2G03780	18.0004	13.5881	-0.405685225	0.0025	0.00945953
AT2G03820	38.9484	32.2795	-0.270945832	0.0089	0.0279995
AT2G03980	24.7258	19.9	-0.313248769	0.0051	0.0174432
AT2G04030	69.7458	182.642	1.388840315	0.00005	0.000282578
AT2G04039	79.4035	40.6172	-0.967111812	0.00005	0.000282578
AT2G04050	0.883314	3.14138	1.830400188	0.00005	0.000282578
AT2G04070	0.0653726	0.734397	3.489802183	0.0094	0.0293309
AT2G04100	5.57389	8.03838	0.528220249	0.0002	0.00101248
AT2G04160	21.0164	58.0399	1.465529469	0.00005	0.000282578
AT2G04235	2.22229	1.70478	-0.382461522	0.01475	0.0428657
AT2G04240	27.6298	41.6599	0.592434257	0.00005	0.000282578
AT2G04360	27.5277	22.2573	-0.306605483	0.00785	0.0252038
AT2G04400	33.0116	51.986	0.655150089	0.0002	0.00101248
AT2G04450	1.38774	0.686994	-1.014367893	0.00615	0.0204586
AT2G04570	17.6175	6.80163	-1.373056782	0.00005	0.000282578
AT2G04650	9.23973	6.22677	-0.569366703	0.00405	0.0143254
AT2G04690	56.1125	46.3929	-0.27441816	0.0104	0.0319512
AT2G04700	178.823	110.054	-0.700320724	0.00005	0.000282578
AT2G04740	7.12394	9.28438	0.382130206	0.004	0.0141788
AT2G04780	82.0114	50.6305	-0.695817734	0.00005	0.000282578
AT2G04790	16.502	29.1009	0.818422886	0.00005	0.000282578
AT2G04795	6.78855	10.5482	0.635821471	0.0019	0.00745613
AT2G04800	20.6886	9.20686	-1.168054907	0.00005	0.000282578

AT2G04842	73.7784	59.0148	-0.322121697	0.0014	0.00571151
AT2G04860	1.40264	2.82621	1.010723892	0.00005	0.000282578
AT2G04865	14.8578	9.82872	-0.59614506	0.00005	0.000282578
AT2G04940	14.5242	11.1501	-0.381402052	0.00145	0.00588787
AT2G05070	3847.6	83.9434	-5.518398114	0.00005	0.000282578
AT2G05100	4256.86	79.3219	-5.745926598	0.00005	0.000282578
AT2G05160	3.96128	2.664	-0.572372598	0.00055	0.00251246
AT2G05260	8.11884	11.6695	0.523397229	0.00025	0.00123846
AT2G05320	9.00151	11.1944	0.314538266	0.01325	0.0391853
AT2G05380	3022.13	2221.7	-0.443901701	0.0001	0.000537698
AT2G05440	352.054	251.365	-0.486012951	0.00005	0.000282578
AT2G05510	97.2793	121.12	0.316232358	0.00335	0.0121887
AT2G05520	867.507	1203	0.471689338	0.0003	0.00145851
AT2G05590	9.62513	14.5427	0.595417214	0.00005	0.000282578
AT2G05620	123.893	98.8734	-0.325440328	0.00105	0.00443869
AT2G05630	23.3572	45.7635	0.970330056	0.00005	0.000282578
AT2G05632	3.21162	5.79954	0.852637272	0.0002	0.00101248
AT2G05710	108.457	143.734	0.406278199	0.00005	0.000282578
AT2G05790	66.9109	49.4574	-0.436054851	0.00005	0.000282578
AT2G05810	18.0889	13.1503	-0.460008967	0.00005	0.000282578
AT2G05990	128.983	60.5727	-1.090441305	0.00005	0.000282578
AT2G06025	66.2507	30.1146	-1.137472602	0.00005	0.000282578
AT2G06050	21.3404	48.5002	1.184403479	0.00005	0.000282578
AT2G06255	4.29617	2.10882	-1.026615124	0.00125	0.00516712
AT2G06520	2878.15	1057.98	-1.443829428	0.00005	0.000282578
AT2G06530	81.2736	63.8208	-0.348760107	0.00065	0.00291062
AT2G06850	691.099	202.516	-1.770856497	0.00005	0.000282578
AT2G06925	67.7161	27.3399	-1.30849092	0.00005	0.000282578
AT2G07050	66.2179	39.766	-0.735685808	0.00005	0.000282578
AT2G07170	3.14673	1.98725	-0.663080018	0.00005	0.000282578
AT2G07621	0	0.971572	inf	0.00005	0.000282578
AT2G07638	0.19857	1.54193	2.95701769	0.01715	0.0486055
AT2G07641	0.17532	2.15086	3.616851133	0.0091	0.0285401
AT2G07644	0	5.89047	inf	0.00005	0.000282578
AT2G07652	0	1.75157	inf	0.00005	0.000282578
AT2G07661	0	2.48674	inf	0.00005	0.000282578
AT2G07669	0.29937	2.16753	2.856050401	0.00245	0.0092976
AT2G07671	2.02005	80.3986	5.314707472	0.00005	0.000282578
AT2G07672	0	2.29665	inf	0.00005	0.000282578
AT2G07674	0.312923	3.45558	3.465048273	0.0004	0.00188925
AT2G07687	0	1.06784	inf	0.00005	0.000282578
AT2G07689	0	0.543791	inf	0.00005	0.000282578
AT2G07690	10.73	8.4908	-0.337677681	0.0047	0.0162675
AT2G07691	0	1.0628	inf	0.00005	0.000282578
AT2G07695	0.159919	2.3146	3.855349633	0.00005	0.000282578
AT2G07696	0.163011	3.71874	4.511772658	0.00365	0.0131214
AT2G07698	0.288414	5.82741	4.336641716	0.00005	0.000282578

AT2G07702	0	0.71675	inf	0.00005	0.000282578
AT2G07708	0.213693	2.954	3.789058271	0.00005	0.000282578
AT2G07715	0.904295	1.41169	0.642557923	0.0145	0.0422563
AT2G07718	0.267549	3.88003	3.858192765	0.00005	0.000282578
AT2G07719	0.285723	3.30883	3.533632092	0.00005	0.000282578
AT2G07724	0	0.724411	inf	0.00005	0.000282578
AT2G07725	0.161505	3.45846	4.420479036	0.00005	0.000282578
AT2G07727	0.23132	2.0275	3.131740002	0.00005	0.000282578
AT2G07738	0	0.921875	inf	0.00025	0.00123846
AT2G07749	0.0630978	0.816651	3.694058057	0.00145	0.00588787
AT2G07773	0.23164	1.09832	2.245342144	0.00015	0.000779873
AT2G07774	0.70924	4.579	2.690686756	0.0009	0.00387377
AT2G07776	0.387305	2.02171	2.384034036	0.0011	0.00462106
AT2G07777	0.137397	4.82476	5.134034771	0.00005	0.000282578
AT2G07779	0.17589	5.70549	5.019605426	0.00005	0.000282578
AT2G07787	0.145692	2.91665	4.323318706	0.0003	0.00145851
AT2G07795	0	0.695542	inf	0.00005	0.000282578
AT2G07825	0	1.49983	inf	0.0002	0.00101248
AT2G10940	1162.01	352.134	-1.722426047	0.00005	0.000282578
AT2G11225	26.1771	18.5759	-0.494873168	0.00015	0.000779873
AT2G11810	15.2935	118.771	2.957192102	0.00005	0.000282578
AT2G12400	25.8533	20.0127	-0.369432622	0.0005	0.00230701
AT2G12462	12.5564	7.90395	-0.667777168	0.00005	0.000282578
AT2G13290	8.17039	10.8994	0.415771869	0.0016	0.00641937
AT2G13360	1031.34	737.035	-0.484714986	0.00005	0.000282578
AT2G13440	19.7535	15.328	-0.365938832	0.0003	0.00145851
AT2G13540	18.485	14.6794	-0.332562042	0.00155	0.00624225
AT2G13560	110.2	80.1271	-0.459762056	0.00005	0.000282578
AT2G13570	0.940505	0.333385	-1.496246419	0.01115	0.0338768
AT2G13600	1.46391	2.09397	0.516413913	0.01565	0.0450446
AT2G13610	16.5444	9.21382	-0.844471653	0.00005	0.000282578
AT2G13790	10.0255	16.5685	0.724768807	0.00005	0.000282578
AT2G13800	5.48745	8.07401	0.557149484	0.00015	0.000779873
AT2G13820	28.8155	21.1224	-0.448071285	0.00135	0.00552942
AT2G14170	70.9948	33.5353	-1.08203285	0.00005	0.000282578
AT2G14210	0.274428	0.774611	1.497044301	0.01595	0.0457738
AT2G14260	49.077	31.3876	-0.644852342	0.00005	0.000282578
AT2G14285	15.9867	24.4085	0.610511472	0.0009	0.00387377
AT2G14510	1.15747	0.75832	-0.610096123	0.0151	0.0437129
AT2G14520	1.46478	3.78412	1.369273841	0.00005	0.000282578
AT2G14580	4.89735	0.855558	-2.517063739	0.00005	0.000282578
AT2G14610	4.99784	9.76713	0.966629983	0.0001	0.000537698
AT2G14750	39.1888	62.3777	0.670588962	0.00005	0.000282578
AT2G14800	0.608635	1.76415	1.535324029	0.00775	0.0249349
AT2G14850	6.13631	8.76965	0.515147897	0.00095	0.00406118
AT2G14890	208.121	109.712	-0.923701212	0.00005	0.000282578
AT2G15000	15.5377	22.9406	0.562130163	0.00015	0.000779873

AT2G15020	5.99473	3.97179	-0.593905431	0.00015	0.000779873
AT2G15080	19.7442	9.80919	-1.009222999	0.00005	0.000282578
AT2G15090	155.338	42.196	-1.880232647	0.00005	0.000282578
AT2G15220	6.93666	16.0763	1.212622327	0.00005	0.000282578
AT2G15290	98.2354	49.7929	-0.980302964	0.00005	0.000282578
AT2G15310	2.09798	4.36459	1.056845212	0.00005	0.000282578
AT2G15320	9.53781	15.1244	0.665147962	0.00005	0.000282578
AT2G15370	3.2206	4.72678	0.55352823	0.00145	0.00588787
AT2G15390	8.76836	17.8798	1.027951662	0.00005	0.000282578
AT2G15480	13.2176	19.6196	0.569835387	0.00005	0.000282578
AT2G15570	34.3644	23.5707	-0.543920166	0.0001	0.000537698
AT2G15580	33.6171	55.4244	0.721325972	0.00005	0.000282578
AT2G15620	147.127	114.232	-0.365095175	0.00025	0.00123846
AT2G15690	8.97084	12.1257	0.434753049	0.0003	0.00145851
AT2G15880	33.0459	25.7025	-0.362562595	0.0004	0.00188925
AT2G15890	294.683	119.509	-1.302044566	0.00005	0.000282578
AT2G15960	218.593	131.272	-0.735687977	0.00005	0.000282578
AT2G15970	682.087	223.093	-1.61231052	0.00005	0.000282578
AT2G16005	60.1713	39.4896	-0.607602772	0.00005	0.000282578
AT2G16060	5.29867	8.34808	0.655814147	0.0006	0.00271108
AT2G16270	6.81561	2.65129	-1.362148303	0.00005	0.000282578
AT2G16280	68.8481	42.3504	-0.701041245	0.00005	0.000282578
AT2G16365	52.867	36.0698	-0.551576038	0.00005	0.000282578
AT2G16370	18.0315	13.7661	-0.389399521	0.0006	0.00271108
AT2G16380	27.2896	20.0645	-0.443706043	0.0001	0.000537698
AT2G16385	1.83319	5.12191	1.482325582	0.00015	0.000779873
AT2G16430	35.8527	48.5807	0.438301508	0.00005	0.000282578
AT2G16440	7.4721	5.36632	-0.477580676	0.00015	0.000779873
AT2G16500	47.2521	34.8623	-0.438710695	0.00005	0.000282578
AT2G16530	8.02027	4.86265	-0.721908051	0.00005	0.000282578
AT2G16586	20.406	37.856	0.891528567	0.00005	0.000282578
AT2G16595	4.39045	7.65066	0.801215394	0.0001	0.000537698
AT2G16630	19.381	11.7408	-0.723112296	0.01505	0.043598
AT2G16640	19.8718	26.2809	0.403292123	0.0005	0.00230701
AT2G16720	7.73822	10.4694	0.436105113	0.00345	0.0125039
AT2G16760	3.60159	6.25607	0.796622699	0.00005	0.000282578
AT2G16790	14.632	10.8235	-0.434959881	0.00735	0.0238331
AT2G16800	23.9997	18.0644	-0.409867035	0.00045	0.00210009
AT2G16850	10.9512	7.77871	-0.493486137	0.0004	0.00188925
AT2G16870	0.704059	1.68866	1.262110644	0.00005	0.000282578
AT2G16890	2.68314	7.16482	1.417008127	0.00005	0.000282578
AT2G16990	6.00293	3.68376	-0.704487773	0.00005	0.000282578
AT2G17030	6.71019	8.55477	0.35037545	0.01515	0.0438308
AT2G17033	24.134	19.1157	-0.336309018	0.0023	0.00880163
AT2G17040	1.63665	14.8748	3.184052533	0.00005	0.000282578
AT2G17120	20.1826	27.5452	0.448688898	0.00515	0.0175936
AT2G17210	0.9164	1.41695	0.628739487	0.015	0.0434809

AT2G17220	13.2523	24.2496	0.871718182	0.00005	0.000282578
AT2G17230	41.2434	16.0805	-1.358851004	0.00005	0.000282578
AT2G17240	62.1518	82.0209	0.4001954	0.00015	0.000779873
AT2G17260	1.22157	1.7426	0.512504911	0.00745	0.0241032
AT2G17280	8.96721	16.6787	0.895275755	0.00005	0.000282578
AT2G17290	25.5738	19.5266	-0.389225779	0.00025	0.00123846
AT2G17300	7.50083	9.92806	0.404461589	0.01285	0.0381931
AT2G17320	26.2606	13.7841	-0.929894806	0.00005	0.000282578
AT2G17340	44.9463	31.6056	-0.508022154	0.00005	0.000282578
AT2G17350	27.8586	34.8953	0.324909976	0.0109	0.0332243
AT2G17360	174.23	138.625	-0.329805597	0.0014	0.00571151
AT2G17450	28.5739	19.3539	-0.562073648	0.00005	0.000282578
AT2G17500	60.3587	107.965	0.838930058	0.00005	0.000282578
AT2G17540	22.817	15.2745	-0.578983962	0.00005	0.000282578
AT2G17550	11.6463	8.69036	-0.42238384	0.0002	0.00101248
AT2G17560	85.7445	53.5412	-0.67939466	0.00005	0.000282578
AT2G17570	5.21782	6.79588	0.381213202	0.0158	0.0454124
AT2G17620	2.34919	0.633284	-1.891238867	0.00005	0.000282578
AT2G17630	9.71812	6.86418	-0.501589862	0.0009	0.00387377
AT2G17640	8.28495	10.5735	0.351888115	0.0137	0.040313
AT2G17740	7.8506	13.0562	0.733860238	0.00005	0.000282578
AT2G17780	7.35263	3.80854	-0.949022339	0.00005	0.000282578
AT2G17790	20.4054	26.835	0.395164897	0.0001	0.000537698
AT2G17820	12.1843	7.1176	-0.775560607	0.00005	0.000282578
AT2G17830	1.66391	2.77399	0.737385186	0.002	0.00779418
AT2G17880	16.0182	8.11528	-0.98099926	0.00005	0.000282578
AT2G17900	3.44087	5.00822	0.541524552	0.0019	0.00745613
AT2G17990	29.5219	35.5589	0.268425121	0.01415	0.0413977
AT2G18020	305.066	225.106	-0.438516888	0.00005	0.000282578
AT2G18030	14.3122	18.1154	0.339971209	0.00775	0.0249349
AT2G18050	36.6377	93.1141	1.345670709	0.00005	0.000282578
AT2G18110	69.1948	57.2617	-0.273093121	0.0085	0.0269248
AT2G18150	1.75723	6.50541	1.88833695	0.00005	0.000282578
AT2G18160	114.685	149.777	0.385139389	0.00005	0.000282578
AT2G18193	2.89879	6.95382	1.262354901	0.00005	0.000282578
AT2G18196	8.14435	4.90301	-0.732131858	0.00005	0.000282578
AT2G18210	5.26218	8.27543	0.653173679	0.00115	0.00480526
AT2G18230	14.9931	43.5372	1.537949918	0.00005	0.000282578
AT2G18245	9.23255	6.75684	-0.450380478	0.00125	0.00516712
AT2G18260	3.70514	2.11379	-0.809696001	0.0008	0.00349363
AT2G18280	145.632	101.385	-0.522483176	0.00005	0.000282578
AT2G18290	39.353	16.2962	-1.27193803	0.0005	0.00230701
AT2G18300	98.132	26.0853	-1.911486638	0.00005	0.000282578
AT2G18328	19.8483	13.4501	-0.561398547	0.0015	0.00606399
AT2G18370	42.0975	66.1283	0.651533254	0.00005	0.000282578
AT2G18470	0.358975	0.867707	1.273324593	0.0006	0.00271108
AT2G18480	0.526516	2.57445	2.289714973	0.00005	0.000282578

AT2G18510	20.8997	27.626	0.402544454	0.0002	0.00101248
AT2G18550	0.337044	1.37801	2.03157751	0.00205	0.00796423
AT2G18600	3.23546	4.90308	0.59971746	0.0139	0.0408016
AT2G18620	1.96667	0.595461	-1.723675973	0.00005	0.000282578
AT2G18650	4.27397	2.57926	-0.728619571	0.00005	0.000282578
AT2G18660	0.147743	6.88715	5.542745416	0.00005	0.000282578
AT2G18680	0.621111	3.25276	2.388741356	0.01305	0.0386862
AT2G18690	12.3345	27.9804	1.181717352	0.00005	0.000282578
AT2G18700	29.9013	8.96308	-1.73814173	0.00005	0.000282578
AT2G18730	26.1617	40.2219	0.620524942	0.00005	0.000282578
AT2G18800	3.6335	2.26197	-0.683780111	0.0053	0.0180196
AT2G18876	18.1398	14.2168	-0.351561778	0.0038	0.0135703
AT2G18890	6.84499	3.49821	-0.968431536	0.00005	0.000282578
AT2G18910	35.9229	21.9039	-0.713716056	0.00005	0.000282578
AT2G18950	13.6451	24.8385	0.864195084	0.00005	0.000282578
AT2G18960	201.095	409.629	1.026440645	0.00005	0.000282578
AT2G18990	16.3256	12.0661	-0.436176571	0.00185	0.00728767
AT2G19050	0.89166	0.267076	-1.739243361	0.0057	0.0191634
AT2G19060	1.73964	0.286082	-2.604288154	0.00005	0.000282578
AT2G19130	6.22515	12.3132	0.984025238	0.00005	0.000282578
AT2G19150	0.240716	0.971961	2.013566388	0.0039	0.0138733
AT2G19170	9.09129	6.17769	-0.557417541	0.0031	0.0114009
AT2G19190	4.69842	11.2569	1.260561994	0.00005	0.000282578
AT2G19310	23.2047	114.045	2.297114246	0.00005	0.000282578
AT2G19390	5.72028	7.27181	0.346228738	0.0027	0.0101192
AT2G19480	85.1824	109.505	0.362369462	0.0001	0.000537698
AT2G19520	30.7426	24.314	-0.338451927	0.0018	0.00711608
AT2G19540	35.0911	45.3218	0.369099988	0.0002	0.00101248
AT2G19570	24.666	37.5075	0.604655328	0.00005	0.000282578
AT2G19590	2.94288	4.62153	0.651141833	0.00005	0.000282578
AT2G19620	10.0143	5.28164	-0.923003705	0.00005	0.000282578
AT2G19650	4.6172	8.83113	0.935579826	0.00005	0.000282578
AT2G19680	46.6339	30.7807	-0.599353046	0.0001	0.000537698
AT2G19730	280.453	210.261	-0.415577737	0.00005	0.000282578
AT2G19750	68.4826	83.3246	0.283005011	0.01165	0.0351616
AT2G19760	238.482	190.178	-0.326530016	0.0011	0.00462106
AT2G19780	2.83111	1.78999	-0.661416277	0.00175	0.00694124
AT2G19790	73.609	54.0189	-0.44641791	0.00005	0.000282578
AT2G19800	57.7836	21.97	-1.395125219	0.00005	0.000282578
AT2G19830	126.39	86.4061	-0.548677251	0.00005	0.000282578
AT2G19860	16.1553	19.5213	0.273041589	0.0138	0.0405566
AT2G19880	22.2375	34.0366	0.614092324	0.00005	0.000282578
AT2G19910	1.38323	1.94083	0.488632692	0.0076	0.024527
AT2G19920	1.46353	0.901501	-0.699051322	0.002	0.00779418
AT2G19930	3.57357	4.76385	0.414761939	0.0024	0.0091296
AT2G19940	38.9619	30.0527	-0.374569421	0.00675	0.0221564
AT2G20000	13.9644	11.0839	-0.333287988	0.002	0.00779418



AT2G20020	18.5702	25.141	0.437052682	0.0001	0.000537698
AT2G20110	1.55921	0.854721	-0.867289774	0.0007	0.00310863
AT2G20140	33.0728	26.5501	-0.316927897	0.00295	0.0109262
AT2G20142	2.26175	5.30311	1.229399202	0.00005	0.000282578
AT2G20180	19.5134	14.6375	-0.414796003	0.00045	0.00210009
AT2G20230	123.34	96.3921	-0.355653934	0.0004	0.00188925
AT2G20250	2.57718	1.49936	-0.781446485	0.00035	0.00167549
AT2G20260	1788.92	795.775	-1.168656391	0.00005	0.000282578
AT2G20290	4.9044	2.1129	-1.214852161	0.00005	0.000282578
AT2G20310	5.45243	7.1305	0.387103901	0.00945	0.0294592
AT2G20320	6.66514	9.07129	0.444672547	0.01505	0.043598
AT2G20360	97.3498	76.1605	-0.354135065	0.0003	0.00145851
AT2G20390	12.0264	18.6925	0.636254684	0.00005	0.000282578
AT2G20400	4.52682	6.58889	0.5415375	0.0002	0.00101248
AT2G20440	6.82483	9.24894	0.438494921	0.00145	0.00588787
AT2G20450	90.6106	72.2277	-0.327127602	0.00235	0.00897001
AT2G20490	44.3079	61.4212	0.471172748	0.0005	0.00230701
AT2G20495	8.35404	12.8753	0.624060092	0.00155	0.00624225
AT2G20560	3.0756	30.9921	3.332960725	0.00005	0.000282578
AT2G20562	2.99703	5.22871	0.802921531	0.0109	0.0332243
AT2G20570	126.532	67.5583	-0.905297359	0.00005	0.000282578
AT2G20580	63.1535	49.5906	-0.34879601	0.00085	0.00368886
AT2G20590	3.15798	1.371	-1.203773463	0.00005	0.000282578
AT2G20635	4.16767	2.6401	-0.658648472	0.00765	0.024665
AT2G20670	125.383	73.3718	-0.77304417	0.00005	0.000282578
AT2G20680	5.23376	2.99589	-0.804863116	0.00005	0.000282578
AT2G20710	2.08062	3.31989	0.674121942	0.0057	0.0191634
AT2G20720	1.65503	2.86512	0.791738196	0.001	0.00425239
AT2G20725	23.4262	18.2662	-0.358946417	0.0009	0.00387377
AT2G20740	44.4022	32.1463	-0.465978465	0.00015	0.000779873
AT2G20780	15.0538	21.4209	0.508891387	0.0165	0.0470756
AT2G20810	16.9159	20.9434	0.308115735	0.00875	0.0275984
AT2G20880	1.23782	0.517611	-1.257861355	0.00305	0.0112447
AT2G20890	387.225	284.318	-0.445666661	0.0001	0.000537698
AT2G20920	75.4542	59.2813	-0.348024122	0.00075	0.0032996
AT2G20930	26.9464	19.925	-0.43551282	0.001	0.00425239
AT2G20950	25.129	30.3606	0.272847041	0.0112	0.0340068
AT2G20990	164.991	112.731	-0.549503032	0.00005	0.000282578
AT2G21045	45.5843	33.1826	-0.458110089	0.00005	0.000282578
AT2G21080	10.2773	7.22511	-0.508369839	0.00035	0.00167549
AT2G21090	2.92215	3.86865	0.404799976	0.0172	0.048727
AT2G21130	31.436	44.8377	0.512294618	0.00005	0.000282578
AT2G21140	89.6222	23.3925	-1.937810088	0.00005	0.000282578
AT2G21160	111.062	92.0986	-0.27011415	0.00805	0.0257287
AT2G21170	319.041	246.234	-0.373711854	0.00035	0.00167549
AT2G21180	10.8881	17.5838	0.69149466	0.00005	0.000282578
AT2G21185	38.5376	52.0125	0.432591655	0.00105	0.00443869

AT2G21190	30.4564	38.3141	0.331129994	0.00175	0.00694124
AT2G21210	88.3149	43.0932	-1.035196628	0.00005	0.000282578
AT2G21250	93.458	67.8241	-0.462520165	0.0002	0.00101248
AT2G21280	60.0671	35.1417	-0.773391029	0.00005	0.000282578
AT2G21300	20.0753	14.0311	-0.51679343	0.00005	0.000282578
AT2G21320	5.82128	8.26019	0.504838555	0.00385	0.0137217
AT2G21380	33.0979	18.0927	-0.871331964	0.00005	0.000282578
AT2G21390	57.9858	45.706	-0.34331608	0.003	0.0110887
AT2G21430	0.853236	4.27466	2.324792932	0.00455	0.015822
AT2G21440	13.5528	17.0707	0.332931276	0.00185	0.00728767
AT2G21500	7.91707	12.4911	0.657862018	0.00005	0.000282578
AT2G21520	57.0384	40.2576	-0.502672346	0.00005	0.000282578
AT2G21530	152.409	116.267	-0.390506423	0.0017	0.00676327
AT2G21540	25.6286	12.871	-0.993630525	0.00005	0.000282578
AT2G21560	16.232	23.6563	0.543383674	0.00005	0.000282578
AT2G21580	103.617	86.5812	-0.259135018	0.01455	0.0423789
AT2G21590	6.26648	3.55785	-0.816649594	0.003	0.0110887
AT2G21620	104.393	81.7806	-0.352194424	0.00155	0.00624225
AT2G21640	3.58458	9.31723	1.378097017	0.00005	0.000282578
AT2G21650	12.6506	2.78908	-2.18134459	0.00005	0.000282578
AT2G21710	4.47442	5.9145	0.402555527	0.00515	0.0175936
AT2G21770	0.327981	0.561914	0.776737104	0.0102	0.0314297
AT2G21790	22.7552	18.1485	-0.326345954	0.0019	0.00745613
AT2G21830	10.7434	7.98985	-0.427210317	0.0009	0.00387377
AT2G21840	3.61119	2.77788	-0.37849005	0.01305	0.0386862
AT2G21850	3.58974	5.46375	0.606012118	0.01715	0.0486055
AT2G21870	274.271	224.547	-0.28858464	0.00455	0.015822
AT2G21880	9.77397	6.53248	-0.581313874	0.0005	0.00230701
AT2G21900	0	0.700152	inf	0.00005	0.000282578
AT2G21960	95.1233	51.4476	-0.886694988	0.00005	0.000282578
AT2G21970	44.316	114.977	1.37544572	0.00005	0.000282578
AT2G22010	12.8584	16.0374	0.318729134	0.00335	0.0121887
AT2G22070	0.727092	1.68559	1.213043833	0.00005	0.000282578
AT2G22122	53.1382	19.6188	-1.437512558	0.00005	0.000282578
AT2G22125	42.975	31.687	-0.439606562	0.00005	0.000282578
AT2G22170	169.704	116.489	-0.542826842	0.00005	0.000282578
AT2G22190	13.859	10.5753	-0.390124573	0.0025	0.00945953
AT2G22200	1.88867	0.817535	-1.208018246	0.0005	0.00230701
AT2G22230	53.9191	27.8819	-0.951467539	0.00005	0.000282578
AT2G22270	11.3617	7.67284	-0.566346139	0.0002	0.00101248
AT2G22290	1.65877	0.727765	-1.188569285	0.00555	0.0187351
AT2G22360	19.5368	28.4463	0.542046831	0.00005	0.000282578
AT2G22400	31.7729	22.1145	-0.522804151	0.00005	0.000282578
AT2G22410	0.886134	1.39062	0.650131461	0.0137	0.040313
AT2G22420	3.80921	12.7354	1.741280543	0.00005	0.000282578
AT2G22500	15.7284	25.1594	0.6777256	0.00005	0.000282578
AT2G22590	0.863224	2.99422	1.794373346	0.00005	0.000282578

AT2G22610	5.07448	2.07686	-1.288856024	0.00005	0.000282578
AT2G22630	2.03465	0.941764	-1.111343164	0.00125	0.00516712
AT2G22650	4.64075	6.41454	0.46698783	0.0044	0.0153749
AT2G22670	122.612	86.4967	-0.503383184	0.00005	0.000282578
AT2G22690	5.59613	7.65422	0.451825891	0.0041	0.0144768
AT2G22740	10.2484	7.51629	-0.447306055	0.00075	0.0032996
AT2G22770	19.7219	23.9198	0.27840678	0.01555	0.0447988
AT2G22795	41.4094	29.981	-0.465909795	0.00005	0.000282578
AT2G22830	8.85242	4.47955	-0.982718089	0.00005	0.000282578
AT2G22840	15.6275	7.12146	-1.133842053	0.00005	0.000282578
AT2G22860	3.25524	5.96535	0.873842873	0.0044	0.0153749
AT2G22910	8.49131	13.0627	0.621394078	0.00005	0.000282578
AT2G22920	10.6992	15.1101	0.498010281	0.00005	0.000282578
AT2G22990	337.153	108.042	-1.641811183	0.00005	0.000282578
AT2G23010	2.02155	8.20294	2.020679189	0.00005	0.000282578
AT2G23030	15.6276	9.80008	-0.673230803	0.00005	0.000282578
AT2G23070	75.3802	62.546	-0.269268	0.0074	0.0239743
AT2G23090	480.473	579.307	0.269872736	0.01255	0.0374311
AT2G23100	3.80706	1.94262	-0.970673587	0.00005	0.000282578
AT2G23120	178.638	91.4179	-0.966490421	0.00005	0.000282578
AT2G23130	52.1135	18.8649	-1.465952698	0.00005	0.000282578
AT2G23150	9.61051	39.7263	2.047409533	0.00005	0.000282578
AT2G23170	4.74358	7.85636	0.727884761	0.00005	0.000282578
AT2G23200	5.89039	14.2056	1.270024705	0.00005	0.000282578
AT2G23270	0.320068	1.83855	2.522118061	0.01705	0.0483657
AT2G23300	2.62822	4.46077	0.76320672	0.00005	0.000282578
AT2G23320	44.8812	54.5876	0.282462019	0.0063	0.0208862
AT2G23340	9.62476	19.5408	1.021667061	0.00005	0.000282578
AT2G23430	14.3338	17.8583	0.317173622	0.01625	0.0464987
AT2G23450	14.9508	19.7643	0.402674176	0.00015	0.000779873
AT2G23530	1.49359	0.902894	-0.726155643	0.0071	0.0231313
AT2G23540	33.2064	39.7138	0.258179087	0.0143	0.0417688
AT2G23560	3.6068	2.41393	-0.579335586	0.01435	0.0418949
AT2G23590	0.72841	1.96164	1.429237669	0.0013	0.00534838
AT2G23600	122.735	81.2606	-0.594918795	0.00005	0.000282578
AT2G23620	11.6251	4.78469	-1.280745766	0.00005	0.000282578
AT2G23680	4.47258	12.9309	1.531643498	0.00005	0.000282578
AT2G23690	5.47893	7.58948	0.47010687	0.0118	0.0355426
AT2G23760	18.1719	13.4685	-0.432120086	0.0001	0.000537698
AT2G23770	6.75082	5.31755	-0.344301059	0.00915	0.0286771
AT2G23790	17.4264	33.6165	0.947894962	0.00005	0.000282578
AT2G23820	22.0669	16.4576	-0.423130007	0.0005	0.00230701
AT2G23840	44.7168	19.9645	-1.16338001	0.00005	0.000282578
AT2G23910	3.04381	16.7071	2.456511123	0.00005	0.000282578
AT2G23940	33.8172	26.2989	-0.362754755	0.01475	0.0428657
AT2G23950	9.08843	12.9698	0.513053233	0.00005	0.000282578
AT2G23960	1.02101	1.98392	0.958356855	0.0077	0.0247988

AT2G23970	1.0788	0	-inf	0.00005	0.000282578
AT2G24000	0.615845	1.96954	1.677219523	0.0001	0.000537698
AT2G24020	143.926	69.5387	-1.049439234	0.00005	0.000282578
AT2G24050	17.4592	13.5992	-0.36046567	0.0006	0.00271108
AT2G24060	55.6078	37.1255	-0.582876805	0.00005	0.000282578
AT2G24090	374.841	157.497	-1.250954415	0.00005	0.000282578
AT2G24100	9.01611	11.1323	0.304174671	0.01595	0.0457738
AT2G24120	12.8611	21.9151	0.768911221	0.00005	0.000282578
AT2G24180	26.5149	53.2269	1.005352237	0.00005	0.000282578
AT2G24240	6.34586	4.14094	-0.615857394	0.0001	0.000537698
AT2G24280	21.7748	38.5247	0.823124254	0.00005	0.000282578
AT2G24290	23.6095	18.6407	-0.340911451	0.0082	0.026125
AT2G24300	6.03177	3.90753	-0.626324468	0.00005	0.000282578
AT2G24390	10.4291	22.1953	1.089639546	0.00005	0.000282578
AT2G24395	30.6635	18.1918	-0.75323408	0.00005	0.000282578
AT2G24420	71.8909	59.395	-0.275467678	0.00575	0.0193124
AT2G24520	6.73984	8.85424	0.393654136	0.00115	0.00480526
AT2G24530	3.11178	4.34703	0.482289985	0.00345	0.0125039
AT2G24540	3.73494	6.37789	0.771994149	0.00005	0.000282578
AT2G24550	36.6947	29.6527	-0.307408228	0.0047	0.0162675
AT2G24580	15.2338	29.5666	0.956692491	0.00005	0.000282578
AT2G24590	42.5877	30.4043	-0.486161443	0.00005	0.000282578
AT2G24600	7.8065	15.3495	0.975443887	0.00005	0.000282578
AT2G24645	2.47946	4.02825	0.700127271	0.0003	0.00145851
AT2G24650	7.06612	8.93419	0.338418686	0.00375	0.0134211
AT2G24762	19.2629	28.1663	0.548145145	0.00005	0.000282578
AT2G24765	59.2554	40.4925	-0.549291917	0.00005	0.000282578
AT2G24830	8.74914	17.0259	0.960517943	0.00355	0.0128096
AT2G24860	33.247	16.4994	-1.010810605	0.00005	0.000282578
AT2G24940	349.815	547.293	0.645721251	0.00005	0.000282578
AT2G24960	2.24278	3.18984	0.508195952	0.0076	0.024527
AT2G25000	11.8219	27.67	1.226860722	0.00005	0.000282578
AT2G25050	5.87125	4.28975	-0.452774116	0.0001	0.000537698
AT2G25060	48.3968	22.4345	-1.109192629	0.00005	0.000282578
AT2G25070	46.2399	35.2489	-0.391560041	0.0002	0.00101248
AT2G25080	516.22	100.823	-2.356161249	0.00005	0.000282578
AT2G25110	34.005	70.7584	1.057154534	0.00005	0.000282578
AT2G25130	0.737055	0.3265	-1.174689287	0.0079	0.0253358
AT2G25140	7.82084	15.773	1.01206161	0.00005	0.000282578
AT2G25160	8.92973	11.4889	0.363552215	0.00365	0.0131214
AT2G25180	20.9671	13.2788	-0.659002557	0.00005	0.000282578
AT2G25190	15.9293	12.2213	-0.382285115	0.0039	0.0138733
AT2G25220	6.04105	2.43778	-1.309231393	0.00005	0.000282578
AT2G25240	2.52988	1.63609	-0.628816843	0.00715	0.0232695
AT2G25280	34.6352	25.011	-0.469676264	0.00005	0.000282578
AT2G25290	4.54941	6.17068	0.439750023	0.00115	0.00480526
AT2G25297	0.462905	2.69391	2.540913602	0.0061	0.0203154

AT2G25430	49.8539	61.8464	0.310983251	0.00165	0.00658915
AT2G25440	0	0.596696	inf	0.00005	0.000282578
AT2G25450	613.629	502.257	-0.2889409	0.00785	0.0252038
AT2G25470	0.694262	6.9747	3.328579051	0.00005	0.000282578
AT2G25480	16.8964	8.09695	-1.06126542	0.00005	0.000282578
AT2G25490	50.0514	59.0183	0.237751941	0.01735	0.0490658
AT2G25510	49.7062	527.088	3.406546127	0.00005	0.000282578
AT2G25520	58.6696	76.639	0.385465581	0.00015	0.000779873
AT2G25590	11.9372	15.5349	0.380048478	0.0046	0.01597
AT2G25625	10.5812	30.5021	1.527405321	0.00005	0.000282578
AT2G25680	1.95628	4.11532	1.07289174	0.00005	0.000282578
AT2G25690	4.18204	6.53777	0.644591763	0.00005	0.000282578
AT2G25710	16.257	11.9328	-0.446128446	0.0013	0.00534838
AT2G25730	19.2748	23.5584	0.289525669	0.00385	0.0137217
AT2G25740	8.13582	12.4148	0.609701354	0.00005	0.000282578
AT2G25780	1.21995	3.64113	1.577564231	0.00135	0.00552942
AT2G25790	6.19884	14.0477	1.180263769	0.00005	0.000282578
AT2G25800	22.6533	17.0286	-0.4117614	0.00005	0.000282578
AT2G25810	18.7296	13.7558	-0.445280044	0.0009	0.00387377
AT2G25880	10.7802	4.4745	-1.26858556	0.00005	0.000282578
AT2G25900	63.1532	19.4974	-1.695574086	0.00005	0.000282578
AT2G25930	30.924	37.8213	0.29047201	0.0046	0.01597
AT2G25950	25.2525	32.0664	0.344636174	0.0109	0.0332243
AT2G26000	5.18686	6.91535	0.414940841	0.0046	0.01597
AT2G26040	3.66064	1.72684	-1.083961485	0.0001	0.000537698
AT2G26070	11.4809	8.69184	-0.401502218	0.00735	0.0238331
AT2G26080	186.787	148.752	-0.328484984	0.00225	0.00863481
AT2G26150	0.474418	4.61542	3.282231284	0.00005	0.000282578
AT2G26170	7.21225	21.0499	1.545292068	0.00005	0.000282578
AT2G26190	23.5773	18.1281	-0.37917079	0.00025	0.00123846
AT2G26230	34.2016	27.0624	-0.337774029	0.01285	0.0381931
AT2G26250	189.268	111.91	-0.758091554	0.00005	0.000282578
AT2G26260	8.3402	11.9259	0.515944259	0.00005	0.000282578
AT2G26310	1.15946	6.38584	2.461423356	0.00005	0.000282578
AT2G26330	24.51	14.4328	-0.764019271	0.00005	0.000282578
AT2G26340	65.1801	49.5377	-0.395904679	0.00015	0.000779873
AT2G26370	1.88707	3.49295	0.888298051	0.00885	0.0278636
AT2G26400	0.27233	2.14695	2.978860769	0.00035	0.00167549
AT2G26420	0.941984	1.65154	0.810037451	0.00055	0.00251246
AT2G26480	1.67529	2.79483	0.738349678	0.00135	0.00552942
AT2G26510	34.1262	26.3941	-0.370664304	0.0002	0.00101248
AT2G26520	1.12677	0.351393	-1.681035701	0.0054	0.0183008
AT2G26530	11.4861	15.953	0.473938725	0.0001	0.000537698
AT2G26540	32.3303	19.2067	-0.751277231	0.00005	0.000282578
AT2G26550	28.4851	12.0345	-1.243031268	0.00005	0.000282578
AT2G26560	9.45101	23.8713	1.336736717	0.00005	0.000282578
AT2G26580	32.2675	23.8916	-0.433578333	0.0004	0.00188925

AT2G26640	22.5321	16.551	-0.445063393	0.00775	0.0249349
AT2G26660	29.4544	59.5434	1.015458439	0.00005	0.000282578
AT2G26670	101.917	63.1244	-0.691125042	0.00005	0.000282578
AT2G26730	37.1959	28.1721	-0.400876497	0.00005	0.000282578
AT2G26740	47.0609	108.223	1.201406323	0.00005	0.000282578
AT2G26760	8.42434	4.66685	-0.852114566	0.00005	0.000282578
AT2G26810	9.30846	5.82233	-0.676945895	0.0004	0.00188925
AT2G26820	1.05924	0.141454	-2.90462463	0.0001	0.000537698
AT2G26830	13.6298	10.0805	-0.435197193	0.00125	0.00516712
AT2G26860	4.34993	6.15385	0.500497093	0.00195	0.00762526
AT2G26910	61.162	36.763	-0.734381083	0.00005	0.000282578
AT2G26975	54.6304	66.8613	0.291467419	0.00595	0.0198839
AT2G26980	69.5246	32.8822	-1.080216713	0.00005	0.000282578
AT2G27020	110.426	89.023	-0.310829873	0.00165	0.00658915
AT2G27050	53.1742	37.345	-0.509811325	0.00005	0.000282578
AT2G27080	10.042	15.9332	0.665989415	0.0029	0.0107667
AT2G27140	9.98399	6.28194	-0.668406326	0.00055	0.00251246
AT2G27170	18.6281	14.4362	-0.367789496	0.0005	0.00230701
AT2G27190	66.7602	171.106	1.357830168	0.00005	0.000282578
AT2G27290	79.6604	52.0803	-0.613124965	0.00005	0.000282578
AT2G27340	8.80342	6.42081	-0.45530879	0.01635	0.0467368
AT2G27380	0.492152	0.110571	-2.154130905	0.0036	0.0129656
AT2G27385	239.582	65.6852	-1.866879273	0.00005	0.000282578
AT2G27402	42.1996	14.2467	-1.566601541	0.00005	0.000282578
AT2G27420	1.61141	3.85555	1.258613064	0.00005	0.000282578
AT2G27430	2.72948	1.46608	-0.896662296	0.0005	0.00230701
AT2G27500	23.3992	37.7512	0.690063298	0.00005	0.000282578
AT2G27530	251.071	164.023	-0.61419727	0.00005	0.000282578
AT2G27550	1.69784	7.55499	2.153729336	0.00005	0.000282578
AT2G27580	29.8155	41.3905	0.473237146	0.00005	0.000282578
AT2G27600	81.9702	66.3619	-0.304744325	0.00315	0.0115529
AT2G27660	7.04259	10.5089	0.577433665	0.00005	0.000282578
AT2G27680	122.283	93.4754	-0.387565207	0.00005	0.000282578
AT2G27710	205.068	160.734	-0.351427249	0.00035	0.00167549
AT2G27720	183.915	118.113	-0.638871388	0.00005	0.000282578
AT2G27770	8.28938	6.51396	-0.347729339	0.0123	0.0368055
AT2G27810	19.3644	14.7656	-0.391166819	0.0004	0.00188925
AT2G27830	24.3316	70.4702	1.534182116	0.00005	0.000282578
AT2G27860	228.183	152.511	-0.58127801	0.00005	0.000282578
AT2G27930	4.1271	1.38503	-1.57521117	0.00005	0.000282578
AT2G27950	20.9411	17.6357	-0.247838386	0.0165	0.0470756
AT2G27970	29.1412	18.7681	-0.634777682	0.00945	0.0294592
AT2G28070	11.2702	14.2186	0.335266303	0.00495	0.0169989
AT2G28080	10.1584	14.1949	0.482699497	0.0002	0.00101248
AT2G28100	19.4265	10.7062	-0.859579491	0.00005	0.000282578
AT2G28110	10.3331	14.8595	0.524112435	0.0072	0.0234061
AT2G28130	5.40183	3.54769	-0.606568286	0.00005	0.000282578

AT2G28150	13.5055	9.4206	-0.519656199	0.0003	0.00145851
AT2G28160	5.36759	3.34549	-0.682056945	0.0011	0.00462106
AT2G28190	72.4904	24.6142	-1.558299099	0.00005	0.000282578
AT2G28200	7.07012	9.97757	0.496953793	0.0009	0.00387377
AT2G28270	1.87446	0.119034	-3.977029421	0.0102	0.0314297
AT2G28320	11.4142	15.0958	0.403317467	0.00015	0.000779873
AT2G28350	9.01529	13.2095	0.551130054	0.00005	0.000282578
AT2G28360	14.4917	10.4496	-0.471779127	0.00005	0.000282578
AT2G28400	1.5743	5.04983	1.681524333	0.00005	0.000282578
AT2G28470	54.4421	35.48	-0.617716707	0.00005	0.000282578
AT2G28500	1.02858	2.02936	0.980370809	0.0039	0.0138733
AT2G28540	14.4762	17.6404	0.28520033	0.00585	0.0195962
AT2G28550	68.5531	41.7215	-0.716430879	0.00005	0.000282578
AT2G28560	1.42854	0.402007	-1.829248905	0.00015	0.000779873
AT2G28570	14.5798	18.6817	0.357654814	0.01015	0.0312969
AT2G28620	7.90201	3.60441	-1.132456546	0.00005	0.000282578
AT2G28630	60.586	22.0751	-1.456564486	0.00005	0.000282578
AT2G28660	13.6909	27.5259	1.007572447	0.00005	0.000282578
AT2G28720	88.5074	62.6233	-0.499098547	0.00005	0.000282578
AT2G28740	64.3298	42.9304	-0.583487588	0.00005	0.000282578
AT2G28760	11.8591	7.81933	-0.600877626	0.00005	0.000282578
AT2G28780	4.34771	1.16275	-1.902714773	0.00005	0.000282578
AT2G28790	22.9291	15.468	-0.567893059	0.00005	0.000282578
AT2G28800	314.305	134.428	-1.225331555	0.00005	0.000282578
AT2G28810	13.552	17.7314	0.38780067	0.0016	0.00641937
AT2G28830	4.31462	3.07343	-0.489383876	0.005	0.0171523
AT2G28840	179.811	151.296	-0.249107435	0.013	0.0385744
AT2G28890	26.2054	18.2346	-0.523185578	0.00005	0.000282578
AT2G28900	234.19	195.304	-0.261957976	0.0095	0.029588
AT2G28910	184.662	242.843	0.395136884	0.00005	0.000282578
AT2G28930	26.5992	17.4729	-0.606263782	0.00005	0.000282578
AT2G28960	4.0676	2.94894	-0.463981345	0.0014	0.00571151
AT2G28990	2.59826	1.31011	-0.987857855	0.00005	0.000282578
AT2G29050	7.76376	5.56197	-0.481159558	0.0012	0.00498818
AT2G29060	4.39818	2.56429	-0.778347221	0.00005	0.000282578
AT2G29065	2.15569	2.93364	0.444542117	0.01605	0.0460241
AT2G29080	43.8827	30.5352	-0.523179	0.00005	0.000282578
AT2G29120	5.25823	10.2799	0.967177077	0.00005	0.000282578
AT2G29125	2.20461	3.90412	0.824473935	0.0046	0.01597
AT2G29130	1.35337	0.666552	-1.02176698	0.0009	0.00387377
AT2G29140	14.1206	17.3759	0.299286314	0.0046	0.01597
AT2G29170	24.2266	11.6851	-1.051921868	0.00005	0.000282578
AT2G29220	0	0.585309	inf	0.00005	0.000282578
AT2G29260	0.804334	2.37481	1.561945483	0.00005	0.000282578
AT2G29290	52.347	19.3927	-1.432593178	0.00005	0.000282578
AT2G29300	7.68473	3.85194	-0.996409341	0.00005	0.000282578
AT2G29320	32.7362	48.984	0.581423724	0.00005	0.000282578

AT2G29330	4.0059	6.39162	0.674055231	0.0011	0.00462106
AT2G29350	0.954116	10.9645	3.522531536	0.00005	0.000282578
AT2G29360	69.5441	49.5688	-0.488495791	0.00005	0.000282578
AT2G29370	0.740586	1.72272	1.217949052	0.00295	0.0109262
AT2G29400	60.4988	83.9238	0.472173477	0.00005	0.000282578
AT2G29420	60.1668	103.562	0.783455199	0.00005	0.000282578
AT2G29440	2.36745	3.84518	0.699717178	0.00175	0.00694124
AT2G29450	39.4154	142.572	1.854859355	0.00005	0.000282578
AT2G29460	2.24876	5.61483	1.320112646	0.00005	0.000282578
AT2G29485	2.81462	0.537027	-2.389873629	0.0046	0.01597
AT2G29500	4.682	9.69702	1.050416525	0.00005	0.000282578
AT2G29530	55.716	82.9934	0.574904925	0.00015	0.000779873
AT2G29550	90.5789	58.3243	-0.635077932	0.00005	0.000282578
AT2G29630	251.717	328.111	0.382381307	0.0003	0.00145851
AT2G29650	94.4019	25.0654	-1.913118639	0.00005	0.000282578
AT2G29660	12.8837	19.6078	0.605880701	0.00005	0.000282578
AT2G29680	3.04171	1.30505	-1.22077753	0.00005	0.000282578
AT2G29690	17.4047	13.0572	-0.41463139	0.0002	0.00101248
AT2G29700	39.1051	30.6452	-0.351695653	0.002	0.00779418
AT2G29720	5.0702	13.2649	1.387499237	0.00005	0.000282578
AT2G29740	10.6192	5.11671	-1.053386711	0.00005	0.000282578
AT2G29760	2.28611	4.40939	0.947684263	0.00005	0.000282578
AT2G29890	7.16643	5.25154	-0.448514059	0.00055	0.00251246
AT2G29900	9.77169	12.2942	0.331297859	0.0148	0.0429916
AT2G29940	2.07452	3.18878	0.620227001	0.00005	0.000282578
AT2G29980	68.0766	55.6808	-0.289979046	0.00435	0.0152293
AT2G30010	58.3425	33.1448	-0.81576466	0.00005	0.000282578
AT2G30020	6.24102	9.73866	0.641941442	0.00005	0.000282578
AT2G30040	5.72408	11.5445	1.01208995	0.00005	0.000282578
AT2G30050	38.3485	30.1408	-0.347452438	0.002	0.00779418
AT2G30070	10.8808	15.187	0.481052279	0.00015	0.000779873
AT2G30100	7.17678	11.0572	0.623577499	0.00005	0.000282578
AT2G30105	15.932	12.3476	-0.367696732	0.00435	0.0152293
AT2G30130	0.644995	1.67563	1.377343737	0.00165	0.00658915
AT2G30140	18.0284	36.1521	1.003808088	0.00005	0.000282578
AT2G30150	9.63941	12.5022	0.375165236	0.005	0.0171523
AT2G30200	46.013	27.779	-0.728046856	0.00005	0.000282578
AT2G30250	19.6903	30.1365	0.614026782	0.00005	0.000282578
AT2G30260	40.3773	33.7182	-0.26001692	0.0175	0.0494159
AT2G30270	17.612	13.1371	-0.422911912	0.0039	0.0138733
AT2G30400	2.30476	1.48588	-0.633298919	0.017	0.0482529
AT2G30424	18.9101	7.09654	-1.413969294	0.00005	0.000282578
AT2G30460	10.6677	6.46654	-0.722183266	0.00005	0.000282578
AT2G30480	2.42954	5.64662	1.21670436	0.00005	0.000282578
AT2G30490	87.0708	180.718	1.053479326	0.00005	0.000282578
AT2G30520	187.381	136.581	-0.456217872	0.00005	0.000282578
AT2G30540	3.5267	11.9019	1.754801139	0.00005	0.000282578



AT2G30550	9.66104	36.7003	1.925541449	0.00005	0.000282578
AT2G30570	3340.62	988.161	-1.757297861	0.00005	0.000282578
AT2G30580	4.7139	7.44224	0.658815762	0.00005	0.000282578
AT2G30600	119.257	51.6636	-1.206853869	0.00005	0.000282578
AT2G30615	11.954	4.75548	-1.329830574	0.00895	0.028133
AT2G30620	133.657	103.503	-0.368862813	0.0001	0.000537698
AT2G30660	0.555911	0.101886	-2.447898103	0.01295	0.0384474
AT2G30670	0.291522	1.18863	2.027623032	0.00415	0.0146251
AT2G30695	37.1809	15.2087	-1.289664852	0.00005	0.000282578
AT2G30700	18.8005	22.6933	0.271495386	0.0109	0.0332243
AT2G30710	18.8291	13.0056	-0.533831085	0.00005	0.000282578
AT2G30750	1.7565	34.0442	4.27663355	0.00005	0.000282578
AT2G30800	8.05566	6.56081	-0.296128852	0.0085	0.0269248
AT2G30820	1.90362	1.20403	-0.660874178	0.01765	0.0497604
AT2G30860	918.569	1148.1	0.321788306	0.0096	0.0298585
AT2G30870	498.1	708.436	0.508202115	0.00005	0.000282578
AT2G30930	130.517	71.2798	-0.872672538	0.00005	0.000282578
AT2G30950	448.347	264.848	-0.75945113	0.00005	0.000282578
AT2G30980	83.4017	47.2375	-0.820144177	0.00005	0.000282578
AT2G30990	23.5997	17.1122	-0.463743271	0.00005	0.000282578
AT2G31010	12.7601	3.36922	-1.921153095	0.00005	0.000282578
AT2G31060	13.0157	19.4837	0.582014771	0.00005	0.000282578
AT2G31082	0.684313	0	-inf	0.00015	0.000779873
AT2G31083	7.28916	0.675292	-3.432169197	0.00005	0.000282578
AT2G31085	3.29035	1.54079	-1.094570809	0.007	0.0228553
AT2G31110	9.21202	17.2581	0.905684194	0.00005	0.000282578
AT2G31200	27.6415	35.0602	0.342998318	0.0033	0.0120328
AT2G31230	6.79393	13.1871	0.956809075	0.00005	0.000282578
AT2G31260	10.686	13.9029	0.379663923	0.0005	0.00230701
AT2G31270	6.86768	3.9858	-0.784953498	0.00005	0.000282578
AT2G31280	9.57059	12.1714	0.346815351	0.0035	0.0126552
AT2G31350	35.5829	48.7976	0.455626099	0.0001	0.000537698
AT2G31360	206.642	87.2931	-1.243193985	0.00005	0.000282578
AT2G31380	17.9627	5.44208	-1.72277415	0.0002	0.00101248
AT2G31400	128.524	102.625	-0.324655565	0.0013	0.00534838
AT2G31490	146.603	119.976	-0.289168788	0.00635	0.0210292
AT2G31560	10.4912	39.13	1.899095405	0.00005	0.000282578
AT2G31570	195.171	120.638	-0.694054286	0.00005	0.000282578
AT2G31610	154.72	127.965	-0.273910431	0.0058	0.0194564
AT2G31650	3.94083	2.8855	-0.449678185	0.00155	0.00624225
AT2G31660	21.6161	27.265	0.334943901	0.00065	0.00291062
AT2G31740	10.476	13.9558	0.413776863	0.0001	0.000537698
AT2G31810	71.2799	57.2722	-0.31566029	0.00185	0.00728767
AT2G31820	15.5468	19.6718	0.339511312	0.00835	0.0265257
AT2G31865	2.0171	7.53411	1.901154488	0.00005	0.000282578
AT2G31880	21.4045	44.9629	1.070820954	0.00005	0.000282578
AT2G31890	12.9336	20.7474	0.681806656	0.00005	0.000282578

AT2G31945	1.55744	6.38318	2.035098746	0.00005	0.000282578
AT2G31970	7.85684	11.4016	0.537215208	0.00005	0.000282578
AT2G32010	9.95582	6.53258	-0.607887259	0.00005	0.000282578
AT2G32030	1.45253	2.63066	0.856856838	0.0054	0.0183008
AT2G32090	37.5832	22.4675	-0.742248307	0.0056	0.0188774
AT2G32100	25.391	8.3419	-1.605869292	0.00005	0.000282578
AT2G32120	2.62999	6.44823	1.29384589	0.00005	0.000282578
AT2G32140	0.072047	1.14214	3.986657334	0.0077	0.0247988
AT2G32150	80.6611	55.0206	-0.551901208	0.00005	0.000282578
AT2G32160	0.761149	3.0884	2.020608814	0.00005	0.000282578
AT2G32210	3.21221	5.55222	0.789498521	0.0072	0.0234061
AT2G32220	10.1009	15.0857	0.578697797	0.0047	0.0162675
AT2G32230	48.8516	35.5431	-0.458836299	0.00005	0.000282578
AT2G32240	47.2467	72.8479	0.624673818	0.00005	0.000282578
AT2G32260	48.3783	79.3397	0.713682868	0.00005	0.000282578
AT2G32290	2.54948	12.7167	2.318449412	0.00005	0.000282578
AT2G32320	9.93075	13.1923	0.409721528	0.00065	0.00291062
AT2G32340	3.08434	8.11514	1.395654175	0.00005	0.000282578
AT2G32390	8.64954	5.54924	-0.64033321	0.00045	0.00210009
AT2G32400	3.93187	6.70393	0.769791463	0.00005	0.000282578
AT2G32415	4.58913	3.43482	-0.417986178	0.01385	0.0406792
AT2G32440	18.7328	11.5911	-0.692549071	0.00005	0.000282578
AT2G32450	11.9108	9.30123	-0.3567769	0.0014	0.00571151
AT2G32480	74.1212	87.8806	0.245658481	0.0135	0.039819
AT2G32487	2.65442	12.2012	2.200554479	0.00005	0.000282578
AT2G32500	30.6607	22.7474	-0.430688978	0.0005	0.00230701
AT2G32510	2.30919	3.33736	0.531320435	0.01285	0.0381931
AT2G32530	2.89078	10.8309	1.905622406	0.00005	0.000282578
AT2G32540	12.6564	17.0269	0.427948693	0.00005	0.000282578
AT2G32550	0.980482	0.314343	-1.641151509	0.004	0.0141788
AT2G32590	3.31313	1.47347	-1.168977125	0.00555	0.0187351
AT2G32640	15.3931	9.1963	-0.743158368	0.00005	0.000282578
AT2G32660	0.902799	1.8314	1.020470202	0.00005	0.000282578
AT2G32690	351.115	150.296	-1.224137017	0.00005	0.000282578
AT2G32810	27.5585	20.2821	-0.442290329	0.0004	0.00188925
AT2G32830	0.260515	8.33483	4.999714426	0.00005	0.000282578
AT2G32860	25.6731	14.9011	-0.784838676	0.00005	0.000282578
AT2G32870	28.7043	20.6498	-0.475139065	0.00005	0.000282578
AT2G32880	34.6802	16.6579	-1.057905682	0.00005	0.000282578
AT2G32920	34.9859	50.5983	0.532315309	0.00005	0.000282578
AT2G32940	1.13868	0.439304	-1.374070827	0.00005	0.000282578
AT2G32960	8.03632	19.7871	1.299953269	0.00005	0.000282578
AT2G32980	18.7952	14.0536	-0.419424526	0.00125	0.00516712
AT2G32990	9.23701	14.0158	0.601556258	0.00005	0.000282578
AT2G33040	236.012	176.976	-0.415306488	0.00005	0.000282578
AT2G33060	3.05372	5.22647	0.775269082	0.00005	0.000282578
AT2G33170	8.25134	10.9164	0.40379683	0.0002	0.00101248

AT2G33180	22.4006	17.008	-0.397323873	0.00195	0.00762526
AT2G33205	4.01952	2.35671	-0.770248987	0.0004	0.00188925
AT2G33240	0.241146	0.995498	2.045511538	0.00005	0.000282578
AT2G33250	32.5186	43.7041	0.426503482	0.00015	0.000779873
AT2G33330	19.9149	14.6683	-0.441146558	0.00015	0.000779873
AT2G33380	1.57927	5.49288	1.798304932	0.00005	0.000282578
AT2G33400	9.0221	4.69725	-0.941646897	0.0001	0.000537698
AT2G33450	207.341	88.734	-1.224446516	0.00005	0.000282578
AT2G33460	24.549	11.5275	-1.090584592	0.00005	0.000282578
AT2G33480	11.0322	25.1639	1.189635018	0.00005	0.000282578
AT2G33490	8.70161	11.7871	0.43785455	0.00215	0.00830066
AT2G33530	9.20922	13.0132	0.498824897	0.00005	0.000282578
AT2G33550	10.3463	16.3152	0.657101743	0.00005	0.000282578
AT2G33560	5.94649	2.34484	-1.342548865	0.00005	0.000282578
AT2G33580	1.68498	3.70829	1.138022604	0.00005	0.000282578
AT2G33585	6.44248	9.00482	0.483081285	0.01435	0.0418949
AT2G33590	21.3008	26.3455	0.306648945	0.00645	0.0213006
AT2G33600	15.8648	10.9105	-0.540112116	0.00005	0.000282578
AT2G33630	32.7742	46.3292	0.499361205	0.00005	0.000282578
AT2G33680	1.30254	2.37072	0.863997602	0.00055	0.00251246
AT2G33740	38.771	63.2461	0.705998574	0.00005	0.000282578
AT2G33770	43.9642	94.5035	1.104038545	0.00005	0.000282578
AT2G33790	10.7122	0.865035	-3.630352485	0.00005	0.000282578
AT2G33793	5.22388	2.46027	-1.086305105	0.00005	0.000282578
AT2G33800	348.373	194.366	-0.841856941	0.00005	0.000282578
AT2G33810	5.51564	3.68349	-0.582454971	0.00975	0.0302521
AT2G33830	1716.35	525.196	-1.708415945	0.00005	0.000282578
AT2G33850	60.486	26.715	-1.17895124	0.00005	0.000282578
AT2G33855	31.3198	41.507	0.406279662	0.0007	0.00310863
AT2G33980	3.54131	5.22956	0.562406427	0.01215	0.0364357
AT2G33990	18.0813	11.3357	-0.673624925	0.00005	0.000282578
AT2G34010	3.92373	1.50726	-1.380297469	0.00005	0.000282578
AT2G34060	7.96391	4.60255	-0.791043523	0.00005	0.000282578
AT2G34070	21.694	34.4697	0.668032657	0.00005	0.000282578
AT2G34080	3.72249	8.51844	1.194321278	0.0017	0.00676327
AT2G34170	19.088	15.0878	-0.339283491	0.0043	0.0150809
AT2G34200	6.04992	4.27263	-0.501791677	0.00885	0.0278636
AT2G34210	0.941516	3.00739	1.675454452	0.00005	0.000282578
AT2G34260	4.88522	7.88355	0.690421895	0.00005	0.000282578
AT2G34300	24.555	18.2165	-0.430771027	0.00005	0.000282578
AT2G34340	1.48045	2.94064	0.99009441	0.0012	0.00498818
AT2G34355	4.86707	3.62786	-0.423934741	0.0084	0.0266576
AT2G34357	12.1392	17.1361	0.497365456	0.00005	0.000282578
AT2G34400	1.78172	2.98303	0.743507854	0.0003	0.00145851
AT2G34420	21645	2391.12	-3.178275361	0.00005	0.000282578
AT2G34430	8478.3	123.848	-6.09713254	0.00005	0.000282578
AT2G34460	90.6538	32.4105	-1.483906218	0.00005	0.000282578

AT2G34470	41.9135	65.3135	0.639966222	0.0003	0.00145851
AT2G34480	411.043	325.98	-0.334505872	0.00075	0.0032996
AT2G34490	28.313	69.7549	1.300829941	0.00005	0.000282578
AT2G34500	8.93318	11.7681	0.397635674	0.0011	0.00462106
AT2G34510	35.0107	17.8749	-0.969860736	0.00005	0.000282578
AT2G34585	47.5063	58.3149	0.295745705	0.00885	0.0278636
AT2G34590	93.547	56.1481	-0.736454184	0.00005	0.000282578
AT2G34620	50.3574	14.1394	-1.832482896	0.00005	0.000282578
AT2G34650	2.47488	3.38339	0.45111091	0.01305	0.0386862
AT2G34660	16.7392	34.1032	1.026676538	0.00005	0.000282578
AT2G34670	2.34421	1.59312	-0.557246875	0.0033	0.0120328
AT2G34680	26.776	17.4277	-0.619558272	0.00005	0.000282578
AT2G34690	43.0726	33.6091	-0.357918502	0.0009	0.00387377
AT2G34720	23.6802	35.5741	0.587145992	0.00005	0.000282578
AT2G34730	8.25017	12.9505	0.650512047	0.00005	0.000282578
AT2G34810	8.72721	35.7168	2.033010412	0.00005	0.000282578
AT2G34830	4.05135	2.77482	-0.546008538	0.0062	0.0206032
AT2G34840	8.00484	11.1193	0.474121496	0.0017	0.00676327
AT2G34900	13.0336	17.4837	0.423774904	0.00035	0.00167549
AT2G35050	83.511	63.3858	-0.397806564	0.00005	0.000282578
AT2G35060	23.0641	30.7343	0.41420063	0.00005	0.000282578
AT2G35140	0.795717	1.19084	0.581652261	0.01595	0.0457738
AT2G35190	18.1156	11.7462	-0.625038482	0.00005	0.000282578
AT2G35210	1.32566	2.28512	0.785559122	0.00325	0.0118728
AT2G35260	132.509	63.1351	-1.06957615	0.00005	0.000282578
AT2G35350	1.88212	2.52491	0.42387335	0.0155	0.0446831
AT2G35360	7.27991	9.82194	0.432087395	0.0057	0.0191634
AT2G35370	432.557	528.289	0.288437115	0.0042	0.0147771
AT2G35390	35.5637	42.3415	0.251666951	0.0145	0.0422563
AT2G35480	4.91711	2.90583	-0.758860327	0.0013	0.00534838
AT2G35490	101.387	72.2705	-0.488393899	0.00005	0.000282578
AT2G35550	0.431376	2.39397	2.472387255	0.00005	0.000282578
AT2G35605	21.6022	28.7148	0.410616267	0.0041	0.0144768
AT2G35620	25.0334	17.8229	-0.490122149	0.00005	0.000282578
AT2G35650	17.0216	7.89112	-1.10906467	0.00005	0.000282578
AT2G35690	11.3881	9.26002	-0.298439852	0.01315	0.0389337
AT2G35720	8.75447	10.8579	0.310653357	0.0142	0.0415192
AT2G35736	8.71745	15.2702	0.808740868	0.00085	0.00368886
AT2G35760	15.6471	9.49169	-0.721158408	0.00005	0.000282578
AT2G35770	3.91761	5.48688	0.48601224	0.0052	0.0177382
AT2G35800	28.9882	16.3631	-0.825019659	0.00005	0.000282578
AT2G35810	29.3763	39.9407	0.44320692	0.00025	0.00123846
AT2G35820	19.3044	27.7492	0.523516465	0.00995	0.030766
AT2G35840	43.9793	31.6185	-0.476055715	0.00005	0.000282578
AT2G35880	54.5565	35.4975	-0.62003367	0.00005	0.000282578
AT2G35930	7.11891	13.7305	0.947655895	0.00005	0.000282578
AT2G35940	29.4824	70.1621	1.250837958	0.00005	0.000282578

AT2G35960	30.2852	22.523	-0.427213936	0.00055	0.00251246
AT2G35980	2.63938	5.82461	1.141962379	0.00005	0.000282578
AT2G36010	4.80941	2.5976	-0.888680631	0.00005	0.000282578
AT2G36050	10.914	3.56631	-1.61367593	0.00005	0.000282578
AT2G36060	76.8036	61.3121	-0.325002116	0.00205	0.00796423
AT2G36100	71.5862	52.6192	-0.444092185	0.00055	0.00251246
AT2G36120	101.136	177.95	0.815175308	0.00005	0.000282578
AT2G36200	7.73237	3.56291	-1.117854632	0.00005	0.000282578
AT2G36220	49.1195	38.5922	-0.347986586	0.0064	0.0211702
AT2G36270	1.84683	3.38302	0.873260633	0.00005	0.000282578
AT2G36290	24.6751	37.2899	0.595728997	0.00005	0.000282578
AT2G36295	0.753714	2.00725	1.413131218	0.0035	0.0126552
AT2G36310	34.0356	17.1288	-0.990620459	0.00005	0.000282578
AT2G36320	72.5234	43.5888	-0.734489075	0.00005	0.000282578
AT2G36350	5.12438	3.60353	-0.507966607	0.0002	0.00101248
AT2G36380	47.4409	57.8572	0.286365126	0.0047	0.0162675
AT2G36390	52.6178	104.371	0.988098073	0.00005	0.000282578
AT2G36400	30.307	11.8213	-1.358262352	0.00055	0.00251246
AT2G36410	83.0994	64.6978	-0.361121405	0.00015	0.000779873
AT2G36430	17.2537	30.6783	0.830312764	0.00005	0.000282578
AT2G36460	98.6111	133.042	0.432059806	0.00005	0.000282578
AT2G36470	6.46828	8.22569	0.346754571	0.01125	0.0341282
AT2G36480	10.684	8.81702	-0.277088844	0.01385	0.0406792
AT2G36500	1.71389	0.558412	-1.617872668	0.00005	0.000282578
AT2G36580	38.3688	62.1878	0.696697935	0.00005	0.000282578
AT2G36620	137.451	84.1357	-0.708127411	0.00005	0.000282578
AT2G36690	12.3694	7.98476	-0.631454572	0.00005	0.000282578
AT2G36730	2.28928	4.23523	0.887546391	0.00005	0.000282578
AT2G36750	4.63923	10.3183	1.15324802	0.00005	0.000282578
AT2G36770	1.49972	2.4874	0.729945354	0.0031	0.0114009
AT2G36780	0.786944	5.08637	2.692303532	0.00005	0.000282578
AT2G36790	6.67336	14.5002	1.119587561	0.00005	0.000282578
AT2G36800	11.3155	41.9316	1.889737546	0.00005	0.000282578
AT2G36835	51.2521	75.3185	0.55539315	0.00005	0.000282578
AT2G36870	24.6641	14.3774	-0.778609841	0.00005	0.000282578
AT2G36895	51.4069	29.4607	-0.803170306	0.00005	0.000282578
AT2G36930	66.9696	42.2653	-0.664032661	0.00005	0.000282578
AT2G36950	20.4071	82.5138	2.015564243	0.00005	0.000282578
AT2G36970	12.0861	39.5018	1.708569611	0.00005	0.000282578
AT2G36990	59.8276	41.1949	-0.53834545	0.00005	0.000282578
AT2G37025	5.15879	0.795416	-2.697251232	0.00005	0.000282578
AT2G37030	8.02287	0.250038	-5.003899147	0.0039	0.0138733
AT2G37040	58.7786	110.455	0.910095825	0.00005	0.000282578
AT2G37080	26.2044	17.1468	-0.611869716	0.00005	0.000282578
AT2G37130	341.118	228.915	-0.575458884	0.00005	0.000282578
AT2G37170	346.778	285.658	-0.279723441	0.0056	0.0188774
AT2G37180	30.2045	23.1347	-0.384705114	0.001	0.00425239

AT2G37190	173.431	136.272	-0.347872637	0.0004	0.00188925
AT2G37200	26.72	50.5943	0.921054851	0.00005	0.000282578
AT2G37210	0.870041	1.60671	0.884954263	0.0131	0.0388035
AT2G37220	730.748	405.791	-0.848637107	0.00005	0.000282578
AT2G37250	27.1251	46.7825	0.786340503	0.00005	0.000282578
AT2G37260	2.52847	1.43897	-0.813228146	0.00075	0.0032996
AT2G37310	1.64941	3.5304	1.097881593	0.00005	0.000282578
AT2G37340	59.8156	117.207	0.970465039	0.00005	0.000282578
AT2G37380	5.84901	4.08416	-0.51815307	0.005	0.0171523
AT2G37420	4.30114	2.26017	-0.928287801	0.00005	0.000282578
AT2G37450	21.6117	16.9508	-0.350459197	0.00295	0.0109262
AT2G37460	13.1952	4.77353	-1.466884786	0.00005	0.000282578
AT2G37470	30.7898	17.8229	-0.788720396	0.00005	0.000282578
AT2G37540	21.683	32.1742	0.569339899	0.00005	0.000282578
AT2G37550	45.1835	37.0079	-0.287962756	0.00545	0.0184447
AT2G37580	7.28039	9.77104	0.424496391	0.0077	0.0247988
AT2G37585	11.8346	8.37497	-0.498855017	0.00035	0.00167549
AT2G37600	49.0449	75.2018	0.61666407	0.00005	0.000282578
AT2G37630	23.5863	41.7608	0.82420023	0.00005	0.000282578
AT2G37640	86.8709	47.4619	-0.872103128	0.00005	0.000282578
AT2G37660	303.559	182.876	-0.731111194	0.00005	0.000282578
AT2G37678	19.1822	13.5859	-0.497658052	0.00035	0.00167549
AT2G37680	14.2334	9.54666	-0.576212342	0.0144	0.0420158
AT2G37690	6.79769	10.0415	0.562858319	0.0004	0.00188925
AT2G37710	26.8614	41.8319	0.639069027	0.00005	0.000282578
AT2G37760	15.4439	37.4444	1.277712855	0.00005	0.000282578
AT2G37790	8.82678	11.6782	0.403858779	0.005	0.0171523
AT2G37840	16.1461	12.717	-0.34442736	0.0021	0.00813349
AT2G37860	25.9415	38.3306	0.563234679	0.00005	0.000282578
AT2G37870	1.2761	4.57707	1.842682968	0.0003	0.00145851
AT2G37890	4.39607	11.9009	1.436784417	0.00005	0.000282578
AT2G37900	0.30199	0.60932	1.012699318	0.0101	0.0311631
AT2G37920	22.4134	14.1587	-0.662672707	0.00005	0.000282578
AT2G37940	37.8034	31.0312	-0.284796507	0.0063	0.0208862
AT2G37950	7.58296	3.20408	-1.242850943	0.00005	0.000282578
AT2G37960	1.12435	0.322876	-1.800039092	0.0002	0.00101248
AT2G37970	33.781	64.2423	0.927311509	0.00005	0.000282578
AT2G37980	4.24872	5.45882	0.361560856	0.0105	0.0322084
AT2G38020	23.7374	18.9169	-0.327486236	0.00525	0.0178784
AT2G38025	28.381	19.9214	-0.510606385	0.00005	0.000282578
AT2G38040	145.964	68.8222	-1.084666676	0.00005	0.000282578
AT2G38080	13.3633	6.76951	-0.981153003	0.00005	0.000282578
AT2G38090	4.9521	6.78959	0.45528401	0.00255	0.00962703
AT2G38110	12.7338	8.26626	-0.623356363	0.00005	0.000282578
AT2G38120	65.0817	49.9903	-0.380603751	0.0001	0.000537698
AT2G38140	442.913	196.311	-1.173882328	0.00005	0.000282578
AT2G38160	3.02157	1.81471	-0.735559348	0.00265	0.00995735

AT2G38170	96.809	170.338	0.815187235	0.00005	0.000282578
AT2G38210	7.26636	12.9872	0.837785675	0.00005	0.000282578
AT2G38230	125.07	171.952	0.459270118	0.00005	0.000282578
AT2G38250	0.969665	2.49266	1.362127796	0.00005	0.000282578
AT2G38270	62.6906	49.2084	-0.349344529	0.0013	0.00534838
AT2G38280	23.9879	31.883	0.410480521	0.00005	0.000282578
AT2G38290	16.0622	20.5161	0.353087	0.00225	0.00863481
AT2G38330	26.4	16.8625	-0.646719486	0.00005	0.000282578
AT2G38380	46.2275	62.5116	0.435372586	0.00005	0.000282578
AT2G38390	70.2343	24.5966	-1.51371686	0.00005	0.000282578
AT2G38400	24.3821	13.9343	-0.807181859	0.00005	0.000282578
AT2G38450	25.432	18.702	-0.443452361	0.0016	0.00641937
AT2G38460	10.2787	4.27388	-1.266039505	0.00005	0.000282578
AT2G38470	17.8352	32.1831	0.851575905	0.00005	0.000282578
AT2G38530	137.31	331.495	1.271550412	0.00005	0.000282578
AT2G38540	1503.48	911.343	-0.722239632	0.00005	0.000282578
AT2G38620	6.35302	3.08374	-1.042761429	0.0001	0.000537698
AT2G38630	8.39254	5.49413	-0.611216461	0.00005	0.000282578
AT2G38660	10.64	16.7377	0.653603144	0.00005	0.000282578
AT2G38670	47.5983	33.8107	-0.493430162	0.00005	0.000282578
AT2G38695	10.1097	6.39036	-0.661771074	0.0099	0.0306393
AT2G38700	39.1923	31.0513	-0.33591657	0.001	0.00425239
AT2G38740	30.2496	47.6536	0.655669142	0.00005	0.000282578
AT2G38750	38.0196	31.2226	-0.284152674	0.00795	0.0254668
AT2G38790	11.1155	18.552	0.73900188	0.00835	0.0265257
AT2G38860	21.1481	52.3549	1.307796514	0.00005	0.000282578
AT2G38870	33.2284	96.8874	1.543892232	0.00005	0.000282578
AT2G38940	43.1037	139.033	1.689543733	0.00005	0.000282578
AT2G38995	1.86026	0.733649	-1.34234237	0.0003	0.00145851
AT2G39000	46.1956	37.3523	-0.306558365	0.0122	0.0365526
AT2G39010	298.093	224.012	-0.41218648	0.0001	0.000537698
AT2G39030	0.891703	0.18645	-2.257774474	0.0095	0.029588
AT2G39040	6.42521	3.70967	-0.792452753	0.00005	0.000282578
AT2G39050	19.1243	24.6861	0.36829199	0.00155	0.00624225
AT2G39090	9.93464	6.24602	-0.669530501	0.00005	0.000282578
AT2G39140	30.8312	24.1417	-0.352863772	0.0022	0.00846997
AT2G39170	19.0701	14.5497	-0.390323002	0.00405	0.0143254
AT2G39180	4.92129	2.73936	-0.84519766	0.00005	0.000282578
AT2G39190	47.2538	30.0321	-0.653924992	0.00005	0.000282578
AT2G39210	18.7714	45.2767	1.270232558	0.00005	0.000282578
AT2G39250	13.359	7.00188	-0.931997776	0.00005	0.000282578
AT2G39270	19.4643	27.1653	0.480934518	0.01425	0.0416386
AT2G39290	22.9307	18.313	-0.324412246	0.00685	0.0224336
AT2G39300	3.0781	2.07219	-0.570883812	0.00045	0.00210009
AT2G39310	156.836	393.989	1.328898598	0.00005	0.000282578
AT2G39330	0.32453	2.66384	3.037083677	0.00005	0.000282578
AT2G39380	6.88258	10.9507	0.670001715	0.00005	0.000282578

AT2G39400	47.0013	29.9399	-0.650631258	0.00005	0.000282578
AT2G39410	3.3981	1.55632	-1.126589581	0.00015	0.000779873
AT2G39420	14.1126	21.8272	0.629143269	0.00005	0.000282578
AT2G39435	3.96265	6.78691	0.776289335	0.0048	0.0165649
AT2G39440	7.68231	5.53903	-0.471906829	0.00995	0.030766
AT2G39450	40.5311	28.6111	-0.502454365	0.00005	0.000282578
AT2G39460	245.554	187.297	-0.390712532	0.00015	0.000779873
AT2G39470	120.214	87.0434	-0.465798105	0.00095	0.00406118
AT2G39510	4.04373	2.71661	-0.573879206	0.0047	0.0162675
AT2G39530	5.76215	3.97752	-0.534738032	0.01415	0.0413977
AT2G39570	111.188	221.437	0.99389521	0.00005	0.000282578
AT2G39580	18.4601	14.6811	-0.3304503	0.0013	0.00534838
AT2G39670	49.7258	34.3764	-0.532576112	0.00005	0.000282578
AT2G39700	31.8101	61.0076	0.93950407	0.00005	0.000282578
AT2G39710	8.51471	12.7212	0.579205468	0.00005	0.000282578
AT2G39720	29.0168	21.7183	-0.417977246	0.0001	0.000537698
AT2G39730	3722.81	2397.87	-0.634638542	0.00005	0.000282578
AT2G39770	125.413	162.655	0.375128269	0.0002	0.00101248
AT2G39780	77.8282	97.0634	0.318634406	0.00125	0.00516712
AT2G39850	5.7036	14.103	1.306057374	0.00005	0.000282578
AT2G39870	27.8323	22.1526	-0.3292841	0.0025	0.00945953
AT2G39880	2.65103	1.25331	-1.080809694	0.0002	0.00101248
AT2G39900	51.6872	31.3572	-0.721010309	0.00005	0.000282578
AT2G39920	20.3261	4.4216	-2.200693007	0.00005	0.000282578
AT2G39930	35.1623	24.3611	-0.529450164	0.0002	0.00101248
AT2G39980	8.09294	6.36874	-0.345655924	0.0067	0.0220088
AT2G40000	41.986	84.9166	1.016138259	0.00005	0.000282578
AT2G40010	8.91161	5.38469	-0.726822807	0.00005	0.000282578
AT2G40080	77.2147	250.295	1.696682035	0.00005	0.000282578
AT2G40100	5.32983	25.5992	2.263937303	0.00005	0.000282578
AT2G40130	1.96493	2.75369	0.486888238	0.00405	0.0143254
AT2G40140	17.0106	33.182	0.963966817	0.00005	0.000282578
AT2G40205	75.9055	37.8636	-1.003392839	0.00025	0.00123846
AT2G40230	9.28211	4.50788	-1.042003683	0.00005	0.000282578
AT2G40260	8.50179	5.85345	-0.53847943	0.00005	0.000282578
AT2G40270	19.1306	25.0817	0.390753013	0.00045	0.00210009
AT2G40280	14.2868	10.2291	-0.482003597	0.00005	0.000282578
AT2G40320	3.29395	6.46312	0.972412122	0.00005	0.000282578
AT2G40340	4.63278	6.21079	0.422898614	0.00945	0.0294592
AT2G40350	0.137186	3.8463	4.809266128	0.01505	0.043598
AT2G40360	25.0241	37.4111	0.580148203	0.00005	0.000282578
AT2G40370	3.69849	5.30599	0.520685582	0.00085	0.00368886
AT2G40400	37.9013	19.412	-0.965298568	0.00005	0.000282578
AT2G40435	0.850373	1.90366	1.162608136	0.0062	0.0206032
AT2G40460	7.83573	10.1252	0.369810814	0.00185	0.00728767
AT2G40475	22.1413	16.803	-0.398021097	0.0014	0.00571151
AT2G40480	7.06768	10.5334	0.575662562	0.0001	0.000537698



AT2G40490	154.572	60.8289	-1.345450185	0.00005	0.000282578
AT2G40520	4.12059	5.61473	0.446365726	0.0042	0.0147771
AT2G40530	4.29552	7.29113	0.763309636	0.0015	0.00606399
AT2G40610	89.6594	33.0019	-1.441905759	0.00005	0.000282578
AT2G40620	14.6847	10.1394	-0.534341509	0.00005	0.000282578
AT2G40700	5.8112	8.04881	0.469939392	0.00045	0.00210009
AT2G40711	0.924289	1.9532	1.079423764	0.0161	0.0461351
AT2G40740	0.203657	1.00049	2.29649344	0.008	0.0256029
AT2G40750	1.27621	9.8312	2.94550178	0.00005	0.000282578
AT2G40760	15.1303	9.64517	-0.649562022	0.00005	0.000282578
AT2G40800	18.3309	13.4728	-0.444227909	0.0001	0.000537698
AT2G40820	18.6553	14.87	-0.327180913	0.0041	0.0144768
AT2G40830	24.502	30.2603	0.304526775	0.0054	0.0183008
AT2G40840	99.2161	67.1801	-0.562540306	0.00005	0.000282578
AT2G40900	13.107	17.8646	0.4467661	0.0004	0.00188925
AT2G40950	10.9275	16.4863	0.593304275	0.00005	0.000282578
AT2G40960	11.506	6.32084	-0.864198174	0.00005	0.000282578
AT2G41000	6.69471	9.13185	0.447885599	0.00565	0.0190219
AT2G41040	12.9533	9.4255	-0.458678631	0.0034	0.0123479
AT2G41070	2.95854	8.6115	1.541379156	0.002	0.00779418
AT2G41090	33.4557	135.261	2.015421989	0.00005	0.000282578
AT2G41110	90.3627	61.864	-0.54662726	0.00005	0.000282578
AT2G41130	5.06196	6.67467	0.399000404	0.01265	0.03769
AT2G41140	20.1431	34.3829	0.771405503	0.00005	0.000282578
AT2G41160	16.7301	26.7435	0.676742219	0.00005	0.000282578
AT2G41170	8.30602	6.41597	-0.37248995	0.0076	0.024527
AT2G41220	24.1244	29.9603	0.312559009	0.0019	0.00745613
AT2G41260	1.49363	4.9182	1.719307594	0.00005	0.000282578
AT2G41340	3.38866	1.32882	-1.350569199	0.00005	0.000282578
AT2G41380	16.155	61.2194	1.922008155	0.00005	0.000282578
AT2G41410	54.1499	111.66	1.044081883	0.00005	0.000282578
AT2G41430	1127.93	741.129	-0.605880953	0.00005	0.000282578
AT2G41440	5.74575	8.72889	0.603302985	0.0011	0.00462106
AT2G41475	51.6752	66.3536	0.360702673	0.00115	0.00480526
AT2G41520	9.22538	7.13127	-0.371449311	0.0012	0.00498818
AT2G41540	29.4108	19.0356	-0.627645983	0.00005	0.000282578
AT2G41560	80.1234	34.1663	-1.229649621	0.00005	0.000282578
AT2G41640	2.95889	11.0185	1.896799868	0.00005	0.000282578
AT2G41650	15.63	19.63	0.328742394	0.01275	0.0379464
AT2G41660	12.7664	18.8338	0.560972358	0.00005	0.000282578
AT2G41680	120.3	69.0735	-0.80043241	0.00005	0.000282578
AT2G41710	21.9341	28.9129	0.398537809	0.00535	0.0181609
AT2G41720	12.9109	18.2365	0.498239298	0.00005	0.000282578
AT2G41740	57.1114	45.5868	-0.325162609	0.00125	0.00516712
AT2G41780	7.31059	12.6992	0.796677867	0.0002	0.00101248
AT2G41830	7.97617	5.88822	-0.437864583	0.00035	0.00167549
AT2G41840	266.522	204.693	-0.380792858	0.00005	0.000282578

AT2G41850	0.395558	1.71577	2.116895016	0.00005	0.000282578
AT2G41870	15.5728	11.6499	-0.418710794	0.0013	0.00534838
AT2G41905	1.33496	5.33773	1.999429817	0.00005	0.000282578
AT2G41940	24.8652	18.3735	-0.436501561	0.00045	0.00210009
AT2G41980	14.7655	10.7275	-0.46091631	0.00015	0.000779873
AT2G41990	12.1426	1.76066	-2.785889124	0.00005	0.000282578
AT2G42040	20.8746	16.4366	-0.344836652	0.00355	0.0128096
AT2G42070	27.3924	17.5476	-0.642501949	0.00005	0.000282578
AT2G42080	11.7204	9.1739	-0.353414721	0.01605	0.0460241
AT2G42110	7.2864	2.44186	-1.577225708	0.00005	0.000282578
AT2G42130	52.1361	41.7183	-0.321602297	0.0127	0.0378086
AT2G42170	13.1052	4.73342	-1.469184527	0.00005	0.000282578
AT2G42190	28.5142	16.9238	-0.752627015	0.00005	0.000282578
AT2G42210	158.167	119.926	-0.399304158	0.0002	0.00101248
AT2G42220	537.692	104.411	-2.364506295	0.00005	0.000282578
AT2G42260	1.63796	0.938591	-0.803331594	0.01165	0.0351616
AT2G42280	12.5086	20.1658	0.688990312	0.0039	0.0138733
AT2G42300	28.7488	17.13	-0.746976587	0.00005	0.000282578
AT2G42310	86.263	72.1882	-0.256978859	0.01345	0.0396954
AT2G42320	33.2928	17.3279	-0.942113387	0.00005	0.000282578
AT2G42360	1.64108	5.63475	1.779706033	0.00005	0.000282578
AT2G42380	17.9737	12.1055	-0.570224758	0.00005	0.000282578
AT2G42390	24.871	30.7058	0.304046675	0.01035	0.0318215
AT2G42395	0.435986	1.604	1.879320427	0.00435	0.0152293
AT2G42450	2.86492	3.80019	0.407576698	0.0164	0.0468459
AT2G42500	64.7696	51.4151	-0.33312471	0.0014	0.00571151
AT2G42540	16.6537	4.52727	-1.879129486	0.00005	0.000282578
AT2G42580	27.1019	17.3044	-0.647255077	0.00375	0.0134211
AT2G42590	237.419	152.375	-0.639809174	0.00005	0.000282578
AT2G42600	204.662	163.34	-0.325365126	0.002	0.00779418
AT2G42610	6.40565	12.3501	0.947105846	0.00005	0.000282578
AT2G42690	57.9117	133.409	1.203929244	0.00005	0.000282578
AT2G42700	9.12453	7.34913	-0.312176776	0.00975	0.0302521
AT2G42710	16.4421	20.4326	0.313478222	0.0075	0.0242445
AT2G42720	0.163355	0.524117	1.681878291	0.00765	0.024665
AT2G42750	99.0323	39.126	-1.33977152	0.00005	0.000282578
AT2G42770	41.3956	26.0488	-0.668260517	0.00005	0.000282578
AT2G42790	45.1459	36.0277	-0.32548842	0.0016	0.00641937
AT2G42840	244.158	87.108	-1.486937922	0.00005	0.000282578
AT2G42850	4.45682	2.13442	-1.062170605	0.00005	0.000282578
AT2G42870	10.823	2.80497	-1.948043206	0.00005	0.000282578
AT2G42880	60.1977	39.818	-0.596287608	0.00005	0.000282578
AT2G42960	4.76686	2.89434	-0.719804849	0.00005	0.000282578
AT2G43000	1.1065	7.0432	2.670227599	0.00005	0.000282578
AT2G43010	101.808	37.9362	-1.424203853	0.00005	0.000282578
AT2G43030	447.771	212.701	-1.073934279	0.00005	0.000282578
AT2G43060	17.6265	21.8992	0.313132133	0.0136	0.0400639

AT2G43080	20.3181	25.3827	0.321080041	0.00615	0.0204586
AT2G43090	136.922	100.654	-0.443949765	0.00005	0.000282578
AT2G43200	9.72025	3.77279	-1.36536162	0.00005	0.000282578
AT2G43250	2.71398	4.22783	0.639507278	0.00015	0.000779873
AT2G43290	37.9204	49.2194	0.376252889	0.0004	0.00188925
AT2G43330	14.9261	8.96181	-0.735975212	0.00005	0.000282578
AT2G43340	14.1034	21.5546	0.611952785	0.0154	0.0444419
AT2G43360	45.1531	21.0987	-1.09767093	0.00005	0.000282578
AT2G43420	13.1992	16.1247	0.288821829	0.01115	0.0338768
AT2G43445	4.17871	1.33836	-1.642591407	0.00005	0.000282578
AT2G43510	11.7367	113.771	3.277034135	0.00005	0.000282578
AT2G43530	171.809	477.691	1.475272084	0.00005	0.000282578
AT2G43535	279.135	687.919	1.301275671	0.00005	0.000282578
AT2G43560	211.473	74.7048	-1.501200629	0.00005	0.000282578
AT2G43570	3.65509	42.2068	3.529496617	0.00005	0.000282578
AT2G43590	127.873	32.2526	-1.987224304	0.00005	0.000282578
AT2G43620	18.1484	318.52	4.133469695	0.00005	0.000282578
AT2G43630	30.4569	41.654	0.451685936	0.00025	0.00123846
AT2G43660	0	0.502495	inf	0.0002	0.00101248
AT2G43670	4.4581	8.85152	0.989496241	0.0006	0.00271108
AT2G43690	0.841532	1.34878	0.680565011	0.00745	0.0241032
AT2G43700	1.85266	2.66735	0.525809	0.00395	0.0140308
AT2G43750	162.39	116.109	-0.483982989	0.0001	0.000537698
AT2G43780	14.2143	20.5602	0.532511245	0.0004	0.00188925
AT2G43790	50.7215	42.3835	-0.259094682	0.01045	0.0320751
AT2G43910	481.978	396.077	-0.283186369	0.0084	0.0266576
AT2G43945	69.5601	39.0504	-0.83292268	0.00005	0.000282578
AT2G43970	252.964	432.692	0.774408362	0.00005	0.000282578
AT2G44040	21.1183	8.69202	-1.280730305	0.00005	0.000282578
AT2G44050	69.8214	46.3343	-0.591588709	0.00005	0.000282578
AT2G44060	188.745	131.51	-0.521265921	0.00005	0.000282578
AT2G44100	116.636	93.1165	-0.324904411	0.00075	0.0032996
AT2G44120	84.8775	62.9433	-0.431329345	0.00005	0.000282578
AT2G44140	28.7108	22.7483	-0.335834795	0.0051	0.0174432
AT2G44150	14.3014	9.43669	-0.599803567	0.00005	0.000282578
AT2G44180	16.611	20.8777	0.329823858	0.00375	0.0134211
AT2G44190	2.27907	1.06333	-1.099855836	0.00005	0.000282578
AT2G44210	37.5786	54.1336	0.526613014	0.00005	0.000282578
AT2G44230	14.2593	6.81099	-1.065966741	0.00005	0.000282578
AT2G44270	12.3074	16.5171	0.424434389	0.00065	0.00291062
AT2G44290	5.59556	39.4861	2.818990454	0.00005	0.000282578
AT2G44300	7.01994	10.3547	0.560755151	0.0012	0.00498818
AT2G44310	70.3527	86.1177	0.291703997	0.00645	0.0213006
AT2G44380	15.7453	10.9159	-0.528490163	0.0001	0.000537698
AT2G44430	11.3156	17.6421	0.640709216	0.00005	0.000282578
AT2G44460	0.570004	14.8707	4.705356707	0.00005	0.000282578
AT2G44490	161.34	97.8718	-0.721139023	0.00005	0.000282578

AT2G44500	17.9756	27.1586	0.595369185	0.00005	0.000282578
AT2G44510	3.06388	4.61588	0.591245925	0.0028	0.0104493
AT2G44580	3.14507	1.80042	-0.804758631	0.00045	0.00210009
AT2G44600	3.69848	5.4371	0.555904888	0.0019	0.00745613
AT2G44610	79.8249	66.7824	-0.257370899	0.01115	0.0338768
AT2G44620	98.0441	68.7222	-0.512654594	0.00005	0.000282578
AT2G44650	68.187	37.0974	-0.878178635	0.00005	0.000282578
AT2G44660	8.95109	14.7469	0.720276433	0.01655	0.0471864
AT2G44670	89.7345	151.197	0.752694848	0.00005	0.000282578
AT2G44690	2.79667	1.65543	-0.756504022	0.0108	0.0329645
AT2G44700	0.91313	1.78502	0.967048066	0.00505	0.0172987
AT2G44710	16.5424	24.8617	0.58775639	0.00005	0.000282578
AT2G44730	22.9147	18.3716	-0.31879612	0.0099	0.0306393
AT2G44740	9.64345	3.65102	-1.4012498	0.00005	0.000282578
AT2G44750	8.86388	14.6136	0.721301369	0.0062	0.0206032
AT2G44790	72.736	51.9097	-0.486665439	0.00005	0.000282578
AT2G44840	0.158165	0.913481	2.529944338	0.0138	0.0405566
AT2G44880	0.722173	1.25918	0.802068143	0.00415	0.0146251
AT2G44900	8.58582	11.1705	0.379665931	0.00025	0.00123846
AT2G44920	66.8125	37.2919	-0.841255739	0.00005	0.000282578
AT2G44930	0.770985	0.361201	-1.093900905	0.0089	0.0279995
AT2G45030	12.902	17.3687	0.428895054	0.0002	0.00101248
AT2G45050	10.4688	6.80555	-0.621312416	0.00005	0.000282578
AT2G45060	17.2767	13.7726	-0.327026738	0.01105	0.0336205
AT2G45130	10.0101	113.952	3.508897954	0.00005	0.000282578
AT2G45135	1.57552	13.9698	3.148411393	0.00005	0.000282578
AT2G45160	25.2399	17.3117	-0.543958791	0.00005	0.000282578
AT2G45170	138.482	87.6348	-0.660122679	0.00005	0.000282578
AT2G45180	2155.97	1053.05	-1.033763165	0.00005	0.000282578
AT2G45190	42.4205	14.6596	-1.532915887	0.00005	0.000282578
AT2G45210	9.94653	14.3871	0.532510606	0.00005	0.000282578
AT2G45220	17.7632	40.5357	1.190301553	0.00005	0.000282578
AT2G45240	18.4507	23.5101	0.349605124	0.00145	0.00588787
AT2G45260	23.63	17.3847	-0.442801458	0.0012	0.00498818
AT2G45270	11.7533	7.06013	-0.735299229	0.0001	0.000537698
AT2G45290	10.8166	19.5389	0.853102163	0.00005	0.000282578
AT2G45350	0.879145	1.86908	1.088155282	0.00025	0.00123846
AT2G45380	34.3809	43.3653	0.334933779	0.00365	0.0131214
AT2G45400	25.4825	18.9779	-0.425186463	0.0017	0.00676327
AT2G45440	17.4924	28.525	0.705498642	0.00005	0.000282578
AT2G45460	3.67695	5.09656	0.471014248	0.00065	0.00291062
AT2G45470	223.089	123.058	-0.858280929	0.00005	0.000282578
AT2G45490	3.45936	1.80909	-0.935240974	0.0031	0.0114009
AT2G45500	7.09038	9.07673	0.356309694	0.01385	0.0406792
AT2G45510	13.4534	29.1765	1.116836006	0.00005	0.000282578
AT2G45540	17.9919	15.1456	-0.248448815	0.0169	0.0480113
AT2G45560	63.4354	30.0276	-1.078998988	0.00005	0.000282578

AT2G45590	13.8974	11.596	-0.261187763	0.0163	0.0466222
AT2G45600	7.10348	5.44533	-0.383506493	0.01365	0.0401899
AT2G45640	42.7296	51.5272	0.270098387	0.01655	0.0471864
AT2G45660	24.8278	15.7927	-0.652698587	0.00005	0.000282578
AT2G45670	60.8917	46.2367	-0.397207158	0.00005	0.000282578
AT2G45680	12.0398	33.3265	1.468858384	0.00005	0.000282578
AT2G45720	8.80393	15.057	0.774214772	0.00005	0.000282578
AT2G45740	107.051	138.098	0.367394153	0.00015	0.000779873
AT2G45760	0.206278	1.90876	3.209973847	0.0036	0.0129656
AT2G45770	36.6132	17.5847	-1.058043149	0.00005	0.000282578
AT2G45790	64.6895	52.922	-0.289663978	0.00565	0.0190219
AT2G45810	47.6945	34.3986	-0.471473059	0.0052	0.0177382
AT2G45850	27.2216	15.0288	-0.857022047	0.00005	0.000282578
AT2G45880	6.08393	8.26517	0.44204094	0.0003	0.00145851
AT2G45900	1.77798	0.992681	-0.840837011	0.0002	0.00101248
AT2G45910	17.9122	33.0384	0.883201279	0.00005	0.000282578
AT2G45920	9.11726	14.2355	0.642820943	0.00005	0.000282578
AT2G45930	0.090273	0.68542	2.924621831	0.01135	0.0343831
AT2G45960	1137.15	684.96	-0.731330925	0.00005	0.000282578
AT2G45980	51.1156	37.8798	-0.432334942	0.0001	0.000537698
AT2G45990	60.7666	42.1306	-0.528410111	0.00005	0.000282578
AT2G46020	20.794	25.2712	0.281326866	0.01	0.0309035
AT2G46040	2.73337	1.95264	-0.485254772	0.0122	0.0365526
AT2G46060	10.6272	8.45729	-0.329494179	0.00475	0.0164173
AT2G46080	22.5426	30.0449	0.414466199	0.00045	0.00210009
AT2G46100	67.1008	54.0029	-0.313293084	0.0165	0.0470756
AT2G46130	0.268383	1.78607	2.734423428	0.0091	0.0285401
AT2G46150	3.54974	6.87975	0.954642782	0.0001	0.000537698
AT2G46160	8.45281	5.55118	-0.606636548	0.00095	0.00406118
AT2G46200	5.82907	3.30767	-0.81745042	0.00025	0.00123846
AT2G46220	128.123	161.71	0.335879412	0.00095	0.00406118
AT2G46250	11.0227	31.3251	1.506841461	0.00005	0.000282578
AT2G46330	163.09	79.2215	-1.041704402	0.00005	0.000282578
AT2G46400	1.00717	3.37585	1.744943586	0.00005	0.000282578
AT2G46420	9.81549	23.7888	1.277150303	0.00005	0.000282578
AT2G46430	4.8728	21.612	2.149009672	0.00005	0.000282578
AT2G46440	4.31122	14.7642	1.775935096	0.00005	0.000282578
AT2G46505	50.463	34.7322	-0.53895218	0.00005	0.000282578
AT2G46510	7.16353	11.9543	0.738787063	0.00005	0.000282578
AT2G46535	11.2352	26.3885	1.23188354	0.0001	0.000537698
AT2G46550	61.9488	36.2169	-0.774413273	0.00005	0.000282578
AT2G46600	70.7111	186.234	1.397107877	0.00005	0.000282578
AT2G46610	5.33714	12.0738	1.177741048	0.0002	0.00101248
AT2G46620	7.77637	11.4955	0.563900449	0.00005	0.000282578
AT2G46630	8.73297	6.24378	-0.484052679	0.0005	0.00230701
AT2G46650	31.6716	52.5909	0.731623434	0.00005	0.000282578
AT2G46660	2.2041	4.52498	1.037721735	0.00005	0.000282578

AT2G46680	15.9819	28.859	0.852582377	0.00005	0.000282578
AT2G46690	31.5534	45.0315	0.513139065	0.00005	0.000282578
AT2G46710	17.5123	11.1056	-0.657081235	0.00005	0.000282578
AT2G46750	7.58277	11.7529	0.632219913	0.00005	0.000282578
AT2G46760	0.931868	1.51448	0.700625011	0.0088	0.0277304
AT2G46780	9.74434	6.48013	-0.588541717	0.0002	0.00101248
AT2G46790	7.21304	1.26175	-2.515181338	0.00005	0.000282578
AT2G46810	9.8627	5.44369	-0.857397738	0.00005	0.000282578
AT2G46820	1298.53	295.41	-2.136088776	0.00005	0.000282578
AT2G46830	5.90321	1.0128	-2.543150355	0.00005	0.000282578
AT2G46870	13.8033	7.92198	-0.801080254	0.00005	0.000282578
AT2G46880	5.25118	22.9002	2.124646644	0.00005	0.000282578
AT2G46910	63.2441	17.4929	-1.854161417	0.00005	0.000282578
AT2G46915	19.7515	13.612	-0.537083164	0.00085	0.00368886
AT2G46940	2.5424	6.95578	1.452021273	0.00005	0.000282578
AT2G46970	0.276322	0.722435	1.386517359	0.00935	0.0291957
AT2G47000	23.7796	30.1181	0.340906313	0.0008	0.00349363
AT2G47010	7.12531	12.9013	0.856491758	0.00005	0.000282578
AT2G47020	6.08305	11.1057	0.868433562	0.00005	0.000282578
AT2G47130	13.7425	25.5078	0.892293995	0.00005	0.000282578
AT2G47160	14.4196	11.3621	-0.343801639	0.00205	0.00796423
AT2G47170	274.23	183.141	-0.582431601	0.00005	0.000282578
AT2G47180	14.9004	37.6941	1.338987666	0.0019	0.00745613
AT2G47190	0.189935	2.58302	3.765481128	0.00005	0.000282578
AT2G47210	30.0439	20.4544	-0.554660883	0.00005	0.000282578
AT2G47240	79.3648	43.3196	-0.873479361	0.00005	0.000282578
AT2G47300	1.27958	1.78425	0.479647424	0.01495	0.0433596
AT2G47310	5.38154	4.09296	-0.394874511	0.0096	0.0298585
AT2G47320	94.0989	69.5054	-0.43705279	0.0019	0.00745613
AT2G47400	926.25	738.666	-0.326479464	0.00145	0.00588787
AT2G47420	19.3052	28.0449	0.538748938	0.00005	0.000282578
AT2G47440	29.7318	21.1789	-0.489379149	0.00005	0.000282578
AT2G47450	148.57	88.7475	-0.743364444	0.00005	0.000282578
AT2G47460	1.73427	5.47891	1.659560383	0.00005	0.000282578
AT2G47470	85.819	131.296	0.613453969	0.00005	0.000282578
AT2G47485	8.68932	3.23516	-1.425406216	0.00005	0.000282578
AT2G47490	12.4897	8.09872	-0.62497301	0.00005	0.000282578
AT2G47510	68.1236	49.8194	-0.45144703	0.00005	0.000282578
AT2G47610	228.473	169.407	-0.431530195	0.00005	0.000282578
AT2G47680	2.24706	3.40588	0.599988958	0.0002	0.00101248
AT2G47700	53.6267	40.4758	-0.405891882	0.0008	0.00349363
AT2G47710	63.2673	89.3679	0.498296695	0.00005	0.000282578
AT2G47750	1.68426	0.381522	-2.142276709	0.00005	0.000282578
AT2G47770	0.190822	0.710367	1.896337053	0.0169	0.0480113
AT2G47800	5.45865	25.4645	2.221871288	0.00005	0.000282578
AT2G47830	12.0232	9.36943	-0.359787736	0.01595	0.0457738
AT2G47840	59.3055	42.5437	-0.479220398	0.00005	0.000282578

AT2G47860	5.42155	7.5789	0.4832831	0.0004	0.00188925
AT2G47880	2.17325	4.19686	0.949456194	0.006	0.0200297
AT2G47920	4.21401	1.98232	-1.088003866	0.00025	0.00123846
AT2G47940	144.571	64.2442	-1.170140068	0.00005	0.000282578
AT2G48010	4.08948	8.35522	1.030760408	0.00005	0.000282578
AT2G48020	24.3596	11.115	-1.131982495	0.00005	0.000282578
AT2G48030	16.8214	13.7126	-0.294795641	0.01145	0.0346535
AT2G48080	3.30033	1.73715	-0.925887953	0.00005	0.000282578
AT2G48090	6.81846	12.6348	0.88988499	0.00005	0.000282578
AT2G48100	19.2992	26.9547	0.481995807	0.00005	0.000282578
AT2G48110	7.72061	10.8438	0.490083666	0.00005	0.000282578
AT2G48120	17.1862	12.5865	-0.449373429	0.00085	0.00368886
AT2G48130	8.805	14.5426	0.723890316	0.00005	0.000282578
AT2G48140	19.8003	42.0154	1.08539593	0.00005	0.000282578
AT2G48150	0.540891	1.25899	1.218857026	0.01415	0.0413977
AT3G01060	57.1436	12.8759	-2.14991865	0.00005	0.000282578
AT3G01170	15.6964	21.148	0.43008752	0.00035	0.00167549
AT3G01190	54.4156	25.6637	-1.084291124	0.00005	0.000282578
AT3G01260	7.94445	0.642885	-3.627314749	0.00005	0.000282578
AT3G01300	9.83001	12.0421	0.292822214	0.01425	0.0416386
AT3G01310	74.3504	41.3518	-0.846390374	0.00005	0.000282578
AT3G01340	68.1144	51.474	-0.404115932	0.00005	0.000282578
AT3G01410	5.6677	3.49296	-0.698313275	0.00035	0.00167549
AT3G01420	72.7208	129.109	0.828149597	0.00005	0.000282578
AT3G01440	36.2149	64.6638	0.836374899	0.00005	0.000282578
AT3G01450	5.16832	2.20243	-1.230599232	0.0158	0.0454124
AT3G01470	125.881	186.697	0.568638201	0.00005	0.000282578
AT3G01480	208.942	87.4935	-1.255854775	0.00005	0.000282578
AT3G01490	46.2105	16.7413	-1.464809139	0.00005	0.000282578
AT3G01550	10.7787	1.87323	-2.524583234	0.00005	0.000282578
AT3G01600	0.209405	0.633559	1.597183086	0.0064	0.0211702
AT3G01660	8.09424	12.3813	0.61319527	0.00005	0.000282578
AT3G01670	17.6361	10.9304	-0.690185365	0.00005	0.000282578
AT3G01680	17.7922	12.3421	-0.527657021	0.00005	0.000282578
AT3G01690	134.511	90.3433	-0.57423464	0.00005	0.000282578
AT3G01710	4.91059	2.56219	-0.938518909	0.00005	0.000282578
AT3G01750	6.54982	4.38906	-0.577543267	0.00005	0.000282578
AT3G01770	29.1087	37.1591	0.35226515	0.0007	0.00310863
AT3G01800	8.48756	11.0771	0.384158458	0.0074	0.0239743
AT3G01810	17.3469	11.0994	-0.644196176	0.00005	0.000282578
AT3G01820	11.5676	23.4692	1.020679094	0.00005	0.000282578
AT3G01830	0.665703	1.93403	1.538659599	0.00765	0.024665
AT3G01860	25.5238	18.1819	-0.489340166	0.00005	0.000282578
AT3G01900	0.354114	1.17765	1.733625044	0.0001	0.000537698
AT3G01920	26.2319	14.4516	-0.860093078	0.013	0.0385744
AT3G01970	4.57372	19.5526	2.095920509	0.00005	0.000282578
AT3G01980	16.3651	22.5847	0.464723332	0.00005	0.000282578

AT3G01990	0.909469	3.39934	1.902158298	0.00005	0.000282578
AT3G02020	9.08736	14.0601	0.629673717	0.00005	0.000282578
AT3G02040	118.963	580.856	2.287667615	0.00005	0.000282578
AT3G02050	23.0738	32.4958	0.493997646	0.00005	0.000282578
AT3G02060	16.0099	19.9748	0.319216761	0.0029	0.0107667
AT3G02070	17.7549	13.0758	-0.441318019	0.00115	0.00480526
AT3G02080	203.857	155.079	-0.394554159	0.0001	0.000537698
AT3G02120	42.5826	17.5997	-1.274713203	0.00005	0.000282578
AT3G02140	4.21478	19.5807	2.215903108	0.00005	0.000282578
AT3G02170	22.9782	18.8251	-0.28760826	0.0064	0.0211702
AT3G02200	55.6464	42.2201	-0.398358361	0.00045	0.00210009
AT3G02230	98.1985	65.4296	-0.585757536	0.00005	0.000282578
AT3G02250	23.9545	14.0834	-0.766301031	0.00005	0.000282578
AT3G02260	10.4196	12.5633	0.269915572	0.0064	0.0211702
AT3G02370	5.31419	9.41127	0.82453961	0.0005	0.00230701
AT3G02480	6.05784	1.58649	-1.932965046	0.00035	0.00167549
AT3G02540	75.7994	58.6233	-0.370712247	0.0001	0.000537698
AT3G02550	2.9867	13.4149	2.167212062	0.00005	0.000282578
AT3G02555	6.8938	11.4433	0.731131805	0.00005	0.000282578
AT3G02560	155.781	91.1179	-0.773712882	0.00005	0.000282578
AT3G02570	53.8933	39.3146	-0.455040753	0.00515	0.0175936
AT3G02610	1.62479	0.869532	-0.901942239	0.0063	0.0208862
AT3G02620	1.12748	2.92637	1.376010348	0.00005	0.000282578
AT3G02630	66.9666	49.7545	-0.428614707	0.00005	0.000282578
AT3G02640	47.4307	23.7341	-0.998859817	0.00005	0.000282578
AT3G02690	40.1121	51.6213	0.363928976	0.0053	0.0180196
AT3G02730	424.183	241.493	-0.812705432	0.00005	0.000282578
AT3G02760	25.0408	19.9779	-0.325875713	0.0019	0.00745613
AT3G02790	16.7048	35.0966	1.071068566	0.00165	0.00658915
AT3G02830	30.3055	55.0257	0.860525948	0.00005	0.000282578
AT3G02850	1.92392	0.608952	-1.659648392	0.00005	0.000282578
AT3G02870	46.0053	62.8103	0.449201085	0.00005	0.000282578
AT3G02875	5.99328	11.5123	0.941758411	0.00005	0.000282578
AT3G02900	40.8852	31.6922	-0.367450886	0.0022	0.00846997
AT3G02910	38.0374	75.5764	0.990517163	0.00005	0.000282578
AT3G02950	17.6425	14.1755	-0.315655387	0.01165	0.0351616
AT3G02980	3.41541	8.74085	1.355714805	0.00005	0.000282578
AT3G03040	14.4161	11.4463	-0.332799599	0.0058	0.0194564
AT3G03070	143.176	115.337	-0.311934277	0.00225	0.00863481
AT3G03120	7.3962	9.60445	0.376918763	0.0112	0.0340068
AT3G03130	6.6715	2.6624	-1.325283831	0.00005	0.000282578
AT3G03160	30.8512	38.5915	0.322956515	0.00605	0.0201752
AT3G03180	8.79487	6.30442	-0.480298603	0.0105	0.0322084
AT3G03260	1.47692	3.53849	1.26054216	0.00005	0.000282578
AT3G03270	15.0423	30.1649	1.003845625	0.00005	0.000282578
AT3G03310	13.2	29.6301	1.166525566	0.00005	0.000282578
AT3G03330	21.2053	30.4932	0.524062663	0.0026	0.00979559



AT3G03450	1.35918	3.45454	1.345757088	0.00005	0.000282578
AT3G03470	16.5054	35.8204	1.117843346	0.00005	0.000282578
AT3G03530	8.51935	34.0454	1.998644617	0.00005	0.000282578
AT3G03580	1.39903	2.34169	0.743123201	0.00015	0.000779873
AT3G03600	20.3028	14.6609	-0.469705036	0.0006	0.00271108
AT3G03610	12.403	9.85788	-0.331339793	0.01635	0.0467368
AT3G03630	12.9273	7.69869	-0.7477361	0.00005	0.000282578
AT3G03710	30.6805	24.4791	-0.325771478	0.00155	0.00624225
AT3G03770	5.66646	11.6274	1.037008903	0.00005	0.000282578
AT3G03790	18.6441	45.7606	1.295386812	0.00005	0.000282578
AT3G03820	4.01091	1.33616	-1.585836819	0.00005	0.000282578
AT3G03830	3.50526	1.27965	-1.45377219	0.00565	0.0190219
AT3G03840	3.25279	1.56329	-1.057092253	0.0057	0.0191634
AT3G03850	6.87177	2.63961	-1.380356961	0.00005	0.000282578
AT3G03890	28.6236	23.0152	-0.314618152	0.01305	0.0386862
AT3G03950	16.7257	20.563	0.297984168	0.0071	0.0231313
AT3G03990	39.3374	54.8732	0.480200105	0.00005	0.000282578
AT3G04000	5.20653	12.9228	1.311524611	0.00005	0.000282578
AT3G04030	3.97028	5.93386	0.579730134	0.00135	0.00552942
AT3G04050	0.369541	1.91742	2.375360043	0.00005	0.000282578
AT3G04070	11.294	26.7389	1.24338358	0.00005	0.000282578
AT3G04090	89.8256	71.5003	-0.329177372	0.0015	0.00606399
AT3G04120	495.308	331.523	-0.57921696	0.00005	0.000282578
AT3G04130	2.24892	3.31886	0.561455432	0.0014	0.00571151
AT3G04140	5.06344	7.23837	0.515546999	0.00005	0.000282578
AT3G04210	20.3725	35.4503	0.799174806	0.00005	0.000282578
AT3G04230	11.9239	20.3354	0.770137188	0.00005	0.000282578
AT3G04240	32.5259	38.9851	0.261333858	0.0099	0.0306393
AT3G04260	28.4541	18.919	-0.588800714	0.00005	0.000282578
AT3G04290	83.9233	43.0786	-0.962100043	0.00005	0.000282578
AT3G04310	6.12296	8.73274	0.512205129	0.00185	0.00728767
AT3G04350	20.4052	44.6858	1.130879602	0.00005	0.000282578
AT3G04360	0.897001	4.49287	2.32445582	0.00005	0.000282578
AT3G04400	444.511	366.649	-0.277819516	0.00645	0.0213006
AT3G04420	1.19722	5.13281	2.100060573	0.00005	0.000282578
AT3G04470	26.1429	21.102	-0.309039446	0.00265	0.00995735
AT3G04510	0.267241	0.77928	1.544000428	0.009	0.0282735
AT3G04520	15.1394	21.7003	0.519406958	0.00005	0.000282578
AT3G04530	5.93565	17.9739	1.598425551	0.00005	0.000282578
AT3G04570	10.9785	8.75951	-0.325758877	0.01355	0.0399444
AT3G04610	25.7625	21.4804	-0.262251741	0.0136	0.0400639
AT3G04630	26.9508	15.2642	-0.820176119	0.00005	0.000282578
AT3G04710	7.93099	16.0792	1.01962276	0.00005	0.000282578
AT3G04720	99.0006	337.27	1.768394823	0.00005	0.000282578
AT3G04730	140.212	106.272	-0.399848294	0.0001	0.000537698
AT3G04780	33.8019	24.4741	-0.465848535	0.0005	0.00230701
AT3G04790	291.309	243.211	-0.260341793	0.0093	0.029061

AT3G04810	25.1726	17.964	-0.486745608	0.00005	0.000282578
AT3G04840	280.161	197.482	-0.504534977	0.00005	0.000282578
AT3G04850	2.81585	2.05286	-0.455935241	0.01125	0.0341282
AT3G04890	10.7155	7.99975	-0.42167235	0.00215	0.00830066
AT3G04910	80.6302	44.6526	-0.852576119	0.00005	0.000282578
AT3G04960	0.940021	1.52236	0.695544668	0.0124	0.037054
AT3G05020	95.1332	57.4879	-0.726690576	0.00005	0.000282578
AT3G05030	8.0512	13.3459	0.729120867	0.00005	0.000282578
AT3G05120	23.2063	30.1169	0.376056759	0.0005	0.00230701
AT3G05130	6.77431	3.18827	-1.087300198	0.00005	0.000282578
AT3G05140	2.806	1.16866	-1.263659743	0.00005	0.000282578
AT3G05160	42.2908	29.4509	-0.522032129	0.00005	0.000282578
AT3G05165	90.0461	193.848	1.106190153	0.00005	0.000282578
AT3G05180	11.7057	16.2052	0.469245616	0.0023	0.00880163
AT3G05200	18.9466	23.8289	0.330773377	0.00255	0.00962703
AT3G05210	13.2356	16.6483	0.330951271	0.00505	0.0172987
AT3G05280	26.9862	22.2866	-0.276045303	0.01525	0.0440816
AT3G05320	4.05136	5.79402	0.516158377	0.00395	0.0140308
AT3G05330	5.54322	3.19216	-0.796191301	0.00005	0.000282578
AT3G05360	3.24656	6.9929	1.106979002	0.00095	0.00406118
AT3G05400	3.69424	9.33594	1.337517694	0.00005	0.000282578
AT3G05410	26.403	20.1433	-0.390401809	0.0076	0.024527
AT3G05420	40.209	31.8676	-0.335428085	0.0006	0.00271108
AT3G05470	1.96554	1.26375	-0.637214632	0.00095	0.00406118
AT3G05480	1.36727	0.833622	-0.713832908	0.0106	0.0324543
AT3G05500	28.645	21.0394	-0.445189775	0.00005	0.000282578
AT3G05530	107.99	82.9762	-0.38012823	0.00005	0.000282578
AT3G05560	192.442	128.405	-0.583722317	0.00005	0.000282578
AT3G05570	17.6719	24.2035	0.453758527	0.0172	0.048727
AT3G05590	386.433	289.416	-0.417073619	0.00005	0.000282578
AT3G05600	10.2536	6.23889	-0.716769245	0.00005	0.000282578
AT3G05625	11.9573	15.4123	0.366190513	0.00535	0.0181609
AT3G05630	6.48008	35.7005	2.461860751	0.00005	0.000282578
AT3G05660	2.23612	0.741164	-1.593132898	0.00005	0.000282578
AT3G05690	5.35602	31.4968	2.555972009	0.00005	0.000282578
AT3G05700	9.54416	12.4497	0.383420844	0.0056	0.0188774
AT3G05727	433.031	177.13	-1.289661731	0.00005	0.000282578
AT3G05730	514.817	62.2632	-3.047608063	0.00005	0.000282578
AT3G05760	35.4411	28.96	-0.29136178	0.016	0.0458958
AT3G05800	34.71	12.4875	-1.474866687	0.00005	0.000282578
AT3G05840	87.0173	118.332	0.44346611	0.00005	0.000282578
AT3G05860	0.230335	0.962152	2.062531179	0.0064	0.0211702
AT3G05900	102.319	53.0033	-0.948919979	0.00005	0.000282578
AT3G05910	52.1895	27.735	-0.912051855	0.00005	0.000282578
AT3G05937	6.60343	25.2582	1.935464332	0.00005	0.000282578
AT3G05940	7.23292	9.00059	0.31544138	0.01775	0.0499963
AT3G05970	37.724	57.0735	0.59733838	0.00005	0.000282578

AT3G05990	14.4135	21.0623	0.547242282	0.00005	0.000282578
AT3G06030	6.99169	2.96046	-1.239819858	0.00005	0.000282578
AT3G06050	95.5888	71.2363	-0.424229005	0.00005	0.000282578
AT3G06060	26.3783	19.9784	-0.400910543	0.00007	0.00310863
AT3G06070	26.537	13.8649	-0.936568073	0.00005	0.000282578
AT3G06080	35.9857	20.456	-0.814899656	0.00005	0.000282578
AT3G06100	0.6983	0.139934	-2.319100434	0.0102	0.0314297
AT3G06145	15.508	10.5335	-0.558027755	0.00025	0.00123846
AT3G06210	5.94359	8.84756	0.573945041	0.00005	0.000282578
AT3G06290	11.8757	9.7291	-0.287634296	0.0076	0.024527
AT3G06300	29.3774	35.0565	0.254975248	0.01745	0.0493019
AT3G06320	13.4025	21.7603	0.699196311	0.00115	0.00480526
AT3G06330	17.0208	12.2773	-0.471305526	0.00005	0.000282578
AT3G06360	1.01422	2.29372	1.17731866	0.0063	0.0208862
AT3G06390	30.0741	21.752	-0.467373507	0.00005	0.000282578
AT3G06400	38.7458	46.5905	0.265995881	0.0082	0.026125
AT3G06470	19.5831	12.2112	-0.68140418	0.00005	0.000282578
AT3G06483	64.5472	35.9979	-0.842441767	0.00005	0.000282578
AT3G06500	25.4295	13.9607	-0.865131815	0.00005	0.000282578
AT3G06510	39.4058	60.698	0.62324099	0.00005	0.000282578
AT3G06540	12.4388	15.2228	0.291386433	0.0117	0.0352839
AT3G06570	10.7678	14.3977	0.419114844	0.00205	0.00796423
AT3G06580	41.0871	29.1001	-0.497661395	0.00005	0.000282578
AT3G06620	17.4139	11.5916	-0.587159627	0.00005	0.000282578
AT3G06630	1.43265	0.915466	-0.646107988	0.00275	0.0102843
AT3G06650	87.1479	58.0797	-0.585431899	0.00005	0.000282578
AT3G06660	6.29695	8.22655	0.385634317	0.0071	0.0231313
AT3G06700	228.249	182.092	-0.325940999	0.00995	0.030766
AT3G06710	0.385875	1.24649	1.691665826	0.0003	0.00145851
AT3G06720	43.6866	53.1583	0.283104139	0.01165	0.0351616
AT3G06740	13.5382	9.25364	-0.548943056	0.00007	0.00310863
AT3G06760	15.8354	12.4846	-0.343003711	0.01325	0.0391853
AT3G06770	15.9744	8.51912	-0.906985427	0.00005	0.000282578
AT3G06778	3.63519	1.77367	-1.035293157	0.00007	0.00310863
AT3G06840	9.25284	3.80806	-1.280840034	0.00215	0.00830066
AT3G06850	25.5135	18.4809	-0.465225809	0.0001	0.000537698
AT3G06860	42.226	58.7189	0.475693352	0.00005	0.000282578
AT3G06870	11.01	7.8011	-0.497064997	0.0107	0.0327122
AT3G06880	13.6791	10.0957	-0.438232367	0.00005	0.000282578
AT3G06920	2.79856	4.4322	0.663338305	0.00005	0.000282578
AT3G06930	17.1318	13.5771	-0.33550138	0.0031	0.0114009
AT3G06950	13.1586	19.2511	0.54893488	0.0019	0.00745613
AT3G06980	42.7525	27.8226	-0.619751541	0.00005	0.000282578
AT3G07010	36.9665	20.8924	-0.823240225	0.00005	0.000282578
AT3G07020	20.0375	15.8673	-0.336645862	0.00185	0.00728767
AT3G07090	31.9996	53.2549	0.734860403	0.00005	0.000282578
AT3G07140	17.0731	22.4456	0.394707626	0.0005	0.00230701

AT3G07170	34.5371	25.8652	-0.417134601	0.01745	0.0493019
AT3G07195	8.64562	4.82838	-0.840430204	0.00005	0.000282578
AT3G07200	12.5726	9.39102	-0.420929259	0.0095	0.029588
AT3G07210	5.70007	3.82664	-0.574901454	0.00005	0.000282578
AT3G07270	24.3014	29.5843	0.28379233	0.0159	0.0456527
AT3G07310	56.0537	41.7876	-0.423734703	0.0001	0.000537698
AT3G07320	32.0842	15.0198	-1.094997409	0.00005	0.000282578
AT3G07340	9.19948	6.43952	-0.514599161	0.00005	0.000282578
AT3G07350	25.4321	38.5331	0.599447662	0.00005	0.000282578
AT3G07430	57.9564	42.2491	-0.456047375	0.00005	0.000282578
AT3G07460	127.502	92.3679	-0.465056404	0.00005	0.000282578
AT3G07470	101.698	63.9187	-0.669981336	0.00005	0.000282578
AT3G07480	112.559	69.6923	-0.691610244	0.00005	0.000282578
AT3G07490	2.9067	1.57383	-0.885102465	0.0129	0.0383166
AT3G07510	25.8121	18.1707	-0.506433521	0.00315	0.0115529
AT3G07520	2.27701	4.07688	0.840324865	0.00005	0.000282578
AT3G07540	8.51779	6.14645	-0.470725767	0.0007	0.00310863
AT3G07570	23.5753	19.0392	-0.30830327	0.0099	0.0306393
AT3G07580	6.3771	10.0487	0.656036463	0.00015	0.000779873
AT3G07600	2.43435	4.88387	1.004488192	0.01245	0.0371844
AT3G07650	15.0946	57.6815	1.934076156	0.00005	0.000282578
AT3G07670	29.9537	22.7987	-0.393782658	0.00015	0.000779873
AT3G07700	32.7812	43.1419	0.396221048	0.00045	0.00210009
AT3G07730	2.736	4.91516	0.84517015	0.0015	0.00606399
AT3G07750	6.66767	9.23877	0.470518088	0.0028	0.0104493
AT3G07770	25.2711	44.3814	0.812466714	0.00005	0.000282578
AT3G07860	7.02069	13.5743	0.951193071	0.00005	0.000282578
AT3G07870	7.99446	21.7113	1.44137362	0.00005	0.000282578
AT3G07890	22.9173	18.7116	-0.292504157	0.00805	0.0257287
AT3G07980	5.67324	4.24532	-0.418299593	0.0016	0.00641937
AT3G07990	10.4882	6.15378	-0.769222329	0.00005	0.000282578
AT3G08010	65.0511	50.4441	-0.366887913	0.00365	0.0131214
AT3G08030	68.0598	49.7155	-0.453107195	0.00005	0.000282578
AT3G08040	3.23736	6.75021	1.060114581	0.00005	0.000282578
AT3G08580	635.984	518.359	-0.295038859	0.00605	0.0201752
AT3G08590	50.365	90.4129	0.844107115	0.00005	0.000282578
AT3G08600	11.6634	7.7785	-0.584424531	0.00005	0.000282578
AT3G08620	7.15776	9.81282	0.455159626	0.0063	0.0208862
AT3G08630	14.9499	10.8194	-0.466515339	0.0002	0.00101248
AT3G08650	40.2775	59.427	0.561144414	0.00005	0.000282578
AT3G08660	3.46746	1.19504	-1.536820332	0.00005	0.000282578
AT3G08670	21.5543	16.5053	-0.385046349	0.0007	0.00310863
AT3G08680	21.9034	17.3859	-0.333237081	0.00095	0.00406118
AT3G08690	29.4526	42.6265	0.533355605	0.00005	0.000282578
AT3G08720	12.9153	43.3208	1.74597873	0.00005	0.000282578
AT3G08730	41.8641	35.3164	-0.245375322	0.0161	0.0461351
AT3G08740	158.113	118.101	-0.42093481	0.00005	0.000282578

AT3G08770	41.521	31.3843	-0.403798159	0.00125	0.00516712
AT3G08820	0.677118	1.28551	0.924861657	0.0018	0.00711608
AT3G08840	9.73377	14.9556	0.6196152	0.00005	0.000282578
AT3G08860	3.04264	27.5607	3.179216979	0.00005	0.000282578
AT3G08870	1.14252	3.65231	1.676589803	0.00005	0.000282578
AT3G08880	7.49948	4.27553	-0.810687296	0.00005	0.000282578
AT3G08890	18.0113	12.3166	-0.54829826	0.0004	0.00188925
AT3G08920	64.0011	23.36	-1.454056427	0.00005	0.000282578
AT3G08940	2490.66	278.343	-3.161592386	0.00005	0.000282578
AT3G08950	5.86574	7.65652	0.38437569	0.01435	0.0418949
AT3G08970	1.4644	9.46816	2.692774407	0.00005	0.000282578
AT3G09010	1.10178	3.6295	1.719934636	0.00005	0.000282578
AT3G09020	6.69679	10.9129	0.704492902	0.00005	0.000282578
AT3G09070	6.12885	8.17262	0.415182259	0.00105	0.00443869
AT3G09150	10.6778	5.23271	-1.028984221	0.00005	0.000282578
AT3G09162	6.50762	4.06054	-0.68045841	0.0027	0.0101192
AT3G09190	3.69365	1.54448	-1.257925978	0.00005	0.000282578
AT3G09200	333.162	215.643	-0.627578973	0.00005	0.000282578
AT3G09270	34.0438	19.3939	-0.811789131	0.00005	0.000282578
AT3G09300	48.8434	38.0216	-0.361344386	0.0004	0.00188925
AT3G09330	1.51641	0.642007	-1.239998943	0.00035	0.00167549
AT3G09350	9.23311	14.8296	0.683591105	0.00005	0.000282578
AT3G09370	5.44511	8.33764	0.614677887	0.00005	0.000282578
AT3G09390	501.488	1036.09	1.046862244	0.00005	0.000282578
AT3G09400	0.723567	2.80829	1.956493407	0.00005	0.000282578
AT3G09405	0.808732	2.6511	1.712857488	0.0013	0.00534838
AT3G09410	19.8435	24.8724	0.325879213	0.0045	0.0156801
AT3G09440	95.5483	199.266	1.06039346	0.00005	0.000282578
AT3G09455	12.3215	19.1199	0.63389708	0.01195	0.0359229
AT3G09470	28.6668	34.8422	0.281454852	0.007	0.0228553
AT3G09480	2.71539	4.77081	0.81307481	0.00635	0.0210292
AT3G09490	4.84632	7.38681	0.608061801	0.00065	0.00291062
AT3G09520	0.53427	2.19297	2.037245161	0.00005	0.000282578
AT3G09540	14.2744	7.7612	-0.879078468	0.00005	0.000282578
AT3G09560	9.84221	19.3685	0.976658024	0.00005	0.000282578
AT3G09580	14.5083	9.27113	-0.646061387	0.0009	0.00387377
AT3G09600	2.10384	3.09218	0.555599313	0.0084	0.0266576
AT3G09630	189.689	146.811	-0.369675952	0.0003	0.00145851
AT3G09650	10.5948	15.2898	0.529213182	0.00015	0.000779873
AT3G09660	2.11359	3.5883	0.763604966	0.016	0.0458958
AT3G09740	88.172	66.2528	-0.412339157	0.00035	0.00167549
AT3G09780	3.12521	1.19824	-1.383036236	0.00005	0.000282578
AT3G09790	0.534543	0.905974	0.761163641	0.0132	0.0390601
AT3G09800	14.4415	6.7706	-1.092865005	0.00005	0.000282578
AT3G09820	147.831	117.558	-0.330576113	0.00085	0.00368886
AT3G09830	7.3494	14.1437	0.9444612	0.00005	0.000282578
AT3G09850	24.7483	31.1928	0.333883633	0.00095	0.00406118

AT3G09860	163.246	137.751	-0.24498485	0.01545	0.0445673
AT3G09900	26.3299	19.9729	-0.398658219	0.0028	0.0104493
AT3G09922	58.1797	510.125	3.132263043	0.00005	0.000282578
AT3G09970	16.9072	25.2009	0.575837503	0.00005	0.000282578
AT3G10020	358.363	173.721	-1.044649528	0.00005	0.000282578
AT3G10030	16.8296	20.829	0.30759269	0.00495	0.0169989
AT3G10040	1.54771	2.9899	0.949962059	0.0001	0.000537698
AT3G10050	19.5917	12.855	-0.607912978	0.00005	0.000282578
AT3G10060	111.776	43.5759	-1.359008086	0.00005	0.000282578
AT3G10080	17.6316	11.7233	-0.588784667	0.00005	0.000282578
AT3G10150	0.210841	11.3998	5.756709264	0.01695	0.0481277
AT3G10160	22.2368	28.728	0.369508367	0.00055	0.00251246
AT3G10180	1.63877	0.81933	-1.000096842	0.00005	0.000282578
AT3G10190	8.83367	19.5989	1.149687841	0.00005	0.000282578
AT3G10230	50.1707	35.5535	-0.496853477	0.00015	0.000779873
AT3G10260	43.1079	33.0404	-0.383721131	0.0005	0.00230701
AT3G10270	22.0321	18.4436	-0.25648673	0.0168	0.0477826
AT3G10300	33.3119	22.318	-0.577829895	0.00005	0.000282578
AT3G10310	4.2905	2.5297	-0.76217948	0.00005	0.000282578
AT3G10320	1.64124	9.66795	2.558423791	0.00005	0.000282578
AT3G10340	12.7037	10.0045	-0.344599682	0.0024	0.0091296
AT3G10360	21.6698	14.6873	-0.561116632	0.00005	0.000282578
AT3G10370	18.5485	23.8687	0.363817471	0.00085	0.00368886
AT3G10405	18.9059	12.7927	-0.563515741	0.00005	0.000282578
AT3G10410	68.9173	122.383	0.828465083	0.00005	0.000282578
AT3G10430	0	0.561274	inf	0.00005	0.000282578
AT3G10440	5.47902	3.85601	-0.506809077	0.0007	0.00310863
AT3G10450	4.94945	31.1844	2.655484379	0.00005	0.000282578
AT3G10490	22.1186	28.4665	0.36400505	0.0009	0.00387377
AT3G10500	13.2517	17.8929	0.433209784	0.0003	0.00145851
AT3G10520	119.694	49.3156	-1.279234843	0.00005	0.000282578
AT3G10525	9.18873	14.2083	0.628796567	0.0009	0.00387377
AT3G10570	3.73846	2.74912	-0.443474215	0.01125	0.0341282
AT3G10680	1.84785	0.595882	-1.632749077	0.00005	0.000282578
AT3G10690	14.6583	12.0311	-0.284949243	0.0101	0.0311631
AT3G10720	34.7159	20.5621	-0.755608959	0.00005	0.000282578
AT3G10730	13.3623	10.2914	-0.376729101	0.00195	0.00762526
AT3G10740	70.8873	51.2663	-0.467516402	0.00005	0.000282578
AT3G10770	56.7752	41.804	-0.44161989	0.00005	0.000282578
AT3G10800	17.0104	26.3782	0.632929055	0.00005	0.000282578
AT3G10815	2.32818	5.00555	1.104325996	0.00005	0.000282578
AT3G10820	4.27595	6.73002	0.654365809	0.00295	0.0109262
AT3G10880	1.54341	0.639875	-1.270259352	0.00065	0.00291062
AT3G10920	193.367	151.58	-0.351262194	0.0005	0.00230701
AT3G10930	1.49646	6.53395	2.126401698	0.00005	0.000282578
AT3G10940	29.9632	37.6849	0.330794856	0.00315	0.0115529
AT3G10985	63.4503	105.204	0.729490668	0.00005	0.000282578

AT3G11010	1.77458	5.57218	1.650764248	0.00005	0.000282578
AT3G11090	18.008	14.1649	-0.346317545	0.0147	0.0427366
AT3G11120	123.09	80.3806	-0.614794309	0.00015	0.000779873
AT3G11150	0.79342	1.48554	0.904830782	0.00835	0.0265257
AT3G11210	11.7024	4.96181	-1.23786604	0.00005	0.000282578
AT3G11230	30.211	41.9248	0.472729963	0.00205	0.00796423
AT3G11260	1.44812	0.568652	-1.348563221	0.0062	0.0206032
AT3G11270	12.3794	17.8211	0.525644997	0.00005	0.000282578
AT3G11330	15.8352	19.4703	0.298140025	0.0063	0.0208862
AT3G11340	13.8847	18.8699	0.442590772	0.00015	0.000779873
AT3G11370	0.476585	1.11392	1.224840174	0.0006	0.00271108
AT3G11400	84.1757	66.6506	-0.336785951	0.00105	0.00443869
AT3G11410	18.4127	31.0321	0.753060134	0.00005	0.000282578
AT3G11420	11.6724	8.87202	-0.395766706	0.00105	0.00443869
AT3G11490	12.8327	9.06866	-0.500863449	0.00005	0.000282578
AT3G11500	43.838	35.4394	-0.306827802	0.0148	0.0429916
AT3G11510	217.04	180.276	-0.267753608	0.0073	0.0236941
AT3G11520	4.50875	3.14604	-0.519190504	0.00535	0.0181609
AT3G11540	13.5759	16.8128	0.308512168	0.00345	0.0125039
AT3G11550	23.6449	16.9855	-0.477225353	0.00025	0.00123846
AT3G11560	78.0013	58.6818	-0.410585044	0.00005	0.000282578
AT3G11580	1.76848	3.47897	0.976150335	0.00045	0.00210009
AT3G11590	20.2833	16.1054	-0.332747899	0.00275	0.0102843
AT3G11600	16.8036	10.5143	-0.676417544	0.00005	0.000282578
AT3G11630	627.9	306.493	-1.034680688	0.00005	0.000282578
AT3G11660	45.6665	97.8657	1.09966709	0.00005	0.000282578
AT3G11670	26.7187	43.1711	0.692216038	0.00005	0.000282578
AT3G11720	13.7858	10.252	-0.427277607	0.00045	0.00210009
AT3G11780	116.581	78.7359	-0.566239187	0.00005	0.000282578
AT3G11800	68.2584	45.2006	-0.594664674	0.00005	0.000282578
AT3G11840	2.84705	6.45269	1.180432887	0.00005	0.000282578
AT3G11850	9.94471	5.30233	-0.907302839	0.00005	0.000282578
AT3G11880	18.5998	25.5181	0.456233806	0.00005	0.000282578
AT3G11930	169.368	107.417	-0.656938986	0.00005	0.000282578
AT3G11940	277.086	191.879	-0.530136993	0.00005	0.000282578
AT3G11945	54.51	30.778	-0.824621434	0.00005	0.000282578
AT3G12010	21.3394	16.5226	-0.369078885	0.0004	0.00188925
AT3G12020	21.1899	13.8561	-0.612855532	0.00005	0.000282578
AT3G12040	3.30273	8.88509	1.427727357	0.0173	0.0489639
AT3G12050	30.434	58.936	0.953465185	0.00005	0.000282578
AT3G12110	14.6004	10.239	-0.511933074	0.00005	0.000282578
AT3G12120	496.434	645.317	0.378406105	0.0007	0.00310863
AT3G12145	8.56246	6.52101	-0.392929911	0.00995	0.030766
AT3G12150	12.6145	7.28238	-0.792601095	0.00005	0.000282578
AT3G12170	3.37684	1.82296	-0.889390918	0.00145	0.00588787
AT3G12180	11.9086	16.1964	0.443669362	0.0041	0.0144768
AT3G12220	0.205029	1.21341	2.565167217	0.0054	0.0183008

AT3G12240	0.662605	1.19308	0.848469789	0.01465	0.0426155
AT3G12290	127.967	100.666	-0.346195323	0.00115	0.00480526
AT3G12320	9.73991	2.36344	-2.043020202	0.00005	0.000282578
AT3G12345	206.165	81.5801	-1.337510251	0.00005	0.000282578
AT3G12350	15.1859	24.4666	0.688081218	0.00005	0.000282578
AT3G12390	111.811	73.4267	-0.60668546	0.00005	0.000282578
AT3G12490	207.451	129.467	-0.680186197	0.00005	0.000282578
AT3G12500	44.7542	150.89	1.753402212	0.00005	0.000282578
AT3G12510	3.44212	7.201	1.064899873	0.01085	0.033099
AT3G12520	5.3282	13.343	1.324362932	0.00005	0.000282578
AT3G12560	13.448	18.5496	0.463996447	0.0005	0.00230701
AT3G12580	5.12592	166.628	5.022676077	0.00005	0.000282578
AT3G12600	40.8975	26.4978	-0.626140072	0.00005	0.000282578
AT3G12610	68.7493	33.9378	-1.018451978	0.00005	0.000282578
AT3G12620	25.986	20.2424	-0.360354228	0.0006	0.00271108
AT3G12630	61.9114	74.095	0.259171108	0.01015	0.0312969
AT3G12700	19.1164	15.5163	-0.301026286	0.0107	0.0327122
AT3G12710	37.5201	16.678	-1.16971738	0.00005	0.000282578
AT3G12740	42.0533	52.8862	0.330672302	0.0022	0.00846997
AT3G12770	1.01834	2.33235	1.195564976	0.01565	0.0450446
AT3G12800	86.2454	110.379	0.355946304	0.0005	0.00230701
AT3G12810	9.6598	7.73772	-0.320084795	0.00155	0.00624225
AT3G12870	10.7868	4.46356	-1.273000216	0.00005	0.000282578
AT3G12910	0	0.523931	inf	0.00005	0.000282578
AT3G12915	4.01279	3.05203	-0.394836515	0.0099	0.0306393
AT3G12920	16.5268	9.0438	-0.869806417	0.00005	0.000282578
AT3G12930	38.9116	24.7913	-0.650366378	0.00005	0.000282578
AT3G12977	3.54907	1.38999	-1.352366526	0.00005	0.000282578
AT3G13040	47.4706	38.4257	-0.304962743	0.0017	0.00676327
AT3G13050	6.709	10.0046	0.576493838	0.00005	0.000282578
AT3G13060	35.1646	27.6856	-0.344988018	0.0005	0.00230701
AT3G13065	4.74535	1.76572	-1.426257914	0.0081	0.0258615
AT3G13080	12.8854	29.2828	1.184316186	0.00005	0.000282578
AT3G13090	0.518118	0.290676	-0.833868747	0.0047	0.0162675
AT3G13110	54.0023	133.349	1.304114247	0.00005	0.000282578
AT3G13120	332.54	190.732	-0.801980976	0.00005	0.000282578
AT3G13175	7.35175	4.43063	-0.730575855	0.0029	0.0107667
AT3G13180	19.5548	10.6351	-0.878689182	0.00005	0.000282578
AT3G13200	94.6525	79.2795	-0.255692748	0.01035	0.0318215
AT3G13225	15.4869	9.79141	-0.661459857	0.00005	0.000282578
AT3G13310	27.9338	38.0022	0.444071095	0.00025	0.00123846
AT3G13330	17.7146	14.4768	-0.29119615	0.00475	0.0164173
AT3G13380	3.0217	4.68319	0.632131136	0.00005	0.000282578
AT3G13435	6.99032	15.6202	1.15998252	0.00005	0.000282578
AT3G13437	5.1712	13.0112	1.331183017	0.00005	0.000282578
AT3G13450	32.0135	23.1685	-0.466515771	0.00115	0.00480526
AT3G13460	179.576	132.563	-0.437916392	0.00005	0.000282578



AT3G13470	39.0783	107.614	1.461426164	0.00005	0.000282578
AT3G13490	30.6736	24.5335	-0.322244432	0.00235	0.00897001
AT3G13510	16.4559	21.9203	0.413662611	0.0003	0.00145851
AT3G13520	107.996	85.5208	-0.336630624	0.0018	0.00711608
AT3G13530	6.89052	5.34984	-0.365117117	0.00045	0.00210009
AT3G13580	75.577	98.9718	0.389070265	0.00015	0.000779873
AT3G13600	2.80703	1.58905	-0.820879962	0.0004	0.00188925
AT3G13630	0	0.918587	inf	0.00005	0.000282578
AT3G13670	58.5865	49.4202	-0.245467416	0.016	0.0458958
AT3G13680	0.109291	1.73211	3.986284047	0.0011	0.00462106
AT3G13690	27.4561	16.9791	-0.693366724	0.00005	0.000282578
AT3G13700	7.39948	3.9824	-0.893785753	0.0019	0.00745613
AT3G13720	25.0889	19.5015	-0.363464122	0.0009	0.00387377
AT3G13730	2.75444	4.13008	0.58441069	0.0011	0.00462106
AT3G13740	34.7543	14.4066	-1.270461592	0.00005	0.000282578
AT3G13750	235.199	85.1875	-1.465168269	0.00005	0.000282578
AT3G13790	44.0242	78.0716	0.826501049	0.00005	0.000282578
AT3G13810	12.4507	19.5279	0.649309957	0.00005	0.000282578
AT3G13840	0.193506	1.05758	2.450316594	0.00035	0.00167549
AT3G13860	12.7812	21.931	0.778948303	0.00005	0.000282578
AT3G13880	0.993358	2.52369	1.345149051	0.00005	0.000282578
AT3G13882	48.2968	39.1383	-0.303346511	0.0091	0.0285401
AT3G13910	41.2149	70.5584	0.775651852	0.00005	0.000282578
AT3G13920	209.222	149.645	-0.483490485	0.00005	0.000282578
AT3G13930	72.0553	56.8883	-0.340972582	0.00135	0.00552942
AT3G13950	1.17298	6.46909	2.463384369	0.00005	0.000282578
AT3G13960	5.17929	1.93634	-1.419422044	0.00005	0.000282578
AT3G13980	19.4011	10.9	-0.831810317	0.00005	0.000282578
AT3G14000	7.30029	4.31392	-0.758954353	0.00005	0.000282578
AT3G14020	4.47822	6.60687	0.561041553	0.00095	0.00406118
AT3G14050	25.3347	20.6102	-0.297756241	0.0041	0.0144768
AT3G14067	74.6052	111.425	0.578724866	0.00005	0.000282578
AT3G14100	74.8217	117.163	0.646988389	0.00005	0.000282578
AT3G14110	114.576	79.5095	-0.527105725	0.0023	0.00880163
AT3G14120	8.57816	11.334	0.401916977	0.00125	0.00516712
AT3G14150	23.8899	18.5812	-0.362557139	0.00555	0.0187351
AT3G14172	15.8894	12.764	-0.315984134	0.0024	0.0091296
AT3G14190	8.04177	3.49116	-1.203806598	0.00005	0.000282578
AT3G14200	17.4491	42.3466	1.279093514	0.00005	0.000282578
AT3G14205	19.9096	26.8637	0.432193788	0.00005	0.000282578
AT3G14220	49.4968	38.6959	-0.355154542	0.0007	0.00310863
AT3G14240	53.2502	44.6975	-0.252592802	0.0112	0.0340068
AT3G14260	1.95768	0.558181	-1.810340041	0.00075	0.0032996
AT3G14290	48.337	32.4806	-0.573549653	0.00005	0.000282578
AT3G14330	8.35521	6.61805	-0.336269898	0.00655	0.021582
AT3G14350	50.7736	37.6159	-0.432735946	0.00005	0.000282578
AT3G14440	2.15791	1.31821	-0.711054476	0.0006	0.00271108

AT3G14540	1.03547	0.449494	-1.203911993	0.00095	0.00406118
AT3G14560	9.51679	7.21866	-0.398743982	0.0142	0.0415192
AT3G14570	2.57099	3.20355	0.317347509	0.01075	0.0328373
AT3G14580	1.56669	2.63794	0.751692008	0.00535	0.0181609
AT3G14595	89.4629	55.0319	-0.701021386	0.00005	0.000282578
AT3G14600	122.42	90.6599	-0.433302798	0.00005	0.000282578
AT3G14610	9.63123	14.3201	0.572249606	0.00005	0.000282578
AT3G14620	13.7485	86.2743	2.649656638	0.00005	0.000282578
AT3G14680	12.6321	7.70986	-0.712317929	0.00005	0.000282578
AT3G14690	46.7476	57.5273	0.29935446	0.0031	0.0114009
AT3G14700	0.489803	2.96042	2.595528353	0.00005	0.000282578
AT3G14730	1.42671	2.48481	0.800443425	0.00035	0.00167549
AT3G14740	4.53388	2.41383	-0.909422133	0.00005	0.000282578
AT3G14760	10.7781	3.40846	-1.66091092	0.00005	0.000282578
AT3G14770	8.44084	6.26071	-0.431060301	0.00345	0.0125039
AT3G14780	2.07739	3.66377	0.818556852	0.00075	0.0032996
AT3G14790	20.6143	10.7091	-0.944808232	0.00005	0.000282578
AT3G14810	9.35048	5.55891	-0.750238402	0.00005	0.000282578
AT3G14830	14.9593	18.0856	0.273798793	0.01555	0.0447988
AT3G14850	3.80935	2.34845	-0.69783597	0.00145	0.00588787
AT3G14870	2.63716	3.55054	0.429053356	0.0142	0.0415192
AT3G14890	8.52484	5.57966	-0.611495544	0.00005	0.000282578
AT3G14930	129.463	40.3858	-1.680619817	0.00005	0.000282578
AT3G14940	43.8079	68.4762	0.644411585	0.00005	0.000282578
AT3G14990	243.904	329.545	0.434162063	0.00005	0.000282578
AT3G15030	30.3779	17.584	-0.78875885	0.00005	0.000282578
AT3G15040	12.8534	9.67427	-0.409925326	0.00135	0.00552942
AT3G15060	11.4044	7.29061	-0.645479113	0.0098	0.0303881
AT3G15070	18.9743	14.4014	-0.397837596	0.0037	0.0132727
AT3G15110	64.3932	38.9536	-0.725151681	0.00005	0.000282578
AT3G15115	8.59453	3.74755	-1.19747102	0.00005	0.000282578
AT3G15140	3.72726	7.06678	0.922937537	0.00005	0.000282578
AT3G15160	22.7687	15.7694	-0.529924153	0.00005	0.000282578
AT3G15190	346.928	168.573	-1.041262802	0.00005	0.000282578
AT3G15210	23.5118	38.4566	0.709846226	0.00005	0.000282578
AT3G15240	3.08809	4.23857	0.456862814	0.0169	0.0480113
AT3G15300	5.35449	3.49381	-0.615948015	0.0036	0.0129656
AT3G15340	0.659556	1.17087	0.828013842	0.0045	0.0156801
AT3G15354	12.6034	23.9608	0.926863098	0.00005	0.000282578
AT3G15356	83.6025	46.1907	-0.855943675	0.00005	0.000282578
AT3G15357	5.07405	8.85699	0.803678754	0.00065	0.00291062
AT3G15358	4.42641	2.35284	-0.911733872	0.0003	0.00145851
AT3G15360	475.68	248.04	-0.939418574	0.00005	0.000282578
AT3G15380	12.3914	15.5558	0.328113397	0.0075	0.0242445
AT3G15410	28.5787	19.3014	-0.566234797	0.00005	0.000282578
AT3G15430	17.897	22.5557	0.333774285	0.00265	0.00995735
AT3G15440	2.34613	0.533283	-2.137309712	0.0034	0.0123479

AT3G15450	1026.55	320.633	-1.678809076	0.00005	0.000282578
AT3G15470	15.0619	12.5758	-0.260253593	0.01465	0.0426155
AT3G15480	55.7409	40.4249	-0.463492092	0.00005	0.000282578
AT3G15500	3.58803	11.0086	1.61736715	0.00005	0.000282578
AT3G15520	47.8784	22.7971	-1.070524629	0.00005	0.000282578
AT3G15550	6.32117	3.0084	-1.071195213	0.00025	0.00123846
AT3G15570	24.2168	6.24608	-1.954985288	0.00005	0.000282578
AT3G15590	14.54	24.97	0.780168552	0.00005	0.000282578
AT3G15640	54.9957	34.346	-0.679176732	0.00005	0.000282578
AT3G15680	19.0234	13.4715	-0.49786462	0.00025	0.00123846
AT3G15690	55.2539	38.2026	-0.532405469	0.00005	0.000282578
AT3G15720	3.03872	7.00672	1.2052755	0.00005	0.000282578
AT3G15730	197.217	143.608	-0.457647797	0.00005	0.000282578
AT3G15750	8.42751	4.09279	-1.04202179	0.00005	0.000282578
AT3G15780	8.44565	14.9542	0.824270367	0.00025	0.00123846
AT3G15790	11.5391	20.2964	0.814693153	0.00005	0.000282578
AT3G15800	2.25777	1.38792	-0.701974113	0.00915	0.0286771
AT3G15810	34.3306	46.518	0.438293999	0.00005	0.000282578
AT3G15820	28.0004	14.624	-0.937109461	0.00005	0.000282578
AT3G15840	373.658	258.683	-0.530533164	0.00005	0.000282578
AT3G15850	86.7668	47.3265	-0.87449489	0.00005	0.000282578
AT3G15990	2.99497	10.9512	1.870475508	0.00395	0.0140308
AT3G16000	75.1942	36.4157	-1.046060808	0.00005	0.000282578
AT3G16030	4.24582	7.30537	0.782914134	0.00005	0.000282578
AT3G16050	5.69135	15.6655	1.460748009	0.00005	0.000282578
AT3G16060	28.414	20.1919	-0.492825272	0.00005	0.000282578
AT3G16120	1.23024	2.71631	1.142708348	0.0131	0.0388035
AT3G16140	895.826	254.563	-1.815195796	0.00005	0.000282578
AT3G16180	24.2782	17.1277	-0.503330032	0.00005	0.000282578
AT3G16190	45.3232	56.2627	0.311929063	0.00475	0.0164173
AT3G16240	1375.5	556.67	-1.305061899	0.00005	0.000282578
AT3G16260	15.0619	11.1515	-0.43366599	0.00005	0.000282578
AT3G16310	18.999	25.2604	0.410953999	0.00035	0.00167549
AT3G16330	2.8556	6.31948	1.146011944	0.00005	0.000282578
AT3G16350	7.42919	4.38611	-0.760262929	0.00005	0.000282578
AT3G16360	4.11517	10.7826	1.38968116	0.00005	0.000282578
AT3G16370	415.157	155.052	-1.420904889	0.00005	0.000282578
AT3G16390	9.27018	5.43492	-0.770338553	0.00005	0.000282578
AT3G16400	487.704	683.168	0.486234595	0.00005	0.000282578
AT3G16410	11.0377	16.1521	0.549282168	0.00005	0.000282578
AT3G16440	19.2214	13.7909	-0.478996809	0.00015	0.000779873
AT3G16470	165.219	306.525	0.891625139	0.00005	0.000282578
AT3G16500	26.1393	36.7457	0.491354928	0.00015	0.000779873
AT3G16510	5.45808	3.57864	-0.60898212	0.0011	0.00462106
AT3G16520	117.546	58.1053	-1.016483778	0.00005	0.000282578
AT3G16530	123.148	297.051	1.270317448	0.00005	0.000282578
AT3G16560	19.5091	10.6829	-0.868843888	0.00005	0.000282578

AT3G16565	9.72481	13.7141	0.495917979	0.0017	0.00676327
AT3G16630	39.7838	29.164	-0.447992477	0.00005	0.000282578
AT3G16640	1562.57	4205.48	1.428349653	0.00005	0.000282578
AT3G16650	1.54634	4.99139	1.690584067	0.00005	0.000282578
AT3G16660	118.21	166.846	0.497165014	0.00005	0.000282578
AT3G16670	436.485	61.9154	-2.81756188	0.00005	0.000282578
AT3G16690	25.6453	17.5583	-0.546541279	0.00005	0.000282578
AT3G16700	6.4236	4.1933	-0.61529601	0.00285	0.010609
AT3G16720	12.5088	29.9653	1.260349423	0.00005	0.000282578
AT3G16730	3.42258	2.46461	-0.473724891	0.0045	0.0156801
AT3G16760	23.4301	18.923	-0.308222284	0.0044	0.0153749
AT3G16770	356.882	611.846	0.777721438	0.00005	0.000282578
AT3G16780	61.484	46.6863	-0.39721177	0.00025	0.00123846
AT3G16800	15.4236	12.2771	-0.329169723	0.0083	0.0263922
AT3G16850	88.7687	49.2313	-0.850475234	0.00005	0.000282578
AT3G16910	18.3793	51.9838	1.499980278	0.00005	0.000282578
AT3G16950	35.7333	18.2685	-0.967910973	0.00005	0.000282578
AT3G16990	4.06595	7.36237	0.856577781	0.00005	0.000282578
AT3G17020	317.307	265.676	-0.256211441	0.01195	0.0359229
AT3G17040	50.3564	27.9757	-0.848000918	0.00005	0.000282578
AT3G17090	33.3186	23.1494	-0.525352981	0.00005	0.000282578
AT3G17100	45.3785	31.2928	-0.536178168	0.00005	0.000282578
AT3G17160	31.9921	21.6377	-0.564168541	0.01445	0.0421356
AT3G17170	48.5054	30.9069	-0.650216411	0.00005	0.000282578
AT3G17210	109.577	138.892	0.342018493	0.00095	0.00406118
AT3G17225	1.17732	2.39533	1.024717923	0.00825	0.0262625
AT3G17240	61.1466	48.8937	-0.322623697	0.00435	0.0152293
AT3G17280	0.614881	1.5148	1.300748193	0.0008	0.00349363
AT3G17330	12.7094	9.13947	-0.475713513	0.00005	0.000282578
AT3G17340	10.1588	7.64784	-0.409605749	0.00015	0.000779873
AT3G17350	10.2885	6.67144	-0.624962562	0.0007	0.00310863
AT3G17360	2.53562	1.29438	-0.970077331	0.00005	0.000282578
AT3G17390	409.939	281.367	-0.542956116	0.00005	0.000282578
AT3G17465	20.3948	29.3335	0.524347861	0.00005	0.000282578
AT3G17470	16.9792	21.2771	0.325533044	0.0034	0.0123479
AT3G17510	40.484	30.6923	-0.39947508	0.00005	0.000282578
AT3G17580	3.08956	1.47725	-1.064487392	0.0055	0.0185914
AT3G17590	15.1393	9.12128	-0.730990302	0.00005	0.000282578
AT3G17600	1.10237	2.39345	1.118483136	0.0046	0.01597
AT3G17609	9.33235	27.1249	1.539305499	0.00005	0.000282578
AT3G17611	3.36496	12.7034	1.916553418	0.00005	0.000282578
AT3G17626	5.90359	10.4507	0.823935143	0.00475	0.0164173
AT3G17630	1.47306	2.76115	0.90645307	0.00005	0.000282578
AT3G17650	36.9319	58.5293	0.664291539	0.00005	0.000282578
AT3G17680	7.91624	3.50867	-1.173891087	0.00005	0.000282578
AT3G17700	4.84608	7.69496	0.667095606	0.00005	0.000282578
AT3G17710	4.54625	6.42481	0.49897677	0.00665	0.0218627

AT3G17712	1.41873	2.02763	0.51519436	0.01025	0.0315592
AT3G17730	2.09204	0.697165	-1.585338388	0.0001	0.000537698
AT3G17740	5.36188	7.76336	0.533942257	0.00005	0.000282578
AT3G17750	15.0038	11.4212	-0.393613698	0.00005	0.000282578
AT3G17780	25.5953	18.7538	-0.448695964	0.00025	0.00123846
AT3G17790	45.9437	262.848	2.516289806	0.00005	0.000282578
AT3G17800	57.9279	36.0601	-0.683854968	0.0126	0.0375592
AT3G17810	58.2832	45.333	-0.362518452	0.0002	0.00101248
AT3G17850	27.1708	21.9621	-0.307041034	0.00165	0.00658915
AT3G17860	12.0207	9.55408	-0.331332049	0.0093	0.029061
AT3G17880	24.213	31.1003	0.361146656	0.0006	0.00271108
AT3G17900	23.8286	19.8103	-0.266443463	0.0161	0.0461351
AT3G18000	54.3316	33.304	-0.70609607	0.00005	0.000282578
AT3G18020	1.78378	3.01391	0.756698643	0.0003	0.00145851
AT3G18035	55.6534	41.9928	-0.40632784	0.00015	0.000779873
AT3G18040	20.9326	16.5284	-0.340804443	0.00125	0.00516712
AT3G18050	143.666	70.6576	-1.023802022	0.00005	0.000282578
AT3G18060	60.4838	38.8183	-0.639811844	0.00005	0.000282578
AT3G18070	2.73234	1.47844	-0.886061322	0.00285	0.010609
AT3G18140	57.2102	44.7928	-0.353005536	0.0008	0.00349363
AT3G18160	11.698	8.92406	-0.390489776	0.00335	0.0121887
AT3G18200	7.89535	5.5885	-0.498542118	0.00485	0.0167116
AT3G18210	17.2932	23.9682	0.470916712	0.00005	0.000282578
AT3G18215	21.7899	37.6568	0.789250832	0.00005	0.000282578
AT3G18250	6.60051	52.425	2.98960555	0.0008	0.00349363
AT3G18280	61.3455	81.1841	0.404239683	0.00055	0.00251246
AT3G18320	3.34261	10.3706	1.633452422	0.00005	0.000282578
AT3G18390	63.3735	39.086	-0.697227746	0.00005	0.000282578
AT3G18400	5.17082	3.70142	-0.482314237	0.00975	0.0302521
AT3G18420	24.4173	31.5259	0.368633877	0.00985	0.0305115
AT3G18490	82.534	104.897	0.345912951	0.0004	0.00188925
AT3G18500	29.7936	16.8554	-0.821791592	0.00005	0.000282578
AT3G18510	1.69696	3.61705	1.091860982	0.00255	0.00962703
AT3G18524	4.26304	3.36815	-0.339926202	0.0148	0.0429916
AT3G18600	11.6641	14.9294	0.356081192	0.002	0.00779418
AT3G18610	0.517125	2.35985	2.190110202	0.00005	0.000282578
AT3G18710	3.48367	5.7091	0.712655365	0.00005	0.000282578
AT3G18780	492.253	390.716	-0.333279663	0.00155	0.00624225
AT3G18820	126.672	95.3602	-0.409638495	0.00005	0.000282578
AT3G18830	39.4236	58.5749	0.571223063	0.00005	0.000282578
AT3G18840	0.626989	0.324534	-0.950070501	0.0167	0.0475389
AT3G18850	9.73012	7.60235	-0.356012152	0.0159	0.0456527
AT3G18880	2.23274	4.6054	1.044511206	0.0052	0.0177382
AT3G18890	89.0437	58.8399	-0.597718747	0.00005	0.000282578
AT3G18930	11.2217	16.4809	0.554503779	0.00005	0.000282578
AT3G18950	2.03011	3.52499	0.796061264	0.00005	0.000282578
AT3G18980	23.5117	14.6881	-0.67873107	0.00005	0.000282578

AT3G19000	29.8832	40.6832	0.445098516	0.00005	0.000282578
AT3G19010	73.0694	60.5172	-0.271922122	0.0096	0.0298585
AT3G19030	148.354	241.258	0.701532956	0.00005	0.000282578
AT3G19050	3.06748	1.93962	-0.661279903	0.00005	0.000282578
AT3G19100	21.9104	30.5749	0.480731958	0.00005	0.000282578
AT3G19120	15.252	11.2482	-0.439304284	0.0001	0.000537698
AT3G19150	7.39026	14.8535	1.007105894	0.00005	0.000282578
AT3G19170	112.257	78.7612	-0.511248412	0.00005	0.000282578
AT3G19340	38.4937	28.3223	-0.44268392	0.00005	0.000282578
AT3G19370	20.4346	25.1523	0.299676327	0.00455	0.015822
AT3G19420	55.4907	43.754	-0.342831088	0.0005	0.00230701
AT3G19430	3.97283	1.38201	-1.523399006	0.00005	0.000282578
AT3G19440	2.66359	3.87764	0.541806841	0.00385	0.0137217
AT3G19450	65.8303	80.1777	0.28444926	0.00435	0.0152293
AT3G19470	1.49691	4.52265	1.595180869	0.00005	0.000282578
AT3G19480	23.5016	17.4618	-0.428556697	0.0094	0.0293309
AT3G19508	3.02003	8.65928	1.519684192	0.00005	0.000282578
AT3G19515	18.8751	12.7205	-0.569328909	0.00005	0.000282578
AT3G19580	4.4324	8.9597	1.015362344	0.00005	0.000282578
AT3G19590	12.5088	6.49931	-0.944584927	0.00005	0.000282578
AT3G19680	35.1522	19.5867	-0.843740633	0.00005	0.000282578
AT3G19710	55.7171	83.4237	0.58233713	0.00005	0.000282578
AT3G19720	32.3342	22.942	-0.495069751	0.00005	0.000282578
AT3G19820	278.901	172.355	-0.694369955	0.00005	0.000282578
AT3G19850	25.9782	9.32159	-1.478653508	0.00005	0.000282578
AT3G19910	28.8848	19.9614	-0.533097597	0.00005	0.000282578
AT3G19970	4.92465	13.0995	1.411418647	0.00005	0.000282578
AT3G19990	13.7326	18.5544	0.434156551	0.00025	0.00123846
AT3G20000	41.908	35.0288	-0.258684107	0.0142	0.0415192
AT3G20070	12.6652	9.18068	-0.464196938	0.00105	0.00443869
AT3G20090	3.49938	5.55182	0.665861458	0.00015	0.000779873
AT3G20100	22.9191	67.1284	1.550372864	0.00005	0.000282578
AT3G20130	7.08081	4.46473	-0.665341472	0.00005	0.000282578
AT3G20150	5.57629	2.60159	-1.099911975	0.00005	0.000282578
AT3G20230	78.5572	57.0461	-0.46161525	0.00005	0.000282578
AT3G20250	22.3043	33.0892	0.569038541	0.00005	0.000282578
AT3G20260	6.35729	4.46287	-0.510440119	0.0002	0.00101248
AT3G20300	10.2745	8.11305	-0.340751903	0.0073	0.0236941
AT3G20320	32.3343	26.423	-0.291271102	0.00805	0.0257287
AT3G20340	16.64	74.1937	2.156641255	0.00005	0.000282578
AT3G20370	140.465	84.6524	-0.730587819	0.00005	0.000282578
AT3G20395	14.2581	4.81029	-1.567585966	0.00005	0.000282578
AT3G20420	1.29697	2.63406	1.022143099	0.0001	0.000537698
AT3G20440	5.43045	4.08436	-0.410961721	0.00995	0.030766
AT3G20470	22.2606	49.3121	1.147449214	0.00005	0.000282578
AT3G20490	5.16893	3.88364	-0.412456191	0.01225	0.0366818
AT3G20500	18.2321	37.8765	1.054822281	0.00005	0.000282578

AT3G20510	28.1358	39.7012	0.49677563	0.00005	0.000282578
AT3G20540	11.8825	16.7839	0.498239586	0.00005	0.000282578
AT3G20550	16.6954	21.7432	0.381113622	0.0012	0.00498818
AT3G20570	31.6507	19.2171	-0.719846768	0.0004	0.00188925
AT3G20600	6.69072	11.2387	0.748241791	0.00005	0.000282578
AT3G20640	3.43452	4.65075	0.437354905	0.0064	0.0211702
AT3G20660	4.3773	13.3068	1.604050508	0.00005	0.000282578
AT3G20770	91.4864	76.6579	-0.255122817	0.01125	0.0341282
AT3G20800	22.7573	32.2944	0.504954615	0.00335	0.0121887
AT3G20810	5.9891	123.718	4.368572385	0.00005	0.000282578
AT3G20820	129.601	78.5717	-0.72199517	0.00005	0.000282578
AT3G20850	1.98288	0.469113	-2.079589985	0.01565	0.0450446
AT3G20930	17.1967	11.9562	-0.524372807	0.00005	0.000282578
AT3G20940	2.28927	4.04739	0.822104245	0.00005	0.000282578
AT3G21055	3644.55	1023.95	-1.831595424	0.00005	0.000282578
AT3G21070	23.8045	19.0815	-0.31905974	0.01715	0.0486055
AT3G21080	1.60674	14.3254	3.156367025	0.00005	0.000282578
AT3G21090	4.95652	3.16387	-0.64763723	0.00005	0.000282578
AT3G21190	17.5424	22.3579	0.349938549	0.00665	0.0218627
AT3G21230	6.49581	12.0127	0.886979111	0.00005	0.000282578
AT3G21240	17.5252	31.9005	0.864148128	0.00005	0.000282578
AT3G21250	20.0003	38.3433	0.938952867	0.00005	0.000282578
AT3G21260	16.368	20.8382	0.348352613	0.01105	0.0336205
AT3G21340	1.53155	0.962707	-0.669823781	0.00285	0.010609
AT3G21351	4.30191	10.2456	1.251955226	0.00005	0.000282578
AT3G21352	0	1.84341	inf	0.00005	0.000282578
AT3G21420	3.48627	14.9344	2.098883067	0.00005	0.000282578
AT3G21460	3.63412	0.361322	-3.330249054	0.002	0.00779418
AT3G21470	0.430947	0.973805	1.176122458	0.00525	0.0178784
AT3G21480	3.57388	5.3227	0.574667061	0.00005	0.000282578
AT3G21530	10.3723	14.8154	0.514361739	0.0002	0.00101248
AT3G21560	17.5896	56.8204	1.691686312	0.00005	0.000282578
AT3G21600	5.80466	8.36542	0.527226409	0.0008	0.00349363
AT3G21610	14.072	20.8774	0.569114667	0.00005	0.000282578
AT3G21620	0.474837	0.911288	0.940474714	0.00355	0.0128096
AT3G21640	14.6844	10.5809	-0.472821972	0.00065	0.00291062
AT3G21670	14.4055	21.255	0.561182523	0.00005	0.000282578
AT3G21680	1.8808	4.28568	1.188177688	0.00005	0.000282578
AT3G21690	52.1351	110.677	1.086028544	0.00005	0.000282578
AT3G21710	19.5661	26.0858	0.414908458	0.00145	0.00588787
AT3G21720	0.642727	2.65554	2.046727276	0.00005	0.000282578
AT3G21740	4.41604	7.47444	0.759212254	0.00005	0.000282578
AT3G21750	11.5519	39.0076	1.755625079	0.00005	0.000282578
AT3G21760	25.4649	42.2924	0.731888381	0.00005	0.000282578
AT3G21770	38.2982	51.4099	0.424769618	0.00005	0.000282578
AT3G21780	1.97881	3.19034	0.689077087	0.00195	0.00762526
AT3G21790	17.2325	27.9816	0.699346443	0.00005	0.000282578

AT3G21950	5.32966	2.40751	-1.14650171	0.00005	0.000282578
AT3G22060	38.5358	58.7532	0.608468089	0.00005	0.000282578
AT3G22100	0.395624	1.37457	1.796778525	0.00985	0.0305115
AT3G22110	98.9346	67.8843	-0.543397205	0.00005	0.000282578
AT3G22120	1682.61	702.887	-1.259336146	0.00005	0.000282578
AT3G22142	27.4946	6.60396	-2.057745011	0.00005	0.000282578
AT3G22150	11.4039	19.9417	0.806261109	0.00005	0.000282578
AT3G22160	7.26921	13.4425	0.886930982	0.00005	0.000282578
AT3G22190	26.0983	31.9118	0.290134152	0.00545	0.0184447
AT3G22200	171.714	210.144	0.291370597	0.00635	0.0210292
AT3G22231	5.24016	241.34	5.525312376	0.00005	0.000282578
AT3G22235	12.2169	443.698	5.182627893	0.00005	0.000282578
AT3G22240	53.2914	150.659	1.499312219	0.00005	0.000282578
AT3G22270	13.5238	16.995	0.329609776	0.0014	0.00571151
AT3G22370	40.3673	50.7992	0.331618683	0.0013	0.00534838
AT3G22410	1.57515	3.03737	0.947333441	0.00025	0.00123846
AT3G22425	15.4162	9.92872	-0.634767549	0.00005	0.000282578
AT3G22460	9.45846	16.8776	0.835432555	0.0003	0.00145851
AT3G22550	3.47978	18.7664	2.431083918	0.00005	0.000282578
AT3G22600	28.7022	71.3067	1.312876317	0.00005	0.000282578
AT3G22620	72.3446	110.553	0.611780936	0.00005	0.000282578
AT3G22810	4.15209	5.46661	0.396808739	0.01415	0.0413977
AT3G22830	0.645256	2.8591	2.147617524	0.00005	0.000282578
AT3G22840	3.39985	15.6199	2.199842215	0.00005	0.000282578
AT3G22890	195.971	272.122	0.473613419	0.00005	0.000282578
AT3G22910	0.505753	0.865967	0.775879076	0.00525	0.0178784
AT3G22930	5.59745	9.80138	0.808215154	0.0001	0.000537698
AT3G22960	180.144	108.144	-0.736196977	0.00005	0.000282578
AT3G23000	73.0877	97.9036	0.421733276	0.00005	0.000282578
AT3G23010	0.180716	1.78246	3.302073553	0.00005	0.000282578
AT3G23020	1.42556	2.66143	0.90067286	0.00005	0.000282578
AT3G23050	223.935	169.687	-0.40020399	0.00015	0.000779873
AT3G23070	19.3852	13.3011	-0.543410058	0.0002	0.00101248
AT3G23080	44.0118	13.615	-1.692693394	0.00005	0.000282578
AT3G23110	1.22643	4.05977	1.726933103	0.00005	0.000282578
AT3G23120	0.0680577	1.51978	4.480960291	0.0004	0.00188925
AT3G23150	11.0765	7.3483	-0.592019653	0.00005	0.000282578
AT3G23170	17.0749	34.5445	1.016578901	0.00005	0.000282578
AT3G23190	9.46084	7.08442	-0.417318537	0.01265	0.03769
AT3G23240	0.476461	1.1382	1.25632405	0.01745	0.0493019
AT3G23250	0.424405	3.6682	3.111558742	0.00005	0.000282578
AT3G23290	6.23706	8.45322	0.43863486	0.0039	0.0138733
AT3G23310	22.3344	16.7408	-0.415899026	0.0001	0.000537698
AT3G23325	23.1106	31.7257	0.457097281	0.0122	0.0365526
AT3G23370	0.728556	1.41369	0.956354021	0.0003	0.00145851
AT3G23390	253.693	178.823	-0.504551406	0.00005	0.000282578
AT3G23400	169.563	116.203	-0.545174082	0.00005	0.000282578



AT3G23450	15.4722	3.66717	-2.076939297	0.00005	0.000282578
AT3G23530	22.0502	15.8742	-0.474107854	0.00005	0.000282578
AT3G23570	18.5652	27.173	0.549572996	0.00055	0.00251246
AT3G23580	9.56396	13.9864	0.54834467	0.00285	0.010609
AT3G23600	172.829	212.961	0.301243935	0.0084	0.0266576
AT3G23620	22.0741	26.9043	0.285482153	0.01135	0.0343831
AT3G23640	36.6256	27.3507	-0.421274637	0.00005	0.000282578
AT3G23670	5.60418	2.45887	-1.188507832	0.00005	0.000282578
AT3G23700	118.726	69.009	-0.782779475	0.00005	0.000282578
AT3G23730	65.826	26.0554	-1.33707513	0.00005	0.000282578
AT3G23750	23.2107	16.6783	-0.476817789	0.00005	0.000282578
AT3G23760	24.32	18.2275	-0.416026527	0.0018	0.00711608
AT3G23780	8.15529	10.1758	0.319334136	0.00405	0.0143254
AT3G23790	4.93481	11.4674	1.216471882	0.00005	0.000282578
AT3G23805	17.8795	9.61774	-0.894536561	0.00005	0.000282578
AT3G23810	124.926	93.5642	-0.417045237	0.00005	0.000282578
AT3G23820	138.791	93.7109	-0.566625248	0.00005	0.000282578
AT3G23840	5.5829	4.08555	-0.450484407	0.007	0.0228553
AT3G23880	9.28007	24.9098	1.424505845	0.00005	0.000282578
AT3G23890	10.7973	5.43506	-0.990302727	0.00005	0.000282578
AT3G23900	20.8641	17.1221	-0.285163032	0.00745	0.0241032
AT3G23920	21.0142	48.8832	1.217974195	0.00005	0.000282578
AT3G23930	1.4082	2.9027	1.043543226	0.00095	0.00406118
AT3G23990	39.8053	72.2209	0.859455863	0.00005	0.000282578
AT3G24000	2.11014	6.0463	1.518713844	0.00005	0.000282578
AT3G24100	74.4705	196.321	1.398473554	0.00005	0.000282578
AT3G24120	26.1705	18.9684	-0.464343497	0.00015	0.000779873
AT3G24140	11.4822	18.1239	0.658494346	0.00005	0.000282578
AT3G24150	9.10813	7.16263	-0.346665464	0.0161	0.0461351
AT3G24210	2.35543	1.52261	-0.629443999	0.002	0.00779418
AT3G24240	3.07927	4.24934	0.464650409	0.0007	0.00310863
AT3G24300	14.6835	8.06868	-0.863791315	0.00005	0.000282578
AT3G24310	0.98696	0.378234	-1.383712561	0.00695	0.0227126
AT3G24320	2.5834	4.74942	0.878480302	0.00005	0.000282578
AT3G24350	23.9971	16.8411	-0.510873697	0.00005	0.000282578
AT3G24430	76.1561	46.7883	-0.702811788	0.00005	0.000282578
AT3G24480	85.7537	55.2839	-0.633339526	0.00005	0.000282578
AT3G24500	6.19324	66.8827	3.43286683	0.00005	0.000282578
AT3G24506	24.6235	19.8623	-0.310003149	0.0145	0.0422563
AT3G24515	4.36363	3.01886	-0.531524925	0.00605	0.0201752
AT3G24520	9.56	13.8052	0.530129266	0.00005	0.000282578
AT3G24535	2.8823	1.63338	-0.819360036	0.0123	0.0368055
AT3G24570	22.36	16.1887	-0.465933051	0.0028	0.0104493
AT3G24590	48.1546	30.6281	-0.652817746	0.00005	0.000282578
AT3G24760	8.93993	15.2787	0.773186356	0.00005	0.000282578
AT3G24770	9.8395	13.6188	0.468942677	0.001	0.00425239
AT3G24780	0.228517	0.492799	1.108697833	0.00765	0.024665

AT3G24830	266.916	160.543	-0.733426027	0.00005	0.000282578
AT3G24840	5.93441	4.55496	-0.381666219	0.00515	0.0175936
AT3G24900	0.0741004	0.714763	3.269911719	0.0026	0.00979559
AT3G25010	1.10836	4.81956	2.120474891	0.00005	0.000282578
AT3G25013	2.39573	6.55907	1.453025947	0.00005	0.000282578
AT3G25020	3.47021	6.73329	0.956288632	0.00005	0.000282578
AT3G25100	1.93875	1.20067	-0.691287095	0.0024	0.0091296
AT3G25130	2.47007	6.02555	1.286541006	0.00005	0.000282578
AT3G25190	32.0199	15.6044	-1.037015917	0.00005	0.000282578
AT3G25230	41.1344	77.8461	0.920279364	0.00005	0.000282578
AT3G25240	4.40471	37.8324	3.102503358	0.00005	0.000282578
AT3G25290	7.1163	29.1823	2.035894357	0.00005	0.000282578
AT3G25470	56.6567	45.7024	-0.309976645	0.01605	0.0460241
AT3G25500	20.926	15.2503	-0.456458944	0.00005	0.000282578
AT3G25520	297.763	229.783	-0.373892429	0.0001	0.000537698
AT3G25530	92.7527	70.78	-0.390047517	0.00025	0.00123846
AT3G25570	11.5762	7.81784	-0.566319789	0.0001	0.000537698
AT3G25580	12.8348	7.87967	-0.703853699	0.00005	0.000282578
AT3G25585	29.5442	38.2345	0.372000074	0.0004	0.00188925
AT3G25590	2.27862	3.94758	0.792808154	0.0001	0.000537698
AT3G25610	6.55354	12.5867	0.941553767	0.00005	0.000282578
AT3G25620	1.14007	2.02947	0.831980606	0.00005	0.000282578
AT3G25660	60.2962	35.9745	-0.745092448	0.00005	0.000282578
AT3G25670	3.05904	0.652439	-2.229164044	0.00005	0.000282578
AT3G25680	14.4819	9.62173	-0.589882673	0.00005	0.000282578
AT3G25710	6.64829	10.8408	0.705416005	0.00005	0.000282578
AT3G25740	16.7366	8.1438	-1.039232441	0.00005	0.000282578
AT3G25760	47.6549	121.683	1.352431159	0.00005	0.000282578
AT3G25770	130.266	221.993	0.769053602	0.00005	0.000282578
AT3G25780	3.76041	8.7737	1.222295409	0.00005	0.000282578
AT3G25790	6.14575	11.0968	0.852482718	0.00005	0.000282578
AT3G25805	19.4424	15.649	-0.313135849	0.01335	0.0394316
AT3G25820	18.3503	12.854	-0.513586272	0.00005	0.000282578
AT3G25860	56.0458	31.0409	-0.852435876	0.00005	0.000282578
AT3G25882	1.62008	8.29288	2.355808161	0.00005	0.000282578
AT3G25890	8.12193	16.8636	1.054018054	0.00005	0.000282578
AT3G25920	451.419	256.265	-0.81683069	0.00005	0.000282578
AT3G25940	8.38693	13.0743	0.640518986	0.0016	0.00641937
AT3G25980	18.0823	9.69058	-0.899923273	0.0042	0.0147771
AT3G26050	1.62365	0.980713	-0.727337766	0.00555	0.0187351
AT3G26060	313.905	193.63	-0.697025515	0.00005	0.000282578
AT3G26080	13.7998	22.3329	0.694523244	0.00005	0.000282578
AT3G26085	28.5453	39.0557	0.452279894	0.0024	0.0091296
AT3G26100	38.8292	31.1654	-0.317196754	0.0018	0.00711608
AT3G26170	1.73682	35.5168	4.353981454	0.00005	0.000282578
AT3G26180	39.8654	62.4655	0.647922457	0.00005	0.000282578
AT3G26200	6.43195	10.9941	0.77340141	0.00005	0.000282578

AT3G26210	12.3982	22.7064	0.872968309	0.00005	0.000282578
AT3G26220	6.58747	22.3945	1.765348064	0.00005	0.000282578
AT3G26230	3.7807	15.5743	2.042442041	0.00005	0.000282578
AT3G26280	53.7386	38.5779	-0.478184125	0.00005	0.000282578
AT3G26290	79.556	49.977	-0.670706438	0.00005	0.000282578
AT3G26310	11.0012	7.67604	-0.519226766	0.0003	0.00145851
AT3G26330	11.1198	15.238	0.45454272	0.00025	0.00123846
AT3G26340	17.6136	13.289	-0.406457263	0.0019	0.00745613
AT3G26450	151.844	382.452	1.33268879	0.00005	0.000282578
AT3G26470	8.4501	11.6975	0.469159909	0.00045	0.00210009
AT3G26500	5.80113	8.28575	0.514298342	0.00015	0.000779873
AT3G26510	41.3946	121.222	1.550137067	0.00005	0.000282578
AT3G26512	73.0387	195.282	1.418825983	0.0002	0.00101248
AT3G26520	2428.29	1482.07	-0.712327137	0.00005	0.000282578
AT3G26570	85.1691	70.6383	-0.269879481	0.0076	0.024527
AT3G26590	9.77862	24.3191	1.314387053	0.00005	0.000282578
AT3G26600	6.48565	10.3774	0.678121954	0.00005	0.000282578
AT3G26630	12.8667	22.3952	0.799547466	0.00005	0.000282578
AT3G26650	977.278	742.841	-0.39571557	0.00055	0.00251246
AT3G26700	10.6666	5.74669	-0.892297256	0.00005	0.000282578
AT3G26720	34.1694	27.6049	-0.30778054	0.00185	0.00728767
AT3G26730	51.991	41.9021	-0.311239355	0.0022	0.00846997
AT3G26744	25.2745	17.5557	-0.52574303	0.00005	0.000282578
AT3G26760	7.29467	3.44791	-1.081120598	0.00005	0.000282578
AT3G26780	39.7572	29.0649	-0.45193821	0.00005	0.000282578
AT3G26810	24.6013	32.0866	0.383236372	0.0002	0.00101248
AT3G26830	1.03205	7.03378	2.768787344	0.00005	0.000282578
AT3G26922	2.45352	1.31947	-0.894894482	0.00025	0.00123846
AT3G26932	13.4241	8.7002	-0.625704897	0.00005	0.000282578
AT3G26950	16.1922	13.4073	-0.272280282	0.01595	0.0457738
AT3G26980	9.44109	12.9796	0.459220586	0.0022	0.00846997
AT3G27020	27.2578	33.0232	0.276810801	0.007	0.0228553
AT3G27050	37.1448	17.3793	-1.095790283	0.00005	0.000282578
AT3G27080	26.1157	19.7519	-0.402925936	0.00155	0.00624225
AT3G27150	2.09247	9.245	2.143466381	0.00005	0.000282578
AT3G27160	309.745	134.981	-1.198324647	0.00005	0.000282578
AT3G27170	5.39956	9.54086	0.821277465	0.00005	0.000282578
AT3G27190	25.36	38.5399	0.603798083	0.00005	0.000282578
AT3G27200	12.4434	8.0738	-0.624060983	0.0002	0.00101248
AT3G27220	3.91933	6.41754	0.711413333	0.00005	0.000282578
AT3G27240	70.556	56.0375	-0.332376179	0.00705	0.0229904
AT3G27250	0.966835	0.24296	-1.992550887	0.00025	0.00123846
AT3G27280	16.8846	22.4408	0.410416106	0.0008	0.00349363
AT3G27290	0.956477	0.531076	-0.848811943	0.01355	0.0399444
AT3G27300	51.1621	37.2981	-0.455973342	0.00005	0.000282578
AT3G27325	10.1516	12.4087	0.28964485	0.0075	0.0242445
AT3G27330	1.48875	0.92501	-0.686560641	0.0016	0.00641937

AT3G27350	12.4588	8.88033	-0.488479924	0.0003	0.00145851
AT3G27360	42.843	27.9493	-0.616247355	0.0041	0.0144768
AT3G27400	3.89058	2.40547	-0.693666439	0.0009	0.00387377
AT3G27430	76.1126	60.8769	-0.322240408	0.001	0.00425239
AT3G27460	10.2311	15.0571	0.557482668	0.00005	0.000282578
AT3G27500	1.58265	0.802413	-0.979925357	0.0003	0.00145851
AT3G27550	2.99773	5.00857	0.740528309	0.00005	0.000282578
AT3G27570	25.6094	32.6353	0.349759849	0.0007	0.00310863
AT3G27620	0.106363	1.3575	3.673883918	0.00375	0.0134211
AT3G27630	0.736008	2.02027	1.456754763	0.01355	0.0399444
AT3G27640	1.4502	0.655736	-1.145064873	0.00075	0.0032996
AT3G27660	1.08384	2.92891	1.434212065	0.0005	0.00230701
AT3G27690	1080.23	8.25185	-7.032405208	0.00005	0.000282578
AT3G27770	141.855	69.6958	-1.025273378	0.00005	0.000282578
AT3G27820	87.0434	114.813	0.399479188	0.00005	0.000282578
AT3G27830	678.111	408.263	-0.732022622	0.00005	0.000282578
AT3G27850	443.684	340.862	-0.380344754	0.00025	0.00123846
AT3G27860	0.336443	0.776114	1.205906474	0.0026	0.00979559
AT3G27870	4.65687	0.753663	-2.627369136	0.00005	0.000282578
AT3G27890	64.9177	77.7729	0.260655648	0.0144	0.0420158
AT3G27925	143.954	74.2381	-0.955376184	0.00005	0.000282578
AT3G27940	3.83103	2.04704	-0.90419303	0.0076	0.024527
AT3G27960	12.2339	9.84259	-0.313774484	0.0069	0.0225733
AT3G27980	0.827106	1.74721	1.07890888	0.0013	0.00534838
AT3G28040	31.3523	22.1881	-0.49878515	0.00005	0.000282578
AT3G28050	48.1035	100.045	1.056435294	0.00005	0.000282578
AT3G28070	11.7097	17.1167	0.547700471	0.00015	0.000779873
AT3G28080	14.252	19.7285	0.46911688	0.00065	0.00291062
AT3G28100	8.58607	25.4365	1.566830333	0.00005	0.000282578
AT3G28130	15.6863	9.23492	-0.764333729	0.00005	0.000282578
AT3G28180	40.6635	19.3983	-1.067804171	0.00005	0.000282578
AT3G28200	58.3914	30.7201	-0.926572989	0.00005	0.000282578
AT3G28210	2.3498	5.29241	1.171386862	0.0001	0.000537698
AT3G28220	6.82618	1.02888	-2.730003729	0.00005	0.000282578
AT3G28270	0.498507	19.3219	5.276479394	0.00005	0.000282578
AT3G28345	14.5521	8.79811	-0.725961818	0.00005	0.000282578
AT3G28370	13.9076	8.01122	-0.795779612	0.00005	0.000282578
AT3G28450	12.763	15.4963	0.279956308	0.01415	0.0413977
AT3G28460	19.0668	10.3694	-0.878730316	0.00005	0.000282578
AT3G28480	12.699	18.7444	0.561744752	0.00005	0.000282578
AT3G28510	0.0680176	2.59603	5.254255144	0.00185	0.00728767
AT3G28540	3.21697	12.1268	1.914424517	0.00005	0.000282578
AT3G28550	82.0846	53.3105	-0.622691868	0.00005	0.000282578
AT3G28640	1.54775	3.38945	1.13087873	0.00005	0.000282578
AT3G28660	1.18062	1.98554	0.749986738	0.00145	0.00588787
AT3G28690	39.5152	48.0649	0.282576022	0.0126	0.0375592
AT3G28700	6.66171	8.51582	0.354252904	0.013	0.0385744

AT3G28710	133.541	96.3618	-0.470749501	0.00005	0.000282578
AT3G28715	73.1163	55.5641	-0.396040008	0.0002	0.00101248
AT3G28720	14.2787	17.6504	0.305836243	0.0056	0.0188774
AT3G28740	50.2615	130.111	1.372217305	0.00005	0.000282578
AT3G28760	10.6613	7.38389	-0.5299304	0.0002	0.00101248
AT3G28850	3.20012	4.58647	0.519258198	0.002	0.00779418
AT3G28860	60.1148	34.0233	-0.821197142	0.00005	0.000282578
AT3G28880	2.2052	1.42024	-0.634774762	0.0111	0.0337467
AT3G28890	0.0918425	0.489467	2.413977778	0.00185	0.00728767
AT3G28900	38.6783	29.438	-0.393844728	0.00025	0.00123846
AT3G28910	30.2887	15.6785	-0.949992119	0.00005	0.000282578
AT3G28940	178.366	264.653	0.569261372	0.00005	0.000282578
AT3G29000	1.09233	4.79076	2.132845772	0.00005	0.000282578
AT3G29030	23.6045	18.9846	-0.314232321	0.0077	0.0247988
AT3G29075	23.6672	17.9958	-0.395228797	0.00105	0.00443869
AT3G29130	17.58	13.1677	-0.416931698	0.01725	0.0488461
AT3G29160	26.0363	19.8654	-0.3902666	0.0003	0.00145851
AT3G29185	49.7086	35.4865	-0.486225182	0.00005	0.000282578
AT3G29200	13.1761	24.7187	0.907679462	0.00005	0.000282578
AT3G29230	5.64798	8.37433	0.56823879	0.00005	0.000282578
AT3G29240	77.4295	127.433	0.718783695	0.00005	0.000282578
AT3G29250	38.8342	77.0876	0.989171067	0.00005	0.000282578
AT3G29280	9.45658	4.17668	-1.178961909	0.01055	0.0323254
AT3G29320	155.259	79.0685	-0.97350194	0.00005	0.000282578
AT3G29375	10.4337	7.30811	-0.513680603	0.00065	0.00291062
AT3G29390	28.9705	38.0884	0.394767101	0.0002	0.00101248
AT3G29410	3.37955	6.47569	0.938202765	0.00005	0.000282578
AT3G29633	30.7271	42.0735	0.453400225	0.0002	0.00101248
AT3G29635	0.570364	0.151878	-1.908970019	0.0101	0.0311631
AT3G29760	16.0884	10.85	-0.568325814	0.00005	0.000282578
AT3G29780	7.30754	12.7045	0.797881871	0.00035	0.00167549
AT3G29810	9.07577	28.7468	1.663309415	0.00005	0.000282578
AT3G29970	0	2.69063	inf	0.00005	0.000282578
AT3G30180	10.1326	13.0286	0.362677653	0.004	0.0141788
AT3G30300	17.5444	14.6343	-0.261656871	0.01575	0.0452888
AT3G30460	0	0.771571	inf	0.00005	0.000282578
AT3G30725	0.824147	15.3419	4.218431664	0.00005	0.000282578
AT3G32040	2.56893	5.75299	1.163144383	0.00005	0.000282578
AT3G32930	80.9307	61.5218	-0.39558936	0.0019	0.00745613
AT3G33530	26.2098	21.0633	-0.315374863	0.005	0.0171523
AT3G42050	168.923	132.077	-0.354986518	0.0004	0.00188925
AT3G42170	23.9568	20.0227	-0.258798684	0.01395	0.0409307
AT3G42660	7.05305	5.45202	-0.371456413	0.0046	0.01597
AT3G42800	7.55894	2.92115	-1.371647496	0.00005	0.000282578
AT3G42860	1.96509	4.27895	1.122661432	0.00005	0.000282578
AT3G43110	9.38465	37.1553	1.985193172	0.00005	0.000282578
AT3G43190	2.03676	9.91839	2.283829963	0.00005	0.000282578

AT3G43210	3.84437	5.13252	0.41692015	0.0024	0.0091296
AT3G43270	8.65658	6.20248	-0.480951986	0.00025	0.00123846
AT3G43300	35.6466	28.7107	-0.312175972	0.0018	0.00711608
AT3G43540	42.7643	30.1683	-0.503373523	0.00005	0.000282578
AT3G43580	0.659167	1.24624	0.918866005	0.009	0.0282735
AT3G43610	13.4386	10.1512	-0.404732567	0.0001	0.000537698
AT3G43670	49.2098	37.915	-0.37617693	0.0004	0.00188925
AT3G43720	153.365	81.2796	-0.91600407	0.00005	0.000282578
AT3G43800	47.1537	65.9707	0.484454434	0.00005	0.000282578
AT3G43810	108.87	77.0926	-0.497942173	0.00005	0.000282578
AT3G43850	3.91571	0.355443	-3.461583794	0.0001	0.000537698
AT3G43890	0.539295	0.257514	-1.06642379	0.0133	0.0393076
AT3G43960	12.7049	10.1076	-0.329944543	0.0137	0.040313
AT3G44050	3.94056	2.19499	-0.844186301	0.00005	0.000282578
AT3G44110	139.139	186.829	0.425191554	0.00005	0.000282578
AT3G44120	0.202341	1.51381	2.903323557	0.0004	0.00188925
AT3G44190	30.7714	23.1926	-0.407925521	0.00035	0.00167549
AT3G44200	16.9898	13.1912	-0.365093057	0.00035	0.00167549
AT3G44260	7.48457	18.5118	1.306453844	0.00005	0.000282578
AT3G44300	6.81324	4.34094	-0.650333545	0.00025	0.00123846
AT3G44310	685.077	1109.16	0.695129438	0.00005	0.000282578
AT3G44320	14.3311	25.1732	0.812739273	0.00005	0.000282578
AT3G44326	3.85643	5.46499	0.502952932	0.00935	0.0291957
AT3G44400	2.04335	3.01155	0.559569871	0.00035	0.00167549
AT3G44405	0	1.03644	inf	0.00005	0.000282578
AT3G44430	17.1545	12.8508	-0.416728902	0.00185	0.00728767
AT3G44450	12.832	5.8675	-1.128928205	0.00005	0.000282578
AT3G44510	7.64871	25.0528	1.711683499	0.00005	0.000282578
AT3G44540	4.23346	7.84979	0.890816801	0.00005	0.000282578
AT3G44550	11.7574	6.1037	-0.945813102	0.00005	0.000282578
AT3G44620	39.5606	29.9832	-0.399909942	0.0004	0.00188925
AT3G44630	11.0417	18.4277	0.738913707	0.00005	0.000282578
AT3G44690	1.10826	1.89258	0.772057904	0.00005	0.000282578
AT3G44713	0.349816	0.890916	1.348693136	0.002	0.00779418
AT3G44720	13.8142	37.4297	1.438031469	0.00005	0.000282578
AT3G44730	3.79531	2.9052	-0.385580244	0.0057	0.0191634
AT3G44735	24.6733	17.2744	-0.514315084	0.00445	0.0155271
AT3G44750	20.1028	25.2806	0.330634244	0.00785	0.0252038
AT3G44820	8.48408	6.48915	-0.38672871	0.00165	0.00658915
AT3G44880	52.1235	61.6411	0.241958646	0.0147	0.0427366
AT3G44890	205.377	109.998	-0.900797332	0.00005	0.000282578
AT3G44960	1.88198	0.923274	-1.027420531	0.00625	0.0207474
AT3G44970	15.9767	19.7788	0.30798545	0.00745	0.0241032
AT3G44990	45.4712	31.5371	-0.527903075	0.00005	0.000282578
AT3G45010	34.9461	47.9631	0.456793448	0.00005	0.000282578
AT3G45050	33.0692	40.5336	0.29363017	0.01695	0.0481277
AT3G45060	0.350158	0.814341	1.217626991	0.004	0.0141788

AT3G45070	16.8943	36.2195	1.100230055	0.00005	0.000282578
AT3G45080	1.60603	3.05718	0.928702655	0.0015	0.00606399
AT3G45140	61.3597	75.8771	0.306373111	0.0028	0.0104493
AT3G45160	47.7376	72.3271	0.59941027	0.00005	0.000282578
AT3G45230	27.0278	20.4012	-0.405790071	0.00245	0.0092976
AT3G45260	30.8782	17.0264	-0.858815226	0.00005	0.000282578
AT3G45290	7.18299	13.1579	0.873272841	0.00005	0.000282578
AT3G45300	55.2409	36.2994	-0.605791123	0.00005	0.000282578
AT3G45310	29.9242	42.7418	0.514334988	0.00005	0.000282578
AT3G45330	0.683239	1.70558	1.319800193	0.00005	0.000282578
AT3G45390	0.378142	0.715814	0.920656663	0.01675	0.0476547
AT3G45410	4.54675	3.05027	-0.57589873	0.00015	0.000779873
AT3G45600	85.4909	56.5709	-0.595710738	0.00005	0.000282578
AT3G45610	3.06645	1.57593	-0.960365973	0.0009	0.00387377
AT3G45680	4.21512	5.80307	0.461242628	0.00285	0.010609
AT3G45700	5.7493	2.7053	-1.087597725	0.00005	0.000282578
AT3G45710	23.94	17.9356	-0.416597144	0.0001	0.000537698
AT3G45770	30.002	23.0967	-0.37737194	0.00065	0.00291062
AT3G45780	144.164	59.3591	-1.280169823	0.00005	0.000282578
AT3G45850	22.5629	14.6092	-0.62707533	0.00005	0.000282578
AT3G45860	0.102273	4.99647	5.610411962	0.00005	0.000282578
AT3G45930	41.4151	28.6739	-0.53041873	0.00005	0.000282578
AT3G45980	278.246	172.255	-0.691815088	0.00005	0.000282578
AT3G46000	147.737	102.91	-0.521648008	0.00005	0.000282578
AT3G46010	175.284	114.501	-0.614334114	0.00005	0.000282578
AT3G46020	8.9972	5.94333	-0.598204605	0.01345	0.0396954
AT3G46030	220.164	140.839	-0.644531698	0.00005	0.000282578
AT3G46060	112.895	92.3619	-0.289611836	0.00385	0.0137217
AT3G46080	0.803774	3.62081	2.171450658	0.00025	0.00123846
AT3G46100	29.9343	17.0841	-0.809145286	0.00005	0.000282578
AT3G46130	21.9773	16.0253	-0.455662791	0.01025	0.0315592
AT3G46270	1.93929	0.301875	-2.68350537	0.00005	0.000282578
AT3G46280	27.5713	41.0873	0.575525236	0.00005	0.000282578
AT3G46290	21.7712	15.3015	-0.508747843	0.00005	0.000282578
AT3G46320	36.8801	21.6312	-0.769728866	0.00005	0.000282578
AT3G46330	0.481302	0.230752	-1.060599266	0.0081	0.0258615
AT3G46370	5.00572	0.199504	-4.649088017	0.00005	0.000282578
AT3G46440	34.1805	28.0193	-0.286752588	0.00815	0.0259914
AT3G46450	13.5608	22.3086	0.718157688	0.00005	0.000282578
AT3G46460	35.8752	22.6985	-0.660389913	0.00035	0.00167549
AT3G46490	25.1602	12.8977	-0.964029572	0.00005	0.000282578
AT3G46500	1.19629	2.0067	0.746257787	0.0146	0.0424952
AT3G46530	20.558	42.9452	1.062796972	0.00005	0.000282578
AT3G46540	27.9914	36.8933	0.398375194	0.0006	0.00271108
AT3G46590	36.4677	60.4023	0.727984273	0.00005	0.000282578
AT3G46600	24.8119	40.9191	0.721742198	0.00005	0.000282578
AT3G46620	14.0377	20.3829	0.53805275	0.00005	0.000282578

AT3G46630	43.619	30.7169	-0.505924071	0.00005	0.000282578
AT3G46640	48.5175	76.3911	0.654899352	0.00005	0.000282578
AT3G46670	8.77236	6.39534	-0.455943958	0.0012	0.00498818
AT3G46690	5.07395	3.60073	-0.494819879	0.0035	0.0126552
AT3G46740	54.3415	44.079	-0.301962895	0.00295	0.0109262
AT3G46780	746.174	244.912	-1.607248628	0.00005	0.000282578
AT3G46790	7.07725	10.0363	0.503966713	0.0002	0.00101248
AT3G46810	0.666818	0.326499	-1.030214476	0.00645	0.0213006
AT3G46820	24.4091	16.9054	-0.529934949	0.00005	0.000282578
AT3G46830	39.2637	32.8988	-0.255161169	0.0174	0.049189
AT3G46870	5.20319	7.29777	0.488059293	0.00475	0.0164173
AT3G46890	0.761111	1.95571	1.361513682	0.00875	0.0275984
AT3G46900	35.2288	55.1591	0.646843584	0.00005	0.000282578
AT3G46920	3.80031	6.75105	0.828994797	0.00005	0.000282578
AT3G46930	4.8509	6.83063	0.493766208	0.00125	0.00516712
AT3G46940	21.841	13.169	-0.729893115	0.00005	0.000282578
AT3G46960	10.6989	8.86092	-0.271934073	0.0166	0.0473015
AT3G47000	28.2162	17.6249	-0.678908635	0.00005	0.000282578
AT3G47090	0.220781	1.0064	2.1885159	0.00005	0.000282578
AT3G47110	0.466709	1.09833	1.234716393	0.0073	0.0236941
AT3G47160	52.5388	39.7035	-0.404117058	0.00015	0.000779873
AT3G47220	1.73984	4.32258	1.312938026	0.00005	0.000282578
AT3G47290	24.5393	18.811	-0.383517551	0.00045	0.00210009
AT3G47295	37.2173	8.50396	-2.12976668	0.00005	0.000282578
AT3G47300	9.24131	6.50352	-0.506876594	0.0167	0.0475389
AT3G47340	57.5197	16.2135	-1.826860593	0.00005	0.000282578
AT3G47360	3.5474	9.39643	1.40535072	0.00005	0.000282578
AT3G47380	3.00363	1.55429	-0.950451399	0.0033	0.0120328
AT3G47420	50.8439	202.101	1.990929858	0.00005	0.000282578
AT3G47430	22.6745	48.8482	1.107234664	0.00005	0.000282578
AT3G47470	6796.66	731.135	-3.216616233	0.00005	0.000282578
AT3G47480	2.01592	12.1996	2.597323553	0.00005	0.000282578
AT3G47490	34.88	25.847	-0.4324032	0.0003	0.00145851
AT3G47500	33.6691	18.8508	-0.836799407	0.00005	0.000282578
AT3G47510	9.41053	17.2382	0.873261254	0.00005	0.000282578
AT3G47520	46.5364	38.333	-0.2797727	0.0049	0.016855
AT3G47530	1.50921	2.49014	0.722433291	0.0012	0.00498818
AT3G47540	3.89545	10.3607	1.411259577	0.00005	0.000282578
AT3G47550	45.2511	30.4275	-0.57257706	0.00005	0.000282578
AT3G47570	3.89363	6.9675	0.839525302	0.00005	0.000282578
AT3G47620	45.0085	34.9313	-0.36567715	0.00065	0.00291062
AT3G47640	6.15429	8.93585	0.538012541	0.00105	0.00443869
AT3G47650	167.889	126.285	-0.410824421	0.00005	0.000282578
AT3G47670	35.1874	25.9973	-0.43669712	0.00015	0.000779873
AT3G47680	17.5886	23.0397	0.389481278	0.0009	0.00387377
AT3G47710	0.808805	2.36756	1.549537167	0.00645	0.0213006
AT3G47740	0.880859	0.514605	-0.775445629	0.0057	0.0191634



AT3G47780	3.47977	4.9224	0.500369945	0.0005	0.00230701
AT3G47800	122.137	70.0586	-0.801866251	0.00005	0.000282578
AT3G47820	7.76518	11.6382	0.583776671	0.00005	0.000282578
AT3G47930	18.7348	15.0893	-0.312194696	0.00465	0.0161167
AT3G47960	24.9386	49.4087	0.98638462	0.00005	0.000282578
AT3G48020	3.53349	6.80875	0.946296136	0.00015	0.000779873
AT3G48030	7.14416	5.55263	-0.363593126	0.00925	0.0289277
AT3G48060	7.24559	8.67558	0.25985704	0.0164	0.0468459
AT3G48080	1.19441	2.20738	0.886036861	0.01355	0.0399444
AT3G48100	9.70055	4.82875	-1.006416775	0.00005	0.000282578
AT3G48210	8.54961	5.91791	-0.530770855	0.0009	0.00387377
AT3G48240	0.519743	1.73422	1.7384166	0.0004	0.00188925
AT3G48250	2.32957	3.33496	0.517605776	0.0029	0.0107667
AT3G48260	3.36551	1.46948	-1.19551942	0.00005	0.000282578
AT3G48280	1.16021	12.8872	3.473480979	0.00005	0.000282578
AT3G48300	0.248371	0.834526	1.748460265	0.00235	0.00897001
AT3G48340	21.6114	37.6068	0.799201017	0.00005	0.000282578
AT3G48350	16.578	21.6423	0.384583859	0.00205	0.00796423
AT3G48360	64.975	87.8626	0.435364463	0.00005	0.000282578
AT3G48380	16.4434	11.3365	-0.53653334	0.00005	0.000282578
AT3G48390	1.94156	2.81245	0.534611157	0.00495	0.0169989
AT3G48410	2.94777	1.8505	-0.671708827	0.0001	0.000537698
AT3G48520	0.885224	1.41172	0.673339503	0.01665	0.0474197
AT3G48530	102.928	61.4783	-0.743486322	0.00005	0.000282578
AT3G48540	3.57961	1.74786	-1.034212781	0.0062	0.0206032
AT3G48590	26.2023	20.8951	-0.326528792	0.0089	0.0279995
AT3G48640	0	1.05083	inf	0.00005	0.000282578
AT3G48670	14.7402	9.0063	-0.71074966	0.00005	0.000282578
AT3G48690	74.355	177.867	1.258297205	0.00005	0.000282578
AT3G48720	46.7717	6.10228	-2.938215583	0.00005	0.000282578
AT3G48730	116.616	68.1292	-0.775420572	0.00005	0.000282578
AT3G48800	5.98091	7.82152	0.387083994	0.0133	0.0393076
AT3G48830	1.53271	3.68896	1.267129391	0.00005	0.000282578
AT3G48835	0.0823823	1.60615	4.285128419	0.0079	0.0253358
AT3G48850	0.411803	5.30887	3.688378569	0.00005	0.000282578
AT3G48890	64.2168	76.0087	0.243213784	0.01655	0.0471864
AT3G48930	225.434	177.034	-0.348678658	0.00035	0.00167549
AT3G48940	4.25385	2.1703	-0.970874682	0.00145	0.00588787
AT3G48990	358.711	130.731	-1.456220701	0.00005	0.000282578
AT3G49000	7.82367	12.2404	0.64573328	0.00005	0.000282578
AT3G49010	356.982	267.648	-0.415514459	0.0001	0.000537698
AT3G49070	2.71186	1.54904	-0.807908303	0.00185	0.00728767
AT3G49080	14.892	11.0126	-0.435382402	0.0027	0.0101192
AT3G49110	46.3382	31.818	-0.54235885	0.00005	0.000282578
AT3G49120	102.355	305.448	1.577345215	0.00005	0.000282578
AT3G49140	56.9194	33.4173	-0.768325281	0.00005	0.000282578
AT3G49142	0.910826	2.50432	1.459171541	0.00005	0.000282578

AT3G49160	5.85331	8.24649	0.4945275	0.0001	0.000537698
AT3G49220	78.9023	49.8652	-0.662034019	0.00005	0.000282578
AT3G49260	40.3353	21.1808	-0.929285905	0.00005	0.000282578
AT3G49290	13.4665	9.54399	-0.4967105	0.00005	0.000282578
AT3G49320	1.9306	7.01045	1.86045777	0.00005	0.000282578
AT3G49340	0	0.851784	inf	0.00005	0.000282578
AT3G49350	10.5724	14.7165	0.477131684	0.00005	0.000282578
AT3G49360	16.8644	20.7582	0.299700358	0.01745	0.0493019
AT3G49380	0.74351	0.200575	-1.890210349	0.0069	0.0225733
AT3G49470	110.053	80.563	-0.450009161	0.00005	0.000282578
AT3G49490	29.888	35.6072	0.252602633	0.0119	0.0357876
AT3G49530	15.3612	24.5683	0.677507112	0.00005	0.000282578
AT3G49570	3.90582	58.1326	3.895650066	0.00005	0.000282578
AT3G49580	2.63121	86.4723	5.038439761	0.00005	0.000282578
AT3G49620	5.15005	0.287338	-4.163765734	0.00005	0.000282578
AT3G49640	10.1436	13.4649	0.408633755	0.00285	0.010609
AT3G49650	6.02561	2.9695	-1.020887267	0.00005	0.000282578
AT3G49670	34.9435	15.3281	-1.18884524	0.00005	0.000282578
AT3G49680	72.6076	54.8804	-0.40382957	0.00005	0.000282578
AT3G49690	1.27374	2.24826	0.819738066	0.0054	0.0183008
AT3G49720	112.566	80.5609	-0.482619428	0.00005	0.000282578
AT3G49725	3.93662	6.25211	0.667385705	0.00005	0.000282578
AT3G49740	0.815747	1.59482	0.967199921	0.00285	0.010609
AT3G49780	8.80775	31.313	1.82991631	0.00005	0.000282578
AT3G49830	0.394784	1.05544	1.41870914	0.00205	0.00796423
AT3G49845	9.15103	5.53554	-0.725210075	0.00005	0.000282578
AT3G49850	12.1486	15.2722	0.330117833	0.0101	0.0311631
AT3G49900	4.45945	2.95452	-0.593942023	0.00745	0.0241032
AT3G49910	232.731	166.656	-0.481790133	0.00005	0.000282578
AT3G49940	46.5836	29.7859	-0.645192584	0.00005	0.000282578
AT3G49960	19.0532	24.5799	0.367445726	0.00215	0.00830066
AT3G49970	1.51725	0.921803	-0.718928453	0.00585	0.0195962
AT3G50010	3.78225	1.76038	-1.10335784	0.00605	0.0201752
AT3G50080	7.71301	9.75287	0.338532845	0.0106	0.0324543
AT3G50110	4.43689	2.85806	-0.634512582	0.0007	0.00310863
AT3G50120	5.72406	2.75636	-1.054274468	0.00005	0.000282578
AT3G50140	5.13637	2.08802	-1.2986136	0.00005	0.000282578
AT3G50210	24.2069	29.9299	0.306169123	0.00755	0.0243868
AT3G50240	18.2882	7.0102	-1.383385576	0.00005	0.000282578
AT3G50260	7.94049	11.4352	0.526181656	0.0025	0.00945953
AT3G50270	24.2588	14.8151	-0.711439823	0.00005	0.000282578
AT3G50280	1.18364	1.88682	0.672726441	0.01215	0.0364357
AT3G50300	4.19679	5.62995	0.423835835	0.01155	0.0349062
AT3G50350	23.2651	57.6381	1.308855391	0.00005	0.000282578
AT3G50400	4.89639	6.56884	0.423920152	0.01315	0.0389337
AT3G50470	0.954931	2.23821	1.228877006	0.00065	0.00291062
AT3G50480	37.4041	94.123	1.331350887	0.00005	0.000282578

AT3G50500	132.076	104.426	-0.338887374	0.00105	0.00443869
AT3G50550	16.5765	11.3383	-0.547935078	0.00075	0.0032996
AT3G50560	6.29737	9.11027	0.532744377	0.00125	0.00516712
AT3G50570	4.64504	8.16898	0.814464931	0.00045	0.00210009
AT3G50640	8.2685	13.8517	0.74436551	0.00005	0.000282578
AT3G50650	6.9691	16.8948	1.277535011	0.00005	0.000282578
AT3G50660	11.0511	7.99825	-0.466433698	0.00035	0.00167549
AT3G50685	139.657	86.2081	-0.695992553	0.00005	0.000282578
AT3G50700	20.4384	8.83508	-1.209967157	0.00005	0.000282578
AT3G50740	128.575	159.113	0.307441559	0.0023	0.00880163
AT3G50750	16.04	9.87611	-0.699659331	0.00005	0.000282578
AT3G50760	2.94739	4.20307	0.512005513	0.00835	0.0265257
AT3G50770	1.34013	17.4926	3.706299877	0.00005	0.000282578
AT3G50790	30.7461	16.8452	-0.868065865	0.00005	0.000282578
AT3G50810	4.31561	11.2132	1.37756165	0.00005	0.000282578
AT3G50820	1175	551.954	-1.090040814	0.00005	0.000282578
AT3G50830	72.4592	44.3056	-0.709679818	0.00005	0.000282578
AT3G50840	12.7028	7.96509	-0.673383968	0.00005	0.000282578
AT3G50845	9.10433	6.14714	-0.566637509	0.01555	0.0447988
AT3G50890	5.12083	3.57671	-0.517744516	0.00855	0.0270622
AT3G50910	7.83753	15.8694	1.017776618	0.00005	0.000282578
AT3G50920	9.92102	14.5064	0.548129176	0.00015	0.000779873
AT3G50930	1.94872	6.71848	1.785608059	0.00005	0.000282578
AT3G50940	0.0728242	1.16014	3.993737155	0.00925	0.0289277
AT3G50950	28.054	43.5407	0.634158114	0.00005	0.000282578
AT3G50970	78.8308	13.9798	-2.495415694	0.00005	0.000282578
AT3G51000	20.8438	26.5954	0.351558419	0.00255	0.00962703
AT3G51010	41.0326	32.3216	-0.344271956	0.0034	0.0123479
AT3G51080	6.16211	4.05387	-0.604124611	0.001	0.00425239
AT3G51090	4.25127	6.26735	0.559961675	0.0014	0.00571151
AT3G51140	39.2589	27.3327	-0.52239177	0.00005	0.000282578
AT3G51150	14.1096	8.20186	-0.782654066	0.00005	0.000282578
AT3G51160	55.5605	40.0605	-0.471879155	0.00005	0.000282578
AT3G51220	2.10464	0.96342	-1.127336702	0.00955	0.0297233
AT3G51230	4.25723	1.4972	-1.507648082	0.00005	0.000282578
AT3G51240	9.15822	25.1406	1.456879954	0.00005	0.000282578
AT3G51270	31.4217	22.6754	-0.470633236	0.00005	0.000282578
AT3G51280	9.63436	4.56522	-1.077504447	0.00005	0.000282578
AT3G51290	6.05383	2.48714	-1.283360444	0.00565	0.0190219
AT3G51310	30.5551	24.6231	-0.311400797	0.00525	0.0178784
AT3G51320	2.68844	3.83889	0.513919947	0.00335	0.0121887
AT3G51350	4.66839	2.17171	-1.104093624	0.00005	0.000282578
AT3G51360	1.50737	0.739048	-1.028293612	0.0015	0.00606399
AT3G51420	41.0423	68.5163	0.739335664	0.00005	0.000282578
AT3G51430	12.9652	42.9733	1.728796107	0.00005	0.000282578
AT3G51440	5.10976	8.18405	0.679559428	0.00005	0.000282578
AT3G51450	5.16473	9.25216	0.841097285	0.00005	0.000282578

AT3G51470	5.65067	2.41957	-1.22367126	0.00005	0.000282578
AT3G51480	4.64877	2.92135	-0.670213835	0.00005	0.000282578
AT3G51500	23.1405	33.6947	0.542101644	0.00015	0.000779873
AT3G51510	92.0067	63.7392	-0.529558011	0.00005	0.000282578
AT3G51550	113.149	79.1521	-0.515524302	0.00005	0.000282578
AT3G51600	681.201	442.299	-0.623058572	0.00005	0.000282578
AT3G51642	10.4413	15.1618	0.538139693	0.01395	0.0409307
AT3G51710	2.02134	2.8832	0.512358905	0.01605	0.0460241
AT3G51720	15.3428	9.50909	-0.690182603	0.00005	0.000282578
AT3G51740	13.4457	7.17056	-0.906987167	0.00005	0.000282578
AT3G51780	12.1587	17.8929	0.557398247	0.00005	0.000282578
AT3G51790	8.88756	11.9908	0.432068616	0.0031	0.0114009
AT3G51800	80.3369	62.4891	-0.362458231	0.00025	0.00123846
AT3G51820	109.729	74.3068	-0.562378716	0.00005	0.000282578
AT3G51830	23.8851	19.217	-0.313727785	0.0064	0.0211702
AT3G51840	147.291	87.8024	-0.746336999	0.00005	0.000282578
AT3G51860	6.69076	47.6497	2.832225131	0.00005	0.000282578
AT3G51870	10.7174	17.5188	0.708949001	0.00325	0.0118728
AT3G51890	10.5173	19.1275	0.862883939	0.00005	0.000282578
AT3G51895	2.21953	6.60331	1.572935168	0.00005	0.000282578
AT3G51930	3.0537	1.84296	-0.728533578	0.0012	0.00498818
AT3G51980	15.0194	18.9745	0.337234689	0.01165	0.0351616
AT3G52110	10.9062	4.30184	-1.342122745	0.00005	0.000282578
AT3G52150	267.513	133.168	-1.006361555	0.00005	0.000282578
AT3G52155	27.3181	18.766	-0.541735976	0.00005	0.000282578
AT3G52180	48.1686	62.2604	0.370221852	0.0006	0.00271108
AT3G52190	24.8329	38.3451	0.626789482	0.00005	0.000282578
AT3G52200	37.3735	31.1685	-0.261926951	0.00995	0.030766
AT3G52250	12.4058	18.9248	0.609263282	0.00005	0.000282578
AT3G52300	222.507	170.018	-0.388163229	0.0001	0.000537698
AT3G52340	35.4382	23.4976	-0.592791917	0.00005	0.000282578
AT3G52360	25.2143	33.4059	0.405860754	0.00095	0.00406118
AT3G52370	14.9405	23.5833	0.658537178	0.00005	0.000282578
AT3G52400	26.9447	40.4981	0.5878527	0.00005	0.000282578
AT3G52430	5.57601	10.3018	0.885591383	0.00005	0.000282578
AT3G52460	4.46782	6.01089	0.428007555	0.01715	0.0486055
AT3G52470	44.1397	91.4003	1.050122076	0.00005	0.000282578
AT3G52500	93.982	57.567	-0.707142439	0.00005	0.000282578
AT3G52525	2.09191	3.58768	0.778230432	0.00165	0.00658915
AT3G52560	121.496	91.4231	-0.410278173	0.00015	0.000779873
AT3G52580	82.0336	67.9796	-0.271113069	0.00995	0.030766
AT3G52590	290.398	232.936	-0.318097894	0.0011	0.00462106
AT3G52610	15.6801	12.7331	-0.30035106	0.0146	0.0424952
AT3G52640	21.2606	16.0088	-0.409317143	0.0002	0.00101248
AT3G52680	2.74471	1.77951	-0.625173685	0.0052	0.0177382
AT3G52710	19.323	33.1888	0.780377369	0.00005	0.000282578
AT3G52720	22.7082	94.2225	2.052858258	0.00005	0.000282578

AT3G52780	0.589666	0.237329	-1.313009612	0.01285	0.0381931
AT3G52800	52.245	91.0656	0.801613206	0.00005	0.000282578
AT3G52840	91.6352	31.7296	-1.530072556	0.00005	0.000282578
AT3G52870	57.4442	36.5461	-0.652443777	0.00005	0.000282578
AT3G52910	7.51286	4.2465	-0.823087968	0.00005	0.000282578
AT3G52930	259.086	211.557	-0.292384638	0.00485	0.0167116
AT3G52940	18.3165	12.5366	-0.546997719	0.00005	0.000282578
AT3G52960	230.543	144.534	-0.673626951	0.00005	0.000282578
AT3G52990	100.984	77.4787	-0.382255077	0.00005	0.000282578
AT3G53010	1.76295	0.769196	-1.196568393	0.0022	0.00846997
AT3G53020	297.064	232.99	-0.350505746	0.00055	0.00251246
AT3G53230	4.81451	22.6958	2.236964463	0.00005	0.000282578
AT3G53240	8.02088	5.45371	-0.556522541	0.00005	0.000282578
AT3G53250	20.4895	7.91764	-1.371742402	0.00005	0.000282578
AT3G53260	62.4227	47.7933	-0.385262375	0.00015	0.000779873
AT3G53280	26.9787	42.1924	0.645162322	0.00005	0.000282578
AT3G53310	1.59703	4.43788	1.474479244	0.00005	0.000282578
AT3G53340	17.684	13.1792	-0.42418184	0.00225	0.00863481
AT3G53360	1.08055	2.20299	1.027697115	0.00005	0.000282578
AT3G53370	6.82647	20.4465	1.582642254	0.00005	0.000282578
AT3G53380	8.96544	4.28407	-1.065392335	0.00005	0.000282578
AT3G53400	8.77743	11.6628	0.410043701	0.00105	0.00443869
AT3G53420	792.561	539.319	-0.555383117	0.00005	0.000282578
AT3G53450	0.634287	1.54668	1.285967063	0.01215	0.0364357
AT3G53460	924.174	413.241	-1.161181103	0.00005	0.000282578
AT3G53470	49.016	38.0523	-0.365269099	0.00265	0.00995735
AT3G53480	15.555	12.0717	-0.365749537	0.0005	0.00230701
AT3G53510	8.62871	10.4762	0.279898711	0.01695	0.0481277
AT3G53520	35.7097	26.9226	-0.407498272	0.00015	0.000779873
AT3G53530	27.9007	14.5704	-0.937260834	0.00005	0.000282578
AT3G53540	14.4783	10.3805	-0.480016279	0.00005	0.000282578
AT3G53560	42.612	61.6328	0.532438569	0.00015	0.000779873
AT3G53580	69.7142	56.97	-0.291250141	0.00395	0.0140308
AT3G53610	45.7997	31.5494	-0.53772558	0.00005	0.000282578
AT3G53620	31.2976	82.5131	1.398571153	0.00005	0.000282578
AT3G53630	22.3474	37.7133	0.754966404	0.00005	0.000282578
AT3G53680	3.71084	2.31815	-0.678771876	0.00005	0.000282578
AT3G53690	0.447777	1.67474	1.903084806	0.00005	0.000282578
AT3G53700	8.01976	9.81945	0.292083156	0.01285	0.0381931
AT3G53720	13.2987	21.6251	0.701421581	0.00005	0.000282578
AT3G53730	50.1734	38.1369	-0.395735128	0.00025	0.00123846
AT3G53750	20.4434	13.0379	-0.64892364	0.00005	0.000282578
AT3G53760	4.47613	5.68479	0.344855119	0.01075	0.0328373
AT3G53780	10.8856	14.5181	0.415431729	0.00085	0.00368886
AT3G53800	50.9174	20.5486	-1.309118648	0.00005	0.000282578
AT3G53860	4.40931	2.55831	-0.785361819	0.00065	0.00291062
AT3G53870	201.727	157.932	-0.353100675	0.00035	0.00167549

AT3G53890	148.782	117.787	-0.337019677	0.0014	0.00571151
AT3G53900	33.5497	17.8501	-0.910367709	0.00005	0.000282578
AT3G53930	8.79378	12.4854	0.505686697	0.00005	0.000282578
AT3G53940	2.58781	5.30472	1.035544906	0.00005	0.000282578
AT3G53950	7.21365	12.0747	0.743186014	0.00005	0.000282578
AT3G53960	5.47744	14.2752	1.381937277	0.00005	0.000282578
AT3G53970	28.9111	46.6328	0.689721556	0.00005	0.000282578
AT3G53990	195.367	74.4528	-1.391788787	0.00005	0.000282578
AT3G54000	2.74534	4.37379	0.671899121	0.0001	0.000537698
AT3G54040	52.2366	70.1687	0.425766637	0.0042	0.0147771
AT3G54050	558.888	352.441	-0.665177434	0.00005	0.000282578
AT3G54150	2.52144	5.44862	1.111642982	0.00005	0.000282578
AT3G54210	398.618	242.806	-0.715202785	0.00005	0.000282578
AT3G54230	16.9333	20.4609	0.273006449	0.0072	0.0234061
AT3G54260	7.20988	19.027	1.400000956	0.00005	0.000282578
AT3G54290	12.8027	18.5585	0.535632012	0.00005	0.000282578
AT3G54360	104.594	85.3784	-0.292857063	0.00425	0.0149278
AT3G54390	2.74451	6.63332	1.273182529	0.00005	0.000282578
AT3G54400	153.571	55.542	-1.467254774	0.00005	0.000282578
AT3G54460	14.931	10.0277	-0.574320052	0.00005	0.000282578
AT3G54470	33.5969	27.5128	-0.28822515	0.0065	0.021442
AT3G54480	29.8017	37.3125	0.324264397	0.0039	0.0138733
AT3G54500	72.4621	8.31986	-3.12259546	0.00005	0.000282578
AT3G54560	30.4928	16.5987	-0.877398377	0.00005	0.000282578
AT3G54590	73.9913	58.3301	-0.343115099	0.0006	0.00271108
AT3G54600	29.5564	36.4485	0.302388885	0.0047	0.0162675
AT3G54630	4.23441	2.41562	-0.809767443	0.00015	0.000779873
AT3G54640	44.0643	61.4896	0.480732135	0.00005	0.000282578
AT3G54650	15.8358	12.3852	-0.354572586	0.00145	0.00588787
AT3G54660	136.389	57.161	-1.254624232	0.00005	0.000282578
AT3G54670	15.652	12.7035	-0.30112098	0.0029	0.0107667
AT3G54680	12.8318	17.1752	0.420603338	0.00105	0.00443869
AT3G54690	31.8983	22.1812	-0.524142121	0.00005	0.000282578
AT3G54710	4.38624	2.09398	-1.066737091	0.00005	0.000282578
AT3G54720	12.1096	7.64855	-0.662893036	0.00005	0.000282578
AT3G54750	11.6092	6.95129	-0.739915919	0.00005	0.000282578
AT3G54770	8.60516	11.365	0.401323762	0.00865	0.0273357
AT3G54780	1.8427	3.41621	0.89057545	0.0161	0.0461351
AT3G54820	5.65171	3.67313	-0.621677483	0.00035	0.00167549
AT3G54830	35.2519	12.7638	-1.46564311	0.00005	0.000282578
AT3G54850	7.98446	12.4098	0.63621312	0.00005	0.000282578
AT3G54860	20.3903	16.7901	-0.280272179	0.01045	0.0320751
AT3G54880	37.4708	26.9072	-0.47777451	0.00045	0.00210009
AT3G54890	6890.89	1114.87	-2.627814834	0.00005	0.000282578
AT3G54900	124.351	46.2945	-1.425505399	0.00005	0.000282578
AT3G54920	53.8283	32.6616	-0.720769397	0.00005	0.000282578
AT3G54930	3.58259	2.339	-0.615111086	0.0011	0.00462106

AT3G54960	27.1294	37.5979	0.470794943	0.00005	0.000282578
AT3G54970	6.80917	10.5216	0.627803252	0.00005	0.000282578
AT3G55005	23.0506	12.6497	-0.865701134	0.00005	0.000282578
AT3G55020	31.7186	25.1026	-0.337492296	0.00006	0.002711108
AT3G55040	58.8938	46.5447	-0.339498865	0.00595	0.0198839
AT3G55050	17.1565	11.6278	-0.561177105	0.00005	0.000282578
AT3G55060	2.80136	2.0212	-0.47091531	0.00525	0.0178784
AT3G55070	23.8814	19.3741	-0.301758121	0.015	0.0434809
AT3G55090	0.673702	2.44627	1.860401159	0.00005	0.000282578
AT3G55110	1.98817	2.713	0.448447927	0.01305	0.0386862
AT3G55120	17.7336	26.2621	0.566496844	0.00005	0.000282578
AT3G55130	18.8836	23.1156	0.291732982	0.0069	0.0225733
AT3G55160	2.58368	4.01609	0.636364203	0.00005	0.000282578
AT3G55200	2.9242	3.7877	0.373280081	0.00465	0.0161167
AT3G55240	25.3276	2.68489	-3.237775489	0.00005	0.000282578
AT3G55250	52.4754	36.8103	-0.511531751	0.00005	0.000282578
AT3G55260	29.3254	20.9181	-0.48739897	0.00005	0.000282578
AT3G55290	11.7122	17.4294	0.573510811	0.00005	0.000282578
AT3G55320	7.47696	9.13411	0.288812349	0.00645	0.0213006
AT3G55330	128.68	85.3535	-0.592265622	0.00005	0.000282578
AT3G55340	5.76655	7.46858	0.373125525	0.00735	0.0238331
AT3G55360	85.121	50.7212	-0.746926221	0.00005	0.000282578
AT3G55370	5.66579	8.6802	0.615451154	0.00005	0.000282578
AT3G55400	34.3308	22.4476	-0.61294227	0.00005	0.000282578
AT3G55410	46.7292	36.3102	-0.363949462	0.00025	0.00123846
AT3G55420	15.245	20.3913	0.419617604	0.00175	0.00694124
AT3G55460	53.6671	39.7644	-0.432560529	0.00005	0.000282578
AT3G55520	39.4481	29.5595	-0.416333949	0.00425	0.0149278
AT3G55530	13.5735	19.3134	0.508809388	0.0119	0.0357876
AT3G55580	3.48939	0.24167	-3.851864554	0.00005	0.000282578
AT3G55600	9.476	6.21304	-0.608978856	0.00005	0.00230701
AT3G55610	60.4024	48.1922	-0.325806212	0.00255	0.00962703
AT3G55620	58.6774	47.9377	-0.291644255	0.00475	0.0164173
AT3G55630	19.7164	44.783	1.183555022	0.00005	0.000282578
AT3G55640	6.13394	9.67615	0.657619079	0.00005	0.000282578
AT3G55660	5.78971	2.1946	-1.399533077	0.00005	0.000282578
AT3G55700	0.33587	0.752355	1.163510621	0.01285	0.0381931
AT3G55750	103.704	78.6762	-0.398472359	0.0001	0.000537698
AT3G55790	0	2.22124	inf	0.00005	0.000282578
AT3G55800	482.046	353.777	-0.446330567	0.00005	0.000282578
AT3G55880	16.9457	22.7659	0.425955261	0.00025	0.00123846
AT3G55980	16.0134	28.3761	0.825396663	0.00005	0.000282578
AT3G55990	7.43683	5.72202	-0.378163253	0.00795	0.0254668
AT3G56010	74.2788	51.7036	-0.522685773	0.00005	0.000282578
AT3G56020	42.8788	27.4129	-0.645409573	0.00015	0.000779873
AT3G56040	55.6729	100.252	0.848583878	0.00005	0.000282578
AT3G56070	25.7705	32.8273	0.349175566	0.0028	0.0104493

AT3G56080	5.55014	8.15108	0.554467063	0.0001	0.000537698
AT3G56090	47.1837	59.1577	0.326277408	0.00145	0.00588787
AT3G56100	3.30084	1.48593	-1.151467055	0.00005	0.000282578
AT3G56120	48.7614	38.0868	-0.356448468	0.00055	0.00251246
AT3G56130	138.623	79.4078	-0.803814015	0.00005	0.000282578
AT3G56140	40.5883	30.4029	-0.416854973	0.00005	0.000282578
AT3G56160	29.2036	23.7887	-0.295869791	0.00585	0.0195962
AT3G56170	30.8114	21.4337	-0.523583319	0.00005	0.000282578
AT3G56200	13.8191	38.5921	1.481641891	0.00005	0.000282578
AT3G56220	3.47165	1.47047	-1.239344156	0.00335	0.0121887
AT3G56240	429.2	553.564	0.367100047	0.00025	0.00123846
AT3G56260	4.37151	6.92636	0.663965675	0.00285	0.010609
AT3G56270	3.10672	5.06471	0.705087443	0.0001	0.000537698
AT3G56290	20.965	28.0707	0.421082211	0.00065	0.00291062
AT3G56310	69.2288	85.6924	0.307794917	0.00305	0.0112447
AT3G56340	203.654	167.714	-0.280117027	0.0055	0.0185914
AT3G56360	56.1078	90.2235	0.685301907	0.00005	0.000282578
AT3G56400	3.01737	35.9457	3.574455678	0.00005	0.000282578
AT3G56490	34.4056	44.4381	0.369153731	0.00095	0.00406118
AT3G56510	14.4725	18.2948	0.338119488	0.0061	0.0203154
AT3G56570	1.37766	2.30784	0.744323325	0.002	0.00779418
AT3G56590	25.7462	33.4952	0.379594852	0.00015	0.000779873
AT3G56620	2.21249	5.33361	1.269441403	0.00005	0.000282578
AT3G56630	14.4089	21.5208	0.578771507	0.00005	0.000282578
AT3G56650	59.834	23.514	-1.347445534	0.00005	0.000282578
AT3G56680	51.3732	32.0696	-0.679809582	0.00005	0.000282578
AT3G56710	1.87126	12.8635	2.781201304	0.00005	0.000282578
AT3G56720	34.8402	25.2553	-0.464166727	0.00005	0.000282578
AT3G56820	8.38461	11.3342	0.43486698	0.0078	0.0250675
AT3G56870	1.97276	1.39016	-0.504964514	0.01345	0.0396954
AT3G56880	32.7124	40.3765	0.303678248	0.0043	0.0150809
AT3G56910	519.436	313.93	-0.726503101	0.00005	0.000282578
AT3G56940	1379.22	225.593	-2.612058392	0.00005	0.000282578
AT3G56960	1.56296	3.50397	1.164709566	0.00005	0.000282578
AT3G56990	8.71845	12.5915	0.530306584	0.00005	0.000282578
AT3G57010	11.453	8.80804	-0.378832622	0.0051	0.0174432
AT3G57020	60.4928	43.2126	-0.485311402	0.00005	0.000282578
AT3G57030	16.7822	8.56041	-0.971180052	0.00005	0.000282578
AT3G57040	19.0519	6.33484	-1.588554795	0.00005	0.000282578
AT3G57050	49.2034	39.986	-0.299263042	0.0033	0.0120328
AT3G57060	3.66985	2.28603	-0.68287676	0.00005	0.000282578
AT3G57130	2.79836	1.73162	-0.692459204	0.0127	0.0378086
AT3G57170	14.3751	10.4561	-0.459227148	0.00005	0.000282578
AT3G57180	8.88593	11.6406	0.389570741	0.01615	0.0462589
AT3G57190	8.27058	15.8319	0.936773993	0.00005	0.000282578
AT3G57220	12.9511	10.2212	-0.341510055	0.00755	0.0243868
AT3G57260	1.09729	18.6013	4.083386684	0.00005	0.000282578



AT3G57290	62.7342	48.7993	-0.3623917	0.0166	0.0473015
AT3G57330	22.3431	30.5061	0.449268386	0.00005	0.000282578
AT3G57360	0.752826	2.97467	1.98234127	0.00005	0.000282578
AT3G57380	1.90092	4.55851	1.261864523	0.00005	0.000282578
AT3G57400	28.5587	38.7621	0.440716424	0.00005	0.000282578
AT3G57450	7.61844	14.3488	0.913362571	0.00005	0.000282578
AT3G57480	5.1089	8.05081	0.656121244	0.00005	0.000282578
AT3G57490	12.0338	18.1193	0.590434936	0.00005	0.000282578
AT3G57520	79.1141	102.197	0.369346101	0.0001	0.000537698
AT3G57540	6.13743	13.2465	1.10990465	0.00005	0.000282578
AT3G57550	29.6031	24.4296	-0.277118019	0.01055	0.0323254
AT3G57560	28.2648	19.7731	-0.515467416	0.00005	0.000282578
AT3G57570	6.28383	10.0372	0.675640812	0.00005	0.000282578
AT3G57600	2.28771	1.30337	-0.811657488	0.00885	0.0278636
AT3G57610	49.8132	41.8548	-0.251135009	0.0123	0.0368055
AT3G57630	6.19489	11.455	0.886826888	0.00005	0.000282578
AT3G57640	0.858196	2.0282	1.240820841	0.0003	0.00145851
AT3G57660	6.23376	8.04452	0.367903729	0.00075	0.0032996
AT3G57670	1.46304	2.87176	0.972965971	0.00005	0.000282578
AT3G57680	3.07821	1.72361	-0.836658284	0.0038	0.0135703
AT3G57710	4.73641	7.04048	0.57187982	0.00005	0.000282578
AT3G57770	5.03617	9.64316	0.937179002	0.00005	0.000282578
AT3G57780	10.876	6.53974	-0.733842872	0.00005	0.000282578
AT3G57810	11.081	18.0995	0.707861761	0.00005	0.000282578
AT3G57860	4.18462	2.88841	-0.534821077	0.0092	0.0288044
AT3G57870	108.536	90.7986	-0.257431687	0.01155	0.0349062
AT3G57880	7.82575	13.4018	0.776125855	0.00005	0.000282578
AT3G57890	43.9694	32.9005	-0.418390337	0.00005	0.000282578
AT3G57910	1.41475	2.33635	0.723709278	0.00045	0.00210009
AT3G57950	0.648181	2.02973	1.646819192	0.00235	0.00897001
AT3G57980	9.07513	6.9784	-0.379022015	0.00355	0.0128096
AT3G57990	27.978	33.7165	0.269161947	0.00945	0.0294592
AT3G58010	26.9938	16.8164	-0.682759193	0.00005	0.000282578
AT3G58030	25.4659	31.3588	0.300303648	0.0039	0.0138733
AT3G58040	18.136	22.5749	0.315863301	0.0045	0.0156801
AT3G58120	57.1141	25.0348	-1.189912024	0.00005	0.000282578
AT3G58140	80.5081	44.1555	-0.866540791	0.00005	0.000282578
AT3G58200	0.667375	2.95976	2.148910647	0.00005	0.000282578
AT3G58270	1.59486	3.24325	1.024010449	0.0001	0.000537698
AT3G58610	254.135	171.363	-0.568539438	0.00005	0.000282578
AT3G58640	19.2633	23.7889	0.30443369	0.00395	0.0140308
AT3G58650	3.94942	1.89429	-1.059983587	0.00005	0.000282578
AT3G58690	7.01695	4.90836	-0.515603016	0.00145	0.00588787
AT3G58700	40.3077	33.2091	-0.279476839	0.01305	0.0386862
AT3G58750	33.3488	22.1584	-0.589781137	0.00005	0.000282578
AT3G58850	8.32929	5.67666	-0.553151189	0.003	0.0110887
AT3G58900	6.8485	16.2376	1.245478471	0.00005	0.000282578

AT3G58930	2.28364	5.58397	1.289955953	0.00005	0.000282578
AT3G59000	2.73624	4.19277	0.615708915	0.00055	0.00251246
AT3G59040	25.3709	17.269	-0.554990155	0.00005	0.000282578
AT3G59060	94.7388	40.4224	-1.228800417	0.00005	0.000282578
AT3G59100	4.82899	6.16156	0.351574187	0.0015	0.00606399
AT3G59110	25.1996	13.9	-0.858315951	0.00005	0.000282578
AT3G59140	3.28488	11.409	1.796259771	0.00005	0.000282578
AT3G59150	3.35341	5.22508	0.639824243	0.001	0.00425239
AT3G59210	16.3882	20.4061	0.316343077	0.00525	0.0178784
AT3G59250	0.854959	4.75953	2.476891974	0.00005	0.000282578
AT3G59280	24.8706	31.4329	0.337834069	0.0061	0.0203154
AT3G59300	39.5859	49.0268	0.308583947	0.01225	0.0366818
AT3G59310	15.3404	10.0263	-0.613546794	0.0101	0.0311631
AT3G59320	14.195	10.2255	-0.47321146	0.00025	0.00123846
AT3G59340	4.80528	2.51274	-0.935359099	0.00005	0.000282578
AT3G59350	59.8641	36.6079	-0.709536074	0.00005	0.000282578
AT3G59390	4.25761	6.95904	0.708844496	0.0005	0.00230701
AT3G59410	42.2142	17.0447	-1.308405167	0.00005	0.000282578
AT3G59480	3.15404	1.06726	-1.563289276	0.00165	0.00658915
AT3G59580	0.727963	1.56328	1.102639174	0.00005	0.000282578
AT3G59660	24.5226	30.48	0.313750954	0.00475	0.0164173
AT3G59670	6.07943	10.8577	0.836710558	0.00005	0.000282578
AT3G59690	10.4026	12.6982	0.287679849	0.01585	0.0455283
AT3G59700	3.56375	5.64268	0.662984402	0.00005	0.000282578
AT3G59750	0.472074	1.82589	1.951514921	0.00005	0.000282578
AT3G59780	104.953	75.4943	-0.475303779	0.00005	0.000282578
AT3G59820	14.2451	18.1578	0.350123667	0.00105	0.00443869
AT3G59870	23.2648	15.2365	-0.610617248	0.00005	0.000282578
AT3G59880	3.39665	8.12231	1.257777524	0.00005	0.000282578
AT3G59900	9.61683	6.35467	-0.597744209	0.0015	0.00606399
AT3G59910	18.4532	23.0003	0.317781661	0.0019	0.00745613
AT3G59930	17.1268	11.057	-0.631295616	0.00045	0.00210009
AT3G59970	187.399	121.317	-0.627331527	0.00005	0.000282578
AT3G59990	59.0358	49.4895	-0.25446762	0.0141	0.0412869
AT3G60030	35.4645	25.5547	-0.472786953	0.00005	0.000282578
AT3G60040	1.5109	2.21344	0.550882089	0.0126	0.0375592
AT3G60080	10.4337	14.4012	0.464938174	0.00025	0.00123846
AT3G60130	54.3528	36.0176	-0.593652306	0.00005	0.000282578
AT3G60140	0.193474	1.17049	2.596901001	0.00005	0.000282578
AT3G60160	0.34574	0.777357	1.168889782	0.0146	0.0424952
AT3G60200	11.0883	8.29002	-0.419590709	0.0017	0.00676327
AT3G60245	461.564	292.7	-0.657107959	0.00005	0.000282578
AT3G60250	34.664	22.4825	-0.624635673	0.00005	0.000282578
AT3G60260	11.7262	8.95274	-0.389334374	0.0068	0.0222907
AT3G60280	7.89553	5.5891	-0.498420125	0.00675	0.0221564
AT3G60290	3.64757	1.53516	-1.248546639	0.00005	0.000282578
AT3G60300	56.9203	75.2456	0.402663957	0.0001	0.000537698

AT3G60320	63.3709	33.2427	-0.930782941	0.00005	0.000282578
AT3G60370	22.9078	13.7185	-0.739716169	0.00005	0.000282578
AT3G60380	17.5265	11.3723	-0.624013859	0.00005	0.000282578
AT3G60390	19.6907	10.6747	-0.883318874	0.00005	0.000282578
AT3G60440	17.7539	10.8706	-0.707704405	0.00005	0.000282578
AT3G60510	9.6893	6.041	-0.681605056	0.00165	0.00658915
AT3G60520	22.3844	12.6705	-0.821020191	0.00005	0.000282578
AT3G60530	55.3137	38.0283	-0.540563402	0.00005	0.000282578
AT3G60540	2.26875	5.2296	1.204802959	0.0032	0.0117121
AT3G60600	90.7546	69.6224	-0.382419223	0.0007	0.00310863
AT3G60620	13.08	10.6514	-0.296319473	0.0147	0.0427366
AT3G60630	16.5719	11.4375	-0.534967276	0.00005	0.000282578
AT3G60690	12.855	27.0911	1.075489363	0.00005	0.000282578
AT3G60770	218.872	182.072	-0.26557833	0.0078	0.0250675
AT3G60820	167.802	113.759	-0.560779223	0.00005	0.000282578
AT3G60840	5.72446	3.852	-0.571531904	0.0002	0.00101248
AT3G60880	13.1618	17.2593	0.391017148	0.0017	0.00676327
AT3G60900	3.41928	2.19936	-0.636608798	0.00135	0.00552942
AT3G60910	13.5418	27.7529	1.035219014	0.00005	0.000282578
AT3G60960	4.91777	7.53906	0.616380391	0.0001	0.000537698
AT3G60966	0.136222	0.894646	2.71535722	0.0122	0.0365526
AT3G60980	20.3594	10.937	-0.896477982	0.00005	0.000282578
AT3G61050	76.7029	49.5539	-0.630282519	0.00005	0.000282578
AT3G61060	37.1247	48.269	0.378717571	0.01475	0.0428657
AT3G61080	37.9525	28.3031	-0.423234844	0.0001	0.000537698
AT3G61100	8.4768	13.5639	0.678180399	0.00025	0.00123846
AT3G61110	179.842	146.247	-0.298322954	0.0037	0.0132727
AT3G61130	50.229	37.3645	-0.426852336	0.00005	0.000282578
AT3G61160	11.8556	6.6492	-0.834316	0.00005	0.000282578
AT3G61180	30.9156	24.8713	-0.313853087	0.00375	0.0134211
AT3G61190	0.930943	3.82782	2.039758248	0.00005	0.000282578
AT3G61200	31.3199	54.2374	0.792208415	0.00005	0.000282578
AT3G61210	22.1408	10.0305	-1.142313828	0.00005	0.000282578
AT3G61220	34.7466	64.4471	0.891243626	0.00005	0.000282578
AT3G61240	35.2874	29.7361	-0.24693769	0.0159	0.0456527
AT3G61260	295.434	142.065	-1.056284701	0.00005	0.000282578
AT3G61280	1.50723	10.0976	2.744040943	0.00005	0.000282578
AT3G61310	6.88356	3.65467	-0.913413739	0.00005	0.000282578
AT3G61410	6.51102	11.7274	0.848927724	0.00005	0.000282578
AT3G61420	12.8071	7.99607	-0.679580826	0.00005	0.000282578
AT3G61430	345.083	163.768	-1.075289919	0.00005	0.000282578
AT3G61460	60.1244	46.6806	-0.365127487	0.00085	0.00368886
AT3G61470	4224.25	1013.34	-2.059576905	0.00005	0.000282578
AT3G61520	2.73238	3.79166	0.472671466	0.0035	0.0126552
AT3G61550	31.9252	18.5402	-0.784038851	0.00005	0.000282578
AT3G61580	199.941	65.8453	-1.602421972	0.00005	0.000282578
AT3G61590	6.41834	4.14705	-0.630114774	0.00005	0.000282578

AT3G61600	48.061	28.3421	-0.761920008	0.00005	0.000282578
AT3G61610	12.2887	4.02729	-1.609451036	0.00005	0.000282578
AT3G61640	22.936	10.8286	-1.082767077	0.00005	0.000282578
AT3G61650	9.95902	6.41044	-0.635580399	0.00005	0.000282578
AT3G61700	19.7805	16.2113	-0.287079108	0.01055	0.0323254
AT3G61750	12.4223	8.02405	-0.630529814	0.00005	0.000282578
AT3G61780	7.32296	9.86172	0.429412376	0.00005	0.000282578
AT3G61820	43.1713	36.0911	-0.258429422	0.01095	0.033356
AT3G61870	195.823	147.158	-0.41218425	0.00005	0.000282578
AT3G61970	1.33191	1.99275	0.581264129	0.01475	0.0428657
AT3G62000	11.3766	7.72158	-0.559101471	0.00025	0.00123846
AT3G62030	610.373	325.891	-0.905301635	0.00005	0.000282578
AT3G62050	1.16712	2.16756	0.893119027	0.01085	0.033099
AT3G62060	5.32586	3.15881	-0.753633342	0.0001	0.000537698
AT3G62110	37.0029	21.6422	-0.773791181	0.00005	0.000282578
AT3G62120	86.0011	64.8243	-0.40782039	0.00005	0.000282578
AT3G62150	23.9653	14.2124	-0.753796802	0.00005	0.000282578
AT3G62160	3.52081	1.17717	-1.580584693	0.00005	0.000282578
AT3G62200	7.88113	10.1791	0.369135605	0.00215	0.00830066
AT3G62220	11.9382	8.54262	-0.482834815	0.00045	0.00210009
AT3G62250	273.107	206.859	-0.400818565	0.00025	0.00123846
AT3G62260	4.6216	12.8083	1.4706147	0.00005	0.000282578
AT3G62270	23.5018	18.9979	-0.306931303	0.00345	0.0125039
AT3G62290	613.364	1114.3	0.861322299	0.00005	0.000282578
AT3G62360	33.1385	27.4236	-0.273090329	0.01105	0.0336205
AT3G62390	9.87384	6.64529	-0.571279107	0.00005	0.000282578
AT3G62410	311.733	743.649	1.254310948	0.00005	0.000282578
AT3G62420	55.7141	96.511	0.792650897	0.00005	0.000282578
AT3G62430	0.196108	0.489654	1.32011428	0.0143	0.0417688
AT3G62460	3.82445	12.2072	1.674408132	0.00005	0.000282578
AT3G62500	2.30389	1.50996	-0.609561505	0.0158	0.0454124
AT3G62530	284.27	184.177	-0.626168945	0.00005	0.000282578
AT3G62550	261.903	109.032	-1.264280969	0.00005	0.000282578
AT3G62560	33.1525	47.5092	0.519089247	0.00005	0.000282578
AT3G62570	4.93496	2.21804	-1.153753008	0.00005	0.000282578
AT3G62600	36.4032	75.7708	1.057576705	0.00005	0.000282578
AT3G62660	50.9459	33.5739	-0.601625914	0.00005	0.000282578
AT3G62700	39.6225	31.7338	-0.320299622	0.002	0.00779418
AT3G62720	17.9372	11.0639	-0.697094681	0.00005	0.000282578
AT3G62740	4.9847	2.04844	-1.282981044	0.00005	0.000282578
AT3G62750	108.006	75.2475	-0.521395904	0.00005	0.000282578
AT3G62820	14.6687	11.3456	-0.370608113	0.0083	0.0263922
AT3G62830	59.4466	74.4702	0.325068934	0.0094	0.0293309
AT3G62910	31.2902	23.2885	-0.426093161	0.00005	0.000282578
AT3G62940	28.3446	22.7398	-0.317854344	0.0046	0.01597
AT3G62950	11.4781	0.961007	-3.578193099	0.00005	0.000282578
AT3G63010	5.93859	13.5386	1.188886223	0.00005	0.000282578

AT3G63030	11.474	17.4795	0.607295494	0.0001	0.000537698
AT3G63050	1.07846	2.79947	1.376181052	0.00225	0.00863481
AT3G63110	11.1111	3.10045	-1.841452122	0.00005	0.000282578
AT3G63140	473.952	268.309	-0.820845508	0.00005	0.000282578
AT3G63160	1042.97	613.951	-0.764502238	0.00005	0.000282578
AT3G63170	44.7177	29.8467	-0.583274558	0.00005	0.000282578
AT3G63180	9.13056	13.5351	0.567930294	0.00005	0.000282578
AT3G63190	149.889	76.4401	-0.97149294	0.00005	0.000282578
AT3G63200	48.5781	32.7777	-0.567591439	0.00005	0.000282578
AT3G63220	6.96731	8.99089	0.367862179	0.0127	0.0378086
AT3G63240	5.42085	4.15998	-0.381942494	0.0051	0.0174432
AT3G63260	33.1481	50.6105	0.610510548	0.00005	0.000282578
AT3G63280	4.41198	5.85654	0.408622332	0.00725	0.0235462
AT3G63310	55.88	75.4282	0.432771977	0.00015	0.000779873
AT3G63380	2.07214	7.81185	1.914542768	0.00005	0.000282578
AT3G63390	17.1815	27.7158	0.689852657	0.00005	0.000282578
AT3G63410	354.473	241.734	-0.552255339	0.00005	0.000282578
AT3G63430	2.44012	1.74629	-0.482658936	0.0146	0.0424952
AT3G63490	426.109	238.612	-0.836555924	0.00005	0.000282578
AT4G00020	3.45493	2.12169	-0.703442601	0.0001	0.000537698
AT4G00026	9.34648	12.9554	0.471058524	0.00025	0.00123846
AT4G00030	68.6492	47.3271	-0.536576385	0.00005	0.000282578
AT4G00050	7.746	27.3124	1.818032686	0.00005	0.000282578
AT4G00100	196.966	157.239	-0.324987521	0.0036	0.0129656
AT4G00130	1.11648	0.234751	-2.249754199	0.01015	0.0312969
AT4G00150	9.24718	14.815	0.67997325	0.00005	0.000282578
AT4G00165	75.8675	117.821	0.635042799	0.00005	0.000282578
AT4G00180	28.9764	21.0721	-0.45954427	0.00005	0.000282578
AT4G00200	2.20515	3.33143	0.595264785	0.00465	0.0161167
AT4G00230	11.0683	8.93835	-0.30835321	0.0073	0.0236941
AT4G00238	9.63638	12.1625	0.335876614	0.0145	0.0422563
AT4G00270	14.7123	33.9176	1.205011286	0.00005	0.000282578
AT4G00300	50.1175	34.2085	-0.550959606	0.00005	0.000282578
AT4G00310	3.97729	2.65079	-0.585363377	0.00665	0.0218627
AT4G00335	10.5477	15.4172	0.54761233	0.00015	0.000779873
AT4G00340	17.3733	21.0326	0.275755388	0.0086	0.0272015
AT4G00360	141.241	77.9509	-0.857521356	0.00005	0.000282578
AT4G00380	3.589	7.71094	1.103324819	0.00005	0.000282578
AT4G00400	53.2177	25.328	-1.071173	0.00005	0.000282578
AT4G00440	15.3025	22.4293	0.551617228	0.00005	0.000282578
AT4G00450	11.6798	13.8833	0.249334961	0.0155	0.0446831
AT4G00500	11.4651	25.9059	1.176031767	0.00005	0.000282578
AT4G00550	11.8067	21.0342	0.833131164	0.00005	0.000282578
AT4G00630	22.5141	37.8909	0.751022601	0.00005	0.000282578
AT4G00700	4.11794	5.33862	0.374544053	0.00565	0.0190219
AT4G00710	35.9555	28.0723	-0.357065202	0.0006	0.00271108
AT4G00720	52.1126	89.1701	0.7749278	0.00005	0.000282578

AT4G00750	13.3721	18.8378	0.494404439	0.0005	0.00230701
AT4G00755	20.9532	13.3103	-0.654627503	0.00005	0.000282578
AT4G00810	170.479	124.079	-0.458335071	0.00005	0.000282578
AT4G00820	13.5398	10.9323	-0.308609473	0.0094	0.0293309
AT4G00870	0.129665	0.8865	2.77333152	0.0015	0.00606399
AT4G00880	16.6019	27.3559	0.720503661	0.00005	0.000282578
AT4G00890	1.024	0.383268	-1.417790261	0.00425	0.0149278
AT4G00895	136.908	192.445	0.491239438	0.00005	0.000282578
AT4G00900	8.96732	17.2675	0.945310437	0.00005	0.000282578
AT4G00910	2.08868	0.709733	-1.557243186	0.00005	0.000282578
AT4G00940	2.27926	4.87846	1.097860294	0.00005	0.000282578
AT4G00950	31.6426	14.8811	-1.088386974	0.00005	0.000282578
AT4G00960	1.26671	0.556451	-1.186759715	0.00795	0.0254668
AT4G01010	2.32889	4.18663	0.846146925	0.00005	0.000282578
AT4G01020	3.84697	5.32664	0.469503201	0.0002	0.00101248
AT4G01050	356.134	175.178	-1.023598573	0.00005	0.000282578
AT4G01060	5.08707	10.9671	1.108275237	0.00105	0.00443869
AT4G01070	39.241	90.9081	1.212047039	0.00005	0.000282578
AT4G01080	1.49031	3.1509	1.080151511	0.00005	0.000282578
AT4G01090	13.3846	10.5304	-0.346013786	0.00175	0.00694124
AT4G01130	12.8275	8.48818	-0.59571287	0.0001	0.000537698
AT4G01150	1153.45	579.845	-0.992216261	0.00005	0.000282578
AT4G01190	0.550138	0.124397	-2.144841865	0.00685	0.0224336
AT4G01250	8.05787	5.19486	-0.633313661	0.00015	0.000779873
AT4G01270	1.43771	2.26556	0.656094999	0.00545	0.0184447
AT4G01310	357.262	175.086	-1.028918741	0.00005	0.000282578
AT4G01330	39.0747	20.7271	-0.914716519	0.00005	0.000282578
AT4G01335	2.03775	0.457229	-2.155988251	0.002	0.00779418
AT4G01395	26.7728	22.261	-0.266249627	0.0125	0.0373138
AT4G01430	5.08845	2.60294	-0.967084205	0.00005	0.000282578
AT4G01450	16.3416	21.6859	0.408208074	0.0002	0.00101248
AT4G01480	57.0334	120	1.07315546	0.00005	0.000282578
AT4G01540	3.99134	6.47572	0.698167428	0.00005	0.000282578
AT4G01580	7.87074	3.03085	-1.37677683	0.00005	0.000282578
AT4G01590	34.3878	26.3756	-0.382692908	0.0012	0.00498818
AT4G01595	3.05479	5.35884	0.810847536	0.0039	0.0138733
AT4G01610	75.3087	144.077	0.9359516	0.00005	0.000282578
AT4G01630	2.58024	0.542257	-2.250456587	0.00005	0.000282578
AT4G01650	12.14	9.31932	-0.381471826	0.01195	0.0359229
AT4G01670	7.71199	4.30008	-0.84273968	0.00715	0.0232695
AT4G01690	134.818	58.5753	-1.202648785	0.00005	0.000282578
AT4G01700	15.0859	44.1493	1.549189796	0.00125	0.00516712
AT4G01720	15.385	21.5597	0.48681266	0.00005	0.000282578
AT4G01730	6.5007	3.85544	-0.753699561	0.00005	0.000282578
AT4G01750	11.5129	17.6399	0.615591101	0.00005	0.000282578
AT4G01770	1.32526	0.747905	-0.825348493	0.0153	0.0442022
AT4G01800	88.8856	62.0046	-0.519574463	0.00005	0.000282578

AT4G01830	0.608157	0.334993	-0.860312864	0.0059	0.019741
AT4G01850	218.599	162.946	-0.423892864	0.00005	0.000282578
AT4G01870	126.795	96.8154	-0.389189402	0.00005	0.000282578
AT4G01880	9.95042	7.84351	-0.343258012	0.01745	0.0493019
AT4G01883	30.5647	9.30131	-1.716360581	0.00005	0.000282578
AT4G01890	0.67594	0.272726	-1.309442947	0.0172	0.048727
AT4G01900	47.0932	35.9036	-0.391390249	0.0013	0.00534838
AT4G01915	7.17949	13.32	0.891640812	0.00005	0.000282578
AT4G01940	76.0324	56.8909	-0.418416427	0.00035	0.00167549
AT4G01990	2.83105	5.1755	0.870361017	0.00005	0.000282578
AT4G02000	0.509735	1.10836	1.120607229	0.0116	0.035028
AT4G02050	35.6565	64.561	0.856497828	0.00005	0.000282578
AT4G02100	11.7175	7.93735	-0.561935467	0.00005	0.000282578
AT4G02110	2.37788	1.37914	-0.785906995	0.00005	0.000282578
AT4G02130	34.0272	14.8193	-1.199211138	0.00005	0.000282578
AT4G02200	9.24636	6.20169	-0.576224121	0.01625	0.0464987
AT4G02220	7.15584	11.5228	0.687298294	0.01675	0.0476547
AT4G02290	9.00025	11.129	0.306286984	0.01145	0.0346535
AT4G02350	22.4218	16.4246	-0.449043865	0.00005	0.000282578
AT4G02380	214.718	101.512	-1.080792856	0.00005	0.000282578
AT4G02410	10.6748	14.096	0.401076789	0.00065	0.00291062
AT4G02430	16.5792	21.7349	0.390639064	0.00095	0.00406118
AT4G02460	2.62723	4.83101	0.878782333	0.00005	0.000282578
AT4G02500	70.1722	57.1535	-0.296057744	0.0036	0.0129656
AT4G02530	210.266	132.442	-0.666854883	0.00005	0.000282578
AT4G02540	21.3789	16.0855	-0.410426843	0.00005	0.000282578
AT4G02550	7.63714	9.82734	0.363768499	0.01065	0.032587
AT4G02580	111.106	74.6138	-0.574422338	0.00005	0.000282578
AT4G02590	29.0869	36.9668	0.345860617	0.0013	0.00534838
AT4G02600	16.3803	22.2316	0.440650003	0.00005	0.000282578
AT4G02630	8.80694	13.0614	0.5685968	0.00005	0.000282578
AT4G02640	33.094	42.0654	0.346064385	0.00075	0.0032996
AT4G02660	0.567564	0.383812	-0.564383265	0.002	0.00779418
AT4G02700	2.55278	1.28238	-0.99324538	0.01115	0.0338768
AT4G02710	5.10121	9.46506	0.891772158	0.00005	0.000282578
AT4G02715	43.5925	55.2967	0.343113442	0.0013	0.00534838
AT4G02740	12.439	15.5766	0.324509853	0.0113	0.0342596
AT4G02760	4.07219	5.26551	0.370768397	0.0133	0.0393076
AT4G02770	2759.17	827.091	-1.738116373	0.00005	0.000282578
AT4G02790	38.6157	31.1551	-0.309719176	0.0037	0.0132727
AT4G02800	11.5601	3.32508	-1.797692921	0.00005	0.000282578
AT4G02810	0.315481	1.4141	2.16425912	0.0011	0.00462106
AT4G02850	9.65913	1.8859	-2.356640072	0.00045	0.00210009
AT4G02920	127.76	90.8075	-0.492552855	0.00005	0.000282578
AT4G02930	33.4478	43.1825	0.368535447	0.00045	0.00210009
AT4G02940	22.6834	49.6124	1.129063848	0.00005	0.000282578
AT4G02980	16.346	29.0503	0.829615423	0.00005	0.000282578

AT4G03030	26.5841	31.6514	0.251705689	0.01745	0.0493019
AT4G03100	7.06526	3.48297	-1.020424606	0.00005	0.000282578
AT4G03110	27.3499	15.0882	-0.858114853	0.00005	0.000282578
AT4G03190	22.483	14.5564	-0.627180952	0.00005	0.000282578
AT4G03205	13.5519	7.53317	-0.847166142	0.00005	0.000282578
AT4G03210	78.5854	49.8304	-0.657235151	0.00005	0.000282578
AT4G03280	1515.62	849.985	-0.834398796	0.00005	0.000282578
AT4G03320	4.53306	16.7878	1.888856019	0.00005	0.000282578
AT4G03390	25.3767	20.9913	-0.273712956	0.00645	0.0213006
AT4G03400	40.9949	28.8068	-0.509035034	0.0009	0.00387377
AT4G03420	15.2992	12.478	-0.294069501	0.01225	0.0366818
AT4G03480	0.20191	0.637356	1.658387061	0.00095	0.00406118
AT4G03510	28.072	19.4344	-0.530519285	0.00005	0.000282578
AT4G03560	90.3225	51.5273	-0.80974842	0.00005	0.000282578
AT4G03820	7.66095	10.1391	0.404334386	0.0029	0.0107667
AT4G03960	13.6933	43.151	1.655923824	0.00005	0.000282578
AT4G04020	65.8077	81.8681	0.315045013	0.0014	0.00571151
AT4G04180	2.18981	3.91767	0.83919018	0.00005	0.000282578
AT4G04210	33.0223	21.9438	-0.589627229	0.00005	0.000282578
AT4G04220	4.21849	5.90789	0.485916283	0.0006	0.00271108
AT4G04330	185.839	81.5025	-1.189137078	0.00005	0.000282578
AT4G04340	105.747	52.3528	-1.014278131	0.00005	0.000282578
AT4G04350	24.0243	18.7155	-0.360260804	0.0005	0.00230701
AT4G04450	1.40594	0.681582	-1.044575886	0.00065	0.00291062
AT4G04490	0.337653	3.52118	3.382445698	0.00005	0.000282578
AT4G04510	0	0.803022	inf	0.00005	0.000282578
AT4G04570	26.9745	19.128	-0.495910183	0.00005	0.000282578
AT4G04610	42.4237	121.054	1.512708395	0.00005	0.000282578
AT4G04620	13.2273	30.7881	1.218854234	0.00005	0.000282578
AT4G04640	1036.1	614.21	-0.754359346	0.00005	0.000282578
AT4G04695	5.41595	7.2466	0.420089842	0.0037	0.0132727
AT4G04740	13.436	19.3147	0.523595569	0.00005	0.000282578
AT4G04770	114.199	93.4808	-0.288808032	0.00325	0.0118728
AT4G04810	4.38226	10.6697	1.283772625	0.00005	0.000282578
AT4G04830	93.3458	268.31	1.523243809	0.00005	0.000282578
AT4G04840	58.215	33.5574	-0.794759993	0.00005	0.000282578
AT4G04850	29.4329	19.1461	-0.620379147	0.00005	0.000282578
AT4G04890	51.8598	37.1006	-0.483174124	0.00005	0.000282578
AT4G04910	34.4314	25.2806	-0.445694139	0.00005	0.000282578
AT4G04960	8.4441	12.1068	0.519802021	0.00005	0.000282578
AT4G04970	7.80353	6.37556	-0.291574821	0.00705	0.0229904
AT4G05020	7.67284	11.4264	0.574538364	0.00005	0.000282578
AT4G05050	364.198	458.425	0.331962723	0.00135	0.00552942
AT4G05060	21.2293	14.3441	-0.565599351	0.00005	0.000282578
AT4G05070	394.253	273.02	-0.530115094	0.00005	0.000282578
AT4G05090	18.7307	9.35865	-1.001032478	0.00005	0.000282578
AT4G05100	2.08789	3.94891	0.919408782	0.0001	0.000537698



AT4G05110	0.49446	2.72072	2.460062769	0.00005	0.000282578
AT4G05150	132.34	107.754	-0.296507759	0.003	0.0110887
AT4G05170	2.85631	0.680013	-2.070518334	0.00005	0.000282578
AT4G05180	2888.44	630.896	-2.194816418	0.00005	0.000282578
AT4G05190	10.5637	4.86868	-1.11751265	0.00005	0.000282578
AT4G05330	14.6275	9.10291	-0.684283496	0.00005	0.000282578
AT4G05390	15.5024	22.9106	0.563523658	0.00005	0.000282578
AT4G05520	10.8594	4.33555	-1.324657466	0.00005	0.000282578
AT4G05590	13.549	24.4051	0.848996288	0.00005	0.000282578
AT4G06534	2.89734	1.52051	-0.930173689	0.00005	0.000282578
AT4G06744	20.3135	24.5909	0.275685701	0.01215	0.0364357
AT4G07410	22.4243	17.6606	-0.344528593	0.0012	0.00498818
AT4G07820	6.73209	2.40647	-1.484136026	0.00005	0.000282578
AT4G07825	40.519	27.4508	-0.561750375	0.00005	0.000282578
AT4G07950	8.34366	11.5162	0.464912474	0.0057	0.0191634
AT4G07995	2.73873	0.749339	-1.869816599	0.00005	0.000282578
AT4G08040	2.97232	1.92391	-0.627548133	0.00245	0.0092976
AT4G08150	10.6661	13.9428	0.386487554	0.0016	0.00641937
AT4G08160	4.19094	5.63744	0.427766307	0.0024	0.0091296
AT4G08170	9.83099	7.17037	-0.45528914	0.00075	0.0032996
AT4G08230	14.6284	21.3729	0.547010693	0.00045	0.00210009
AT4G08290	18.8834	12.722	-0.569793057	0.00005	0.000282578
AT4G08300	11.6369	4.09467	-1.506887693	0.00005	0.000282578
AT4G08310	22.4315	17.7774	-0.335481756	0.0028	0.0104493
AT4G08470	12.9953	23.2394	0.838582882	0.00005	0.000282578
AT4G08480	7.92843	11.1633	0.493656453	0.00005	0.000282578
AT4G08500	11.9152	15.5571	0.384769985	0.0008	0.00349363
AT4G08510	5.04543	7.70012	0.6099037	0.00005	0.000282578
AT4G08520	56.9624	42.8478	-0.410788801	0.0001	0.000537698
AT4G08535	0.797016	0.302911	-1.395714717	0.00645	0.0213006
AT4G08570	1.72871	0.828327	-1.061423549	0.00445	0.0155271
AT4G08620	1.6596	2.74943	0.728296994	0.00045	0.00210009
AT4G08700	8.72028	6.73648	-0.37237952	0.0141	0.0412869
AT4G08770	7.04094	10.9855	0.641760581	0.00015	0.000779873
AT4G08920	79.0718	50.8914	-0.635741387	0.00005	0.000282578
AT4G08950	29.825	58.4628	0.970996789	0.00005	0.000282578
AT4G09000	369.146	234.24	-0.656204067	0.00005	0.000282578
AT4G09010	320.605	96.8169	-1.727466119	0.00005	0.000282578
AT4G09030	14.6084	24.8475	0.76630253	0.00005	0.000282578
AT4G09040	64.7172	40.2622	-0.684723185	0.00005	0.000282578
AT4G09060	3.07553	1.54123	-0.996752875	0.0006	0.00271108
AT4G09160	25.6891	10.0264	-1.357352651	0.00005	0.000282578
AT4G09300	0.585118	1.62585	1.474394656	0.0017	0.00676327
AT4G09340	11.6529	14.8874	0.353402781	0.003	0.0110887
AT4G09350	13.1413	17.5188	0.414795956	0.00155	0.00624225
AT4G09420	8.58851	3.41422	-1.33085184	0.00005	0.000282578
AT4G09460	18.0649	14.4628	-0.320842383	0.0175	0.0494159

AT4G09510	11.9168	8.23152	-0.53376612	0.00005	0.000282578
AT4G09550	20.4849	11.5789	-0.823062647	0.0001	0.000537698
AT4G09560	8.38016	5.59395	-0.58311043	0.00005	0.000282578
AT4G09650	813.095	367.229	-1.14674393	0.00005	0.000282578
AT4G09720	36.6348	28.0153	-0.386999798	0.00105	0.00443869
AT4G09750	13.8694	24.1101	0.797732258	0.0006	0.00271108
AT4G09760	69.8338	51.0648	-0.451596324	0.00125	0.00516712
AT4G09800	244.111	186.703	-0.386792197	0.00005	0.000282578
AT4G09890	37.8834	56.8255	0.584972656	0.00005	0.000282578
AT4G09900	17.8006	12.246	-0.539615282	0.00005	0.000282578
AT4G09950	4.66652	3.10493	-0.587786335	0.00305	0.0112447
AT4G09970	5.92197	10.2295	0.788586543	0.01395	0.0409307
AT4G10030	22.814	11.1644	-1.031013698	0.00005	0.000282578
AT4G10040	21.5341	42.4589	0.979443967	0.00005	0.000282578
AT4G10060	36.2449	22.8193	-0.667523472	0.00005	0.000282578
AT4G10080	63.0548	43.511	-0.535226025	0.00005	0.000282578
AT4G10110	26.8944	36.7273	0.449547037	0.0039	0.0138733
AT4G10120	32.1258	99.6873	1.633677338	0.00005	0.000282578
AT4G10300	96.0807	127.978	0.413577259	0.00005	0.000282578
AT4G10330	6.06689	8.40091	0.469588458	0.00465	0.0161167
AT4G10340	5867.23	992.211	-2.563960691	0.00005	0.000282578
AT4G10360	20.986	26.3889	0.330504004	0.0036	0.0129656
AT4G10380	10.7301	15.4039	0.521632141	0.00005	0.000282578
AT4G10390	2.37865	3.90613	0.715596958	0.00055	0.00251246
AT4G10430	19.7784	26.541	0.424297007	0.0003	0.00145851
AT4G10480	136.497	99.1949	-0.46053139	0.00005	0.000282578
AT4G10500	0.463906	6.61664	3.834194376	0.00005	0.000282578
AT4G10590	9.83826	11.8295	0.265914009	0.0158	0.0454124
AT4G10600	0.785388	1.45042	0.884993264	0.0174	0.049189
AT4G10610	36.5236	24.4612	-0.578333793	0.00005	0.000282578
AT4G10750	23.5127	17.1834	-0.452424691	0.0051	0.0174432
AT4G10810	51.4335	41.2952	-0.316734233	0.0064	0.0211702
AT4G10840	82.771	51.4315	-0.686473157	0.00005	0.000282578
AT4G10890	4.1464	2.95658	-0.487929984	0.0041	0.0144768
AT4G10930	7.96086	10.5766	0.40987973	0.0003	0.00145851
AT4G10955	8.33672	4.25907	-0.96894144	0.00005	0.000282578
AT4G11050	0.482026	1.04222	1.112476974	0.0011	0.00462106
AT4G11060	6.57461	8.90511	0.437728115	0.00945	0.0294592
AT4G11080	8.27633	3.93058	-1.074248957	0.00005	0.000282578
AT4G11110	13.8502	16.5475	0.256706462	0.0131	0.0388035
AT4G11150	332.907	263.994	-0.334614066	0.00155	0.00624225
AT4G11170	0.0870216	1.38416	3.991493366	0.00005	0.000282578
AT4G11175	49.1897	31.2385	-0.655031076	0.00005	0.000282578
AT4G11190	23.107	51.2546	1.149351524	0.00005	0.000282578
AT4G11211	102.825	178.804	0.798187939	0.00005	0.000282578
AT4G11220	30.6632	41.2348	0.427354146	0.0002	0.00101248
AT4G11240	27.5137	34.2895	0.317616703	0.003	0.0110887

AT4G11280	5.55868	11.9521	1.104449887	0.00005	0.000282578
AT4G11320	628.845	334.914	-0.908913776	0.00005	0.000282578
AT4G11330	21.0399	10.5221	-0.999705181	0.00005	0.000282578
AT4G11350	0.564901	1.28872	1.189868884	0.00095	0.00406118
AT4G11360	40.9268	61.8564	0.595877003	0.00005	0.000282578
AT4G11370	1.3588	2.66919	0.974068881	0.0051	0.0174432
AT4G11380	38.3545	31.3503	-0.290916605	0.0051	0.0174432
AT4G11393	1.1554	0	-inf	0.00005	0.000282578
AT4G11410	11.8897	17.653	0.570201066	0.00005	0.000282578
AT4G11460	14.1847	9.71097	-0.546648324	0.00005	0.000282578
AT4G11570	93.2081	60.9797	-0.612126281	0.00005	0.000282578
AT4G11630	24.4152	17.6254	-0.470123597	0.0003	0.00145851
AT4G11650	28.7293	151.815	2.401719596	0.00005	0.000282578
AT4G11660	4.24995	9.47384	1.156503439	0.00005	0.000282578
AT4G11670	7.88023	10.7656	0.450119084	0.0011	0.00462106
AT4G11680	11.1102	13.7332	0.305783042	0.01495	0.0433596
AT4G11690	0.546466	1.26926	1.215783984	0.00085	0.00368886
AT4G11780	1.1979	0.532256	-1.170315265	0.0023	0.00880163
AT4G11820	53.2485	35.6973	-0.576925927	0.00005	0.000282578
AT4G11830	30.2355	25.3913	-0.251909176	0.0121	0.0363089
AT4G11840	5.41762	10.7187	0.984398832	0.00005	0.000282578
AT4G11845	3.90109	8.46535	1.117692435	0.0001	0.000537698
AT4G11850	17.1649	23.8994	0.477512947	0.00005	0.000282578
AT4G11880	1.83549	3.61403	0.977443228	0.0007	0.00310863
AT4G11890	3.24658	9.39048	1.532278144	0.00005	0.000282578
AT4G11900	5.28096	9.24719	0.808214818	0.00005	0.000282578
AT4G11910	1.44859	5.70909	1.978611484	0.00005	0.000282578
AT4G11960	27.3072	57.0412	1.062722941	0.00005	0.000282578
AT4G11990	0.825211	1.53112	0.8917524	0.00155	0.00624225
AT4G12000	2.16229	3.75963	0.798030662	0.00075	0.0032996
AT4G12040	28.8669	35.3889	0.293880733	0.0071	0.0231313
AT4G12060	75.3782	51.4606	-0.550679066	0.00005	0.000282578
AT4G12090	11.3171	19.1543	0.759163987	0.00005	0.000282578
AT4G12110	23.0604	18.4816	-0.319327878	0.0067	0.0220088
AT4G12290	14.6966	132.566	3.173156469	0.00005	0.000282578
AT4G12300	11.1355	19.3172	0.794719654	0.00005	0.000282578
AT4G12310	29.2189	40.5285	0.472034915	0.00005	0.000282578
AT4G12320	52.9548	37.0074	-0.51694768	0.00005	0.000282578
AT4G12330	5.69527	3.60167	-0.661098237	0.00005	0.000282578
AT4G12340	33.6658	41.5999	0.305296312	0.00775	0.0249349
AT4G12350	0.391589	1.09702	1.486177684	0.00575	0.0193124
AT4G12382	0.598126	1.71111	1.516411171	0.00495	0.0169989
AT4G12390	21.1498	40.0318	0.920502466	0.00005	0.000282578
AT4G12400	1.8782	27.4524	3.869509679	0.00005	0.000282578
AT4G12420	123.992	61.6343	-1.008441689	0.00005	0.000282578
AT4G12470	630.583	521.778	-0.27325016	0.0082	0.026125
AT4G12490	16.8544	119.36	2.824122266	0.00005	0.000282578

AT4G12495	172.279	1008.61	2.549549675	0.00005	0.000282578
AT4G12500	3.34208	63.2155	4.241460168	0.00005	0.000282578
AT4G12510	30.0264	18.0052	-0.737817889	0.00005	0.000282578
AT4G12545	64.1166	89.2438	0.477054021	0.00005	0.000282578
AT4G12560	29.4358	37.6041	0.353318131	0.001	0.00425239
AT4G12570	9.25925	12.2809	0.407449047	0.00025	0.00123846
AT4G12600	63.3734	75.9917	0.261964434	0.01585	0.0455283
AT4G12610	18.2479	14.8431	-0.297938014	0.0081	0.0258615
AT4G12620	3.13056	1.89195	-0.72654679	0.00005	0.000282578
AT4G12690	7.93454	5.2064	-0.60786043	0.00025	0.00123846
AT4G12700	6.50261	4.81388	-0.433818721	0.0027	0.0101192
AT4G12730	145.12	85.2163	-0.768045043	0.00005	0.000282578
AT4G12735	1.79574	4.02518	1.164474818	0.0162	0.0463772
AT4G12800	3911.78	1057.56	-1.887085719	0.00005	0.000282578
AT4G12830	22.2395	34.3507	0.627215146	0.00005	0.000282578
AT4G12870	6.72605	2.5869	-1.378535218	0.00005	0.000282578
AT4G12880	82.6301	113.437	0.457151965	0.00005	0.000282578
AT4G12900	13.5826	4.26076	-1.672576974	0.00005	0.000282578
AT4G12910	16.6183	7.84881	-1.082226965	0.00005	0.000282578
AT4G12980	15.2069	5.86497	-1.374530449	0.00005	0.000282578
AT4G13000	1.42938	5.71643	1.999724935	0.00005	0.000282578
AT4G13010	97.2383	58.0726	-0.743667044	0.00005	0.000282578
AT4G13020	39.0771	25.9863	-0.588572172	0.00005	0.000282578
AT4G13030	9.25445	6.81514	-0.441403958	0.0023	0.00880163
AT4G13050	24.6235	17.0703	-0.528547429	0.00005	0.000282578
AT4G13110	4.34662	9.326	1.101364455	0.00005	0.000282578
AT4G13170	21.6451	25.8907	0.258393506	0.0131	0.0388035
AT4G13190	0.235552	1.17229	2.31521202	0.0091	0.0285401
AT4G13195	2.55421	4.77497	0.902614525	0.00005	0.000282578
AT4G13210	1.36578	0.504844	-1.435815553	0.00045	0.00210009
AT4G13250	126.166	167.327	0.407347082	0.00005	0.000282578
AT4G13260	1.84913	1.04984	-0.816677183	0.00135	0.00552942
AT4G13330	2.32226	3.89765	0.74707504	0.00015	0.000779873
AT4G13340	62.9977	42.6895	-0.561417893	0.00005	0.000282578
AT4G13370	4.43366	2.11534	-1.067608573	0.0031	0.0114009
AT4G13395	0.80529	3.68422	2.19377889	0.0002	0.00101248
AT4G13400	4.45598	6.84376	0.61904641	0.00035	0.00167549
AT4G13420	0.501392	4.31132	3.104118766	0.00005	0.000282578
AT4G13460	14.7924	18.6831	0.336877712	0.0016	0.00641937
AT4G13510	37.798	101.803	1.429398272	0.00005	0.000282578
AT4G13540	2.58476	5.32845	1.043685597	0.00005	0.000282578
AT4G13560	1.16266	0.645846	-0.848167162	0.0001	0.000537698
AT4G13575	18.2855	2.58127	-2.824547117	0.00005	0.000282578
AT4G13590	65.5998	51.5555	-0.347565072	0.00275	0.0102843
AT4G13615	110.15	92.1653	-0.257173908	0.0143	0.0417688
AT4G13640	27.3366	20.1211	-0.44212464	0.00005	0.000282578
AT4G13650	1.24947	2.23152	0.836710474	0.00005	0.000282578

AT4G13680	0.546803	1.15092	1.073694492	0.00665	0.0218627
AT4G13710	1.74605	3.35053	0.940294452	0.00005	0.000282578
AT4G13720	33.6777	25.4446	-0.404434102	0.00065	0.00291062
AT4G13750	1.29569	2.9824	1.202753177	0.00005	0.000282578
AT4G13810	3.4249	9.27889	1.437890366	0.00005	0.000282578
AT4G13830	76.1592	41.4336	-0.878217148	0.00005	0.000282578
AT4G13840	68.5222	47.6213	-0.524964467	0.00005	0.000282578
AT4G13860	15.1412	23.7128	0.647186477	0.00005	0.000282578
AT4G13880	1.39197	2.11238	0.601741269	0.004	0.0141788
AT4G13920	3.74735	9.89822	1.401298377	0.00005	0.000282578
AT4G13980	11.086	8.52208	-0.379461413	0.0025	0.00945953
AT4G13990	3.08083	4.43107	0.524336041	0.0023	0.00880163
AT4G14040	111.229	88.7566	-0.325606673	0.00145	0.00588787
AT4G14050	1.54079	3.20153	1.055091284	0.00005	0.000282578
AT4G14096	3.98001	5.77322	0.536604148	0.00095	0.00406118
AT4G14100	37.113	61.582	0.730584098	0.00005	0.000282578
AT4G14130	28.33	22.2368	-0.349381411	0.00375	0.0134211
AT4G14140	0.377198	1.15712	1.617144556	0.00005	0.000282578
AT4G14150	2.12399	1.02448	-1.051885154	0.00005	0.000282578
AT4G14200	4.58928	2.72467	-0.752186323	0.00005	0.000282578
AT4G14210	74.4893	51.8411	-0.522936874	0.00005	0.000282578
AT4G14220	13.1193	17.6927	0.431463483	0.0004	0.00188925
AT4G14230	39.5772	19.3352	-1.033439861	0.00005	0.000282578
AT4G14240	19.3821	13.0897	-0.566292859	0.00005	0.000282578
AT4G14290	3.63593	5.07579	0.481307957	0.0023	0.00880163
AT4G14310	6.91157	4.12232	-0.745556964	0.00005	0.000282578
AT4G14320	237.509	169.525	-0.486484138	0.00005	0.000282578
AT4G14330	5.20724	2.17133	-1.261939897	0.00005	0.000282578
AT4G14340	18.3615	15.2355	-0.269247074	0.01515	0.0438308
AT4G14360	34.5977	26.7135	-0.373107123	0.0003	0.00145851
AT4G14365	3.03581	21.3791	2.816047715	0.00005	0.000282578
AT4G14370	0.93406	3.66685	1.97295412	0.00005	0.000282578
AT4G14385	13.1411	17.712	0.430641083	0.00345	0.0125039
AT4G14390	0.458116	1.24893	1.446907763	0.00005	0.000282578
AT4G14400	3.2042	71.0052	4.469888577	0.00005	0.000282578
AT4G14430	27.4262	41.2006	0.587110602	0.00005	0.000282578
AT4G14440	51.6873	34.6851	-0.575493798	0.00005	0.000282578
AT4G14500	23.4349	16.4421	-0.511264066	0.0025	0.00945953
AT4G14540	39.7745	49.9602	0.328935458	0.00325	0.0118728
AT4G14550	18.2603	12.7369	-0.519696281	0.00815	0.0259914
AT4G14560	11.2467	6.86688	-0.711775091	0.00015	0.000779873
AT4G14605	10.171	7.95359	-0.354783431	0.00745	0.0241032
AT4G14615	36.2868	54.161	0.57780954	0.00005	0.000282578
AT4G14630	4.54135	26.0865	2.522110258	0.00005	0.000282578
AT4G14680	11.9664	17.1119	0.516010763	0.00005	0.000282578
AT4G14690	0.748852	1.68469	1.169730622	0.0092	0.0288044
AT4G14710	92.3025	118.228	0.357130122	0.0005	0.00230701

AT4G14716	92.0701	132.875	0.529265073	0.00005	0.000282578
AT4G14740	19.1828	13.9727	-0.457202492	0.00005	0.000282578
AT4G14750	10.5945	6.95758	-0.606658005	0.00005	0.000282578
AT4G14830	1.89967	3.96683	1.062237748	0.01565	0.0450446
AT4G14840	2.98589	1.74769	-0.772711711	0.0085	0.0269248
AT4G14870	98.8271	45.0157	-1.134478453	0.00005	0.000282578
AT4G14880	440.965	308.015	-0.517663541	0.00005	0.000282578
AT4G14900	40.9421	33.057	-0.3086293	0.002	0.00779418
AT4G14910	23.5997	18.3973	-0.359274469	0.0029	0.0107667
AT4G14920	14.2928	11.8742	-0.267458254	0.01215	0.0364357
AT4G14960	415.578	291.263	-0.512796839	0.00005	0.000282578
AT4G14965	22.6595	27.753	0.292527703	0.01515	0.0438308
AT4G14970	1.46682	0.886167	-0.727041334	0.0001	0.000537698
AT4G15000	593.01	404.894	-0.550512169	0.00005	0.000282578
AT4G15110	11.5968	8.66789	-0.419974015	0.0007	0.00310863
AT4G15130	15.4266	10.1246	-0.607555218	0.00025	0.00123846
AT4G15150	2.16228	10.208	2.239074975	0.00005	0.000282578
AT4G15160	68.1446	86.2801	0.340428511	0.001	0.00425239
AT4G15210	0.223679	39.2844	7.4563829	0.00005	0.000282578
AT4G15215	0.961051	1.38241	0.524500661	0.0038	0.0135703
AT4G15236	0.430979	0.729404	0.759100537	0.00445	0.0155271
AT4G15260	9.57072	16.9379	0.823555565	0.00005	0.000282578
AT4G15270	0.509563	1.23255	1.274313742	0.00365	0.0131214
AT4G15320	0.659364	0.264647	-1.317005821	0.00155	0.00624225
AT4G15390	49.2416	78.9923	0.681834389	0.00005	0.000282578
AT4G15410	15.6122	19.3167	0.3071748	0.0092	0.0288044
AT4G15440	0.281317	3.81792	3.762518231	0.00005	0.000282578
AT4G15450	8.01323	3.81537	-1.070560915	0.00005	0.000282578
AT4G15470	156.564	119.93	-0.384559932	0.00015	0.000779873
AT4G15490	23.1067	35.845	0.633460657	0.00005	0.000282578
AT4G15500	4.7711	3.36034	-0.505714712	0.00415	0.0146251
AT4G15510	40.5368	14.8419	-1.449556414	0.00005	0.000282578
AT4G15530	31.992	56.6435	0.824199226	0.00005	0.000282578
AT4G15540	47.3975	96.1202	1.020028685	0.00005	0.000282578
AT4G15550	24.919	43.3072	0.797360725	0.00865	0.0273357
AT4G15560	223.852	116.477	-0.942500105	0.00005	0.000282578
AT4G15610	62.2736	119.28	0.937659575	0.00005	0.000282578
AT4G15620	13.5111	26.7415	0.984935256	0.00005	0.000282578
AT4G15660	6.0685	0.789733	-2.941903076	0.00005	0.000282578
AT4G15670	7.068	1.22829	-2.524650818	0.00005	0.000282578
AT4G15680	16.1008	5.47192	-1.55701333	0.00005	0.000282578
AT4G15690	28.6647	3.60799	-2.990007935	0.00005	0.000282578
AT4G15700	22.6475	2.27595	-3.314811035	0.00005	0.000282578
AT4G15730	0.97523	1.37603	0.496697512	0.0128	0.0380767
AT4G15760	102.79	72.8109	-0.49747357	0.00005	0.000282578
AT4G15765	5.75712	14.8637	1.3683741	0.00005	0.000282578
AT4G15780	54.3118	72.1058	0.408849633	0.00015	0.000779873

AT4G15790	14.2184	10.6743	-0.413617663	0.00855	0.0270622
AT4G15800	23.5961	40.5303	0.780452426	0.00005	0.000282578
AT4G15802	96.3262	72.3861	-0.412215564	0.00005	0.000282578
AT4G15810	2.12137	3.34053	0.655080744	0.0003	0.00145851
AT4G15830	12.8311	6.35271	-1.01420079	0.00005	0.000282578
AT4G15850	2.61122	3.85742	0.562912224	0.00205	0.00796423
AT4G15890	1.7786	0.95848	-0.891921857	0.00005	0.000282578
AT4G15910	41.9239	71.8898	0.778014159	0.00005	0.000282578
AT4G15920	42.1208	32.4019	-0.378454425	0.00035	0.00167549
AT4G15940	34.0559	24.188	-0.493613275	0.00005	0.000282578
AT4G15960	6.32501	4.6799	-0.434590058	0.00895	0.028133
AT4G15990	11.9131	7.8452	-0.602666745	0.0009	0.00387377
AT4G16000	4.29669	1.8406	-1.223049559	0.00005	0.000282578
AT4G16060	24.3096	18.4654	-0.39670164	0.00165	0.00658915
AT4G16120	9.94337	7.61247	-0.385370254	0.00215	0.00830066
AT4G16143	49.932	41.3419	-0.27236	0.0076	0.024527
AT4G16144	12.1088	9.13741	-0.406198703	0.0006	0.00271108
AT4G16162	1.99665	0.438778	-2.186018363	0.0115	0.0347817
AT4G16180	23.0761	27.8428	0.270904882	0.007	0.0228553
AT4G16190	282.457	612.712	1.117177852	0.00005	0.000282578
AT4G16260	29.4167	47.3437	0.686537047	0.00005	0.000282578
AT4G16390	22.6493	17.0761	-0.407487947	0.0001	0.000537698
AT4G16410	126.913	213.99	0.753703524	0.00005	0.000282578
AT4G16442	12.3957	7.49123	-0.726565222	0.00005	0.000282578
AT4G16447	6.46707	11.6443	0.848439783	0.00015	0.000779873
AT4G16480	9.52971	7.1024	-0.424125698	0.00105	0.00443869
AT4G16500	49.7254	32.4172	-0.617223491	0.00005	0.000282578
AT4G16515	28.1555	17.8509	-0.657419958	0.0014	0.00571151
AT4G16520	134.812	106.415	-0.341247397	0.00075	0.0032996
AT4G16540	6.0139	8.88991	0.563867935	0.00125	0.00516712
AT4G16566	12.7852	8.97533	-0.51043784	0.00255	0.00962703
AT4G16580	11.6076	16.5212	0.509248769	0.00005	0.000282578
AT4G16650	19.3078	13.9686	-0.466996354	0.00005	0.000282578
AT4G16660	38.422	62.3916	0.699419189	0.00005	0.000282578
AT4G16690	3.11857	8.293	1.41100945	0.00005	0.000282578
AT4G16720	247.406	202.403	-0.289649815	0.00865	0.0273357
AT4G16745	3.46604	5.00565	0.530269116	0.0015	0.00606399
AT4G16790	4.40452	7.03504	0.675573822	0.00005	0.000282578
AT4G16807	1.31741	0.646555	-1.026859401	0.0041	0.0144768
AT4G16840	9.24966	5.8852	-0.652308892	0.0085	0.0269248
AT4G16857	5.35245	1.49409	-1.840932359	0.0001	0.000537698
AT4G16860	60.1574	28.4775	-1.078919715	0.00005	0.000282578
AT4G16880	34.885	10.8341	-1.687027521	0.00005	0.000282578
AT4G16920	1.34948	0.889785	-0.600874913	0.0015	0.00606399
AT4G16950	58.3258	35.7095	-0.707826257	0.00005	0.000282578
AT4G16957	5.53236	8.67453	0.648890554	0.00005	0.000282578
AT4G16960	2.04778	3.5953	0.812051427	0.00005	0.000282578

AT4G16980	61.3515	23.9127	-1.359321582	0.00005	0.000282578
AT4G16983	259.761	120.623	-1.106679822	0.00005	0.000282578
AT4G16990	154.691	86.7785	-0.833979709	0.00005	0.000282578
AT4G17000	4.74783	1.84075	-1.366974577	0.00005	0.000282578
AT4G17030	8.36686	32.4182	1.954045788	0.00005	0.000282578
AT4G17040	152.296	95.0502	-0.680116483	0.00005	0.000282578
AT4G17070	11.0856	20.5147	0.8879712	0.00005	0.000282578
AT4G17090	66.0858	157.124	1.249491348	0.00005	0.000282578
AT4G17100	89.4082	44.3993	-1.009870222	0.00005	0.000282578
AT4G17150	18.5795	11.8598	-0.647631996	0.00005	0.000282578
AT4G17170	121.172	76.6795	-0.66014353	0.00005	0.000282578
AT4G17190	19.8797	16.0634	-0.307518698	0.0125	0.0373138
AT4G17240	7.57308	3.6332	-1.059639384	0.00005	0.000282578
AT4G17245	132.205	63.3543	-1.061262294	0.00005	0.000282578
AT4G17250	6.38524	13.2739	1.055779559	0.00005	0.000282578
AT4G17260	12.7491	10.052	-0.34291283	0.01055	0.0323254
AT4G17300	35.318	23.9847	-0.558289253	0.00005	0.000282578
AT4G17340	299.462	192.614	-0.636660377	0.00005	0.000282578
AT4G17360	9.93236	6.54607	-0.601507523	0.0058	0.0194564
AT4G17390	223.659	167.419	-0.417837548	0.00005	0.000282578
AT4G17410	7.28658	9.24899	0.344053994	0.0045	0.0156801
AT4G17440	2.40819	5.54575	1.20343336	0.00005	0.000282578
AT4G17470	4.51447	6.5531	0.537620922	0.00275	0.0102843
AT4G17480	1.11599	1.80197	0.691250893	0.01265	0.03769
AT4G17483	1.04353	2.32292	1.154467393	0.0013	0.00534838
AT4G17490	6.46679	12.8959	0.995790795	0.00005	0.000282578
AT4G17500	19.1256	46.5613	1.283626331	0.00005	0.000282578
AT4G17510	32.0286	23.7549	-0.431135604	0.00025	0.00123846
AT4G17560	163.735	98.8813	-0.72759313	0.00005	0.000282578
AT4G17600	114.42	74.1734	-0.625365443	0.00005	0.000282578
AT4G17615	13.029	23.4344	0.846901499	0.00005	0.000282578
AT4G17640	40.0147	32.8907	-0.28285038	0.00645	0.0213006
AT4G17650	15.0738	20.0646	0.412609239	0.0008	0.00349363
AT4G17670	4.10322	13.7835	1.74811386	0.00005	0.000282578
AT4G17695	6.37112	8.51121	0.417817237	0.00615	0.0204586
AT4G17750	4.61573	6.15405	0.41497733	0.00915	0.0286771
AT4G17760	1.04823	1.93531	0.884609373	0.0105	0.0322084
AT4G17770	13.6174	19.8817	0.545989848	0.00005	0.000282578
AT4G17790	20.9993	38.9579	0.891574675	0.00005	0.000282578
AT4G17810	17.8203	5.8407	-1.609308435	0.00005	0.000282578
AT4G17870	67.9102	91.5153	0.43038468	0.00005	0.000282578
AT4G17880	11.9052	32.0465	1.428574942	0.00005	0.000282578
AT4G17900	34.4582	50.9373	0.563875148	0.00005	0.000282578
AT4G17910	6.6808	10.071	0.592114168	0.00005	0.000282578
AT4G18010	31.4316	41.1772	0.389630019	0.0001	0.000537698
AT4G18020	19.0106	26.6519	0.48743432	0.00005	0.000282578
AT4G18030	65.0378	38.9205	-0.740748213	0.00005	0.000282578



AT4G18060	21.0563	15.7653	-0.417499326	0.0004	0.00188925
AT4G18070	41.002	29.1317	-0.49310439	0.00005	0.000282578
AT4G18100	250.106	184.456	-0.43926295	0.00005	0.000282578
AT4G18130	11.7241	9.19448	-0.350637289	0.0074	0.0239743
AT4G18170	4.93748	3.06605	-0.68739368	0.00045	0.00210009
AT4G18205	55.2356	67.1398	0.281569839	0.00545	0.0184447
AT4G18210	3.15888	5.53963	0.810376487	0.00075	0.0032996
AT4G18240	57.561	38.1731	-0.592535305	0.00005	0.000282578
AT4G18250	0.632797	2.43103	1.941753032	0.00005	0.000282578
AT4G18253	2.19633	4.82324	1.134907763	0.00005	0.000282578
AT4G18280	14.4221	9.94131	-0.536773372	0.0005	0.00230701
AT4G18290	6.16368	4.28801	-0.523483693	0.0004	0.00188925
AT4G18300	4.04071	5.38543	0.414452728	0.0046	0.01597
AT4G18340	10.067	4.56478	-1.141016583	0.00005	0.000282578
AT4G18360	8.19694	12.4906	0.607685437	0.00005	0.000282578
AT4G18375	1.95819	1.08185	-0.856020273	0.0003	0.00145851
AT4G18390	28.8148	15.9062	-0.85722079	0.00005	0.000282578
AT4G18425	3.20214	4.86493	0.603382662	0.0072	0.0234061
AT4G18480	348.239	153.884	-1.178234546	0.00005	0.000282578
AT4G18570	25.9	20.7549	-0.319500117	0.004	0.0141788
AT4G18580	14.4716	27.0844	0.904237694	0.00595	0.0198839
AT4G18593	14.3214	19.1643	0.420248772	0.0053	0.0180196
AT4G18630	2.37718	4.11046	0.790048706	0.00005	0.000282578
AT4G18670	47.666	24.67	-0.950202848	0.00005	0.000282578
AT4G18700	53.591	91.5753	0.772967785	0.00005	0.000282578
AT4G18710	133.071	91.698	-0.537234028	0.00005	0.000282578
AT4G18730	200.892	167.327	-0.263749855	0.01645	0.0469712
AT4G18740	48.5605	13.0924	-1.891053691	0.00005	0.000282578
AT4G18750	0.813539	1.81617	1.158615837	0.00005	0.000282578
AT4G18760	13.7844	8.00287	-0.784447093	0.00005	0.000282578
AT4G18840	1.96672	3.16433	0.686108486	0.00115	0.00480526
AT4G18890	5.8391	12.3244	1.077699488	0.00005	0.000282578
AT4G18940	1.08966	2.97696	1.449961787	0.0003	0.00145851
AT4G18970	56.9381	37.0814	-0.618698638	0.00005	0.000282578
AT4G19003	26.1891	19.9478	-0.392736838	0.00505	0.0172987
AT4G19006	32.0849	24.2153	-0.40597561	0.0016	0.00641937
AT4G19110	148.253	123.366	-0.26511646	0.0136	0.0400639
AT4G19120	39.0821	22.1831	-0.817046999	0.00005	0.000282578
AT4G19130	0.777304	1.5436	0.989748104	0.0005	0.00230701
AT4G19160	61.6326	48.0525	-0.359082162	0.0003	0.00145851
AT4G19170	82.3552	31.3852	-1.391775344	0.00005	0.000282578
AT4G19185	11.3112	7.44467	-0.603472187	0.00005	0.000282578
AT4G19191	0.484732	1.21583	1.326682291	0.0003	0.00145851
AT4G19200	151.369	101.705	-0.573679169	0.00005	0.000282578
AT4G19210	69.3336	57.9029	-0.259919066	0.00965	0.0299919
AT4G19220	0.308563	0.584873	0.922558312	0.00985	0.0305115
AT4G19350	32.7217	25.4719	-0.361341126	0.00355	0.0128096

AT4G19370	1.82489	6.26609	1.779755987	0.00005	0.000282578
AT4G19380	14.7524	5.06314	-1.542845397	0.00005	0.000282578
AT4G19410	201.357	111.576	-0.85172889	0.00005	0.000282578
AT4G19420	30.8409	43.5913	0.499195362	0.00005	0.000282578
AT4G19440	2.74187	3.6182	0.400111986	0.00585	0.0195962
AT4G19450	16.7094	38.3352	1.198009776	0.00005	0.000282578
AT4G19500	17.6609	28.3287	0.681705534	0.00005	0.000282578
AT4G19510	13.6405	20.1069	0.559794142	0.00005	0.000282578
AT4G19520	7.41098	9.1016	0.296455852	0.0059	0.019741
AT4G19530	34.9207	22.7001	-0.621383826	0.00005	0.000282578
AT4G19560	0.664386	1.13615	0.774059741	0.01285	0.0381931
AT4G19600	14.6049	21.8717	0.58261288	0.00005	0.000282578
AT4G19610	9.67635	11.6983	0.273764034	0.01725	0.0488461
AT4G19645	2.966	5.5859	0.913271149	0.00325	0.0118728
AT4G19660	9.58148	18.9141	0.981141706	0.00005	0.000282578
AT4G19670	18.5841	22.4853	0.27491331	0.0104	0.0319512
AT4G19690	9.07655	1.12325	-3.014464971	0.00005	0.000282578
AT4G19700	8.37333	26.8711	1.682181992	0.00005	0.000282578
AT4G19720	4.48249	3.06675	-0.547589801	0.00455	0.015822
AT4G19810	24.226	54.1891	1.161446468	0.00005	0.000282578
AT4G19820	1.4707	0.846505	-0.796912494	0.0037	0.0132727
AT4G19830	23.0942	7.10224	-1.701184553	0.0001	0.000537698
AT4G19880	101.788	128.901	0.340695967	0.0009	0.00387377
AT4G19920	0.380659	0.967763	1.346154594	0.0105	0.0322084
AT4G19950	3.35886	6.67355	0.990482744	0.00005	0.000282578
AT4G19960	11.3298	17.6791	0.641922438	0.00005	0.000282578
AT4G19985	23.3571	16.3668	-0.513088885	0.00225	0.00863481
AT4G20000	3.00876	13.0051	2.111836556	0.00005	0.000282578
AT4G20020	17.7864	22.3607	0.330190816	0.0055	0.0185914
AT4G20030	19.1205	10.5209	-0.861862126	0.0001	0.000537698
AT4G20060	1.69027	2.42553	0.521046306	0.0016	0.00641937
AT4G20070	26.3298	15.1337	-0.798931811	0.00005	0.000282578
AT4G20110	16.4454	27.5795	0.745912203	0.00005	0.000282578
AT4G20130	33.8246	26.9628	-0.32710255	0.002	0.00779418
AT4G20170	7.86863	13.7554	0.805813717	0.00005	0.000282578
AT4G20230	2.1743	3.57919	0.71908212	0.00045	0.00210009
AT4G20235	0.567142	1.45434	1.358582681	0.00385	0.0137217
AT4G20260	715.625	488.153	-0.551870391	0.00005	0.000282578
AT4G20270	19.0472	25.0441	0.394891834	0.00015	0.000779873
AT4G20300	31.6407	25.0679	-0.335940374	0.0007	0.00310863
AT4G20360	822.692	614.909	-0.419979492	0.00025	0.00123846
AT4G20410	53.4495	34.5362	-0.6300671	0.00015	0.000779873
AT4G20430	10.5077	5.75145	-0.869449291	0.00005	0.000282578
AT4G20480	22.9779	29.8871	0.379275963	0.0008	0.00349363
AT4G20760	21.4042	11.9121	-0.845466144	0.00005	0.000282578
AT4G20820	8.15075	15.9107	0.964992588	0.00005	0.000282578
AT4G20830	24.9127	34.6478	0.475882363	0.00095	0.00406118

AT4G20835	49.1816	67.3011	0.452511415	0.0046	0.01597
AT4G20840	13.0628	17.2542	0.401483414	0.0009	0.00387377
AT4G20860	39.8825	62.955	0.658565117	0.00005	0.000282578
AT4G20880	12.9526	19.153	0.564328662	0.00005	0.000282578
AT4G20890	96.0297	78.3654	-0.293263856	0.00365	0.0131214
AT4G20930	5.71321	8.00912	0.487342176	0.002	0.00779418
AT4G20940	6.06162	3.23264	-0.906990561	0.00005	0.000282578
AT4G20960	15.2828	10.6558	-0.520269978	0.00005	0.000282578
AT4G21120	1.67591	4.54271	1.438608534	0.00005	0.000282578
AT4G21140	6.22584	9.83225	0.659253098	0.0002	0.00101248
AT4G21210	113.448	90.5873	-0.324650467	0.00115	0.00480526
AT4G21215	20.4182	11.4969	-0.82861078	0.00005	0.000282578
AT4G21250	0.519232	0.188146	-1.464526681	0.0151	0.0437129
AT4G21270	4.60873	2.72522	-0.757996551	0.00005	0.000282578
AT4G21280	1751.7	739.791	-1.243566063	0.00005	0.000282578
AT4G21320	3.04326	4.4315	0.542177518	0.01195	0.0359229
AT4G21380	1.70979	5.72004	1.742206095	0.00005	0.000282578
AT4G21390	2.43759	3.24247	0.41163774	0.0085	0.0269248
AT4G21400	12.365	4.15043	-1.574929522	0.00005	0.000282578
AT4G21410	30.4691	23.5298	-0.372857828	0.00295	0.0109262
AT4G21440	0.100283	0.510788	2.348647571	0.0133	0.0393076
AT4G21470	30.8378	56.4605	0.872542059	0.00005	0.000282578
AT4G21500	1.57991	2.64077	0.741116277	0.01535	0.0443205
AT4G21530	3.08964	4.38284	0.504427265	0.01735	0.0490658
AT4G21534	9.48403	15.7195	0.728983198	0.00005	0.000282578
AT4G21550	0.670253	2.26755	1.758356686	0.00075	0.0032996
AT4G21580	35.7039	49.9407	0.484134372	0.00005	0.000282578
AT4G21600	14.5605	10.3548	-0.491760209	0.0001	0.000537698
AT4G21650	7.81003	16.3734	1.067953939	0.00005	0.000282578
AT4G21680	8.45555	4.72631	-0.83918434	0.0092	0.0288044
AT4G21700	2.64841	3.46642	0.388319983	0.01315	0.0389337
AT4G21705	4.79811	3.60867	-0.410999013	0.01435	0.0418949
AT4G21750	66.449	36.2237	-0.875313573	0.00005	0.000282578
AT4G21770	17.3957	7.40493	-1.232172731	0.00005	0.000282578
AT4G21820	2.34005	1.05029	-1.155751625	0.00005	0.000282578
AT4G21830	17.6796	23.4871	0.409782958	0.00255	0.00962703
AT4G21840	0.890485	6.28021	2.818149586	0.00005	0.000282578
AT4G21880	2.56735	4.4218	0.784353785	0.00005	0.000282578
AT4G21900	5.57057	3.94824	-0.496615268	0.00155	0.00624225
AT4G21903	1.82232	5.46248	1.583779773	0.00005	0.000282578
AT4G21910	20.6466	39.2311	0.926093564	0.00005	0.000282578
AT4G21920	0.899529	3.53342	1.973823547	0.00005	0.000282578
AT4G21940	1.1549	1.80521	0.644398738	0.00735	0.0238331
AT4G21960	1298.61	2197.87	0.759137832	0.00005	0.000282578
AT4G21990	79.9017	149.836	0.907086188	0.00005	0.000282578
AT4G22010	43.7665	18.3445	-1.254479434	0.00005	0.000282578
AT4G22070	3.65044	2.06055	-0.825040896	0.0001	0.000537698

AT4G22080	4.54274	3.34007	-0.443684398	0.01535	0.0443205
AT4G22120	11.3979	20.5955	0.853561111	0.00005	0.000282578
AT4G22200	5.68901	11.4239	1.005805734	0.00005	0.000282578
AT4G22212	19.5239	25.4957	0.385012681	0.006	0.0200297
AT4G22214	7.37057	4.28243	-0.783346529	0.00005	0.000282578
AT4G22230	36.7318	11.7298	-1.646851181	0.00005	0.000282578
AT4G22270	4.26231	2.90602	-0.552590893	0.0172	0.048727
AT4G22280	0.652164	1.78572	1.453199174	0.00155	0.00624225
AT4G22290	20.1209	10.2277	-0.976213089	0.00005	0.000282578
AT4G22300	17.4986	13.1646	-0.410575815	0.002	0.00779418
AT4G22305	3.84686	6.8396	0.830230628	0.0003	0.00145851
AT4G22310	94.8446	72.1091	-0.3953843	0.00025	0.00123846
AT4G22360	14.5351	9.97096	-0.543736679	0.0003	0.00145851
AT4G22380	16.7889	24.6954	0.556734628	0.0002	0.00101248
AT4G22390	0.405918	1.42771	1.814442744	0.00035	0.00167549
AT4G22470	25.2169	7.98827	-1.65843593	0.00005	0.000282578
AT4G22485	85.2649	29.9987	-1.507051984	0.00005	0.000282578
AT4G22490	98.4039	158.967	0.691939908	0.00005	0.000282578
AT4G22505	50.0787	21.9732	-1.188452124	0.00005	0.000282578
AT4G22513	98.8011	10.4362	-3.242930607	0.00005	0.000282578
AT4G22517	241.879	33.4359	-2.854815663	0.00005	0.000282578
AT4G22530	17.2116	6.09958	-1.496599406	0.00005	0.000282578
AT4G22540	49.1571	28.4224	-0.790371426	0.00005	0.000282578
AT4G22550	8.17747	5.88111	-0.475566087	0.00925	0.0289277
AT4G22580	9.53744	13.4269	0.493452273	0.0002	0.00101248
AT4G22610	1.94789	6.09008	1.644548971	0.00005	0.000282578
AT4G22640	1.91138	0.44283	-2.10978976	0.01	0.0309035
AT4G22690	105.236	146.611	0.478365033	0.00005	0.000282578
AT4G22710	0.641348	1.65133	1.364449165	0.00005	0.000282578
AT4G22740	26.1088	32.6921	0.324405902	0.00635	0.0210292
AT4G22745	20.912	16.0779	-0.379252064	0.00475	0.0164173
AT4G22750	47.4428	39.6904	-0.257399056	0.0149	0.0432411
AT4G22755	8.21496	4.98566	-0.72046905	0.00005	0.000282578
AT4G22760	0.772654	1.46441	0.922425116	0.00025	0.00123846
AT4G22780	8.88827	11.0174	0.309809255	0.01305	0.0386862
AT4G22790	1.81154	3.52204	0.959194632	0.00005	0.000282578
AT4G22820	29.8938	40.8382	0.45007298	0.00005	0.000282578
AT4G22830	19.3914	10.8487	-0.837894791	0.00005	0.000282578
AT4G22880	1.74412	0.921731	-0.920081627	0.00635	0.0210292
AT4G22910	7.24165	5.66804	-0.353468511	0.0091	0.0285401
AT4G22920	10.672	17.3284	0.699307879	0.00005	0.000282578
AT4G22930	26.6182	20.1382	-0.402478278	0.00025	0.00123846
AT4G22970	1.26605	0.948713	-0.416290761	0.0095	0.029588
AT4G22980	2.60074	5.72392	1.13808133	0.00005	0.000282578
AT4G23000	4.37287	16.7723	1.939428176	0.00005	0.000282578
AT4G23020	5.29873	3.14667	-0.751820729	0.0001	0.000537698
AT4G23030	1.96836	1.24726	-0.658231868	0.0081	0.0258615

AT4G23040	10.2212	6.33253	-0.690710671	0.00005	0.000282578
AT4G23060	6.38174	4.92968	-0.372455833	0.01095	0.033356
AT4G23130	2.88583	7.49586	1.377107693	0.00005	0.000282578
AT4G23140	0.460081	5.95874	3.695047515	0.00005	0.000282578
AT4G23150	0.0678914	1.97331	4.86124497	0.0007	0.00310863
AT4G23160	0.0996166	0.785461	2.979081568	0.0003	0.00145851
AT4G23170	5.8265	27.7403	2.251281973	0.00005	0.000282578
AT4G23190	14.2961	19.585	0.454127497	0.0058	0.0194564
AT4G23200	6.50476	2.49362	-1.383254197	0.00005	0.000282578
AT4G23220	2.32241	4.73184	1.026778603	0.00005	0.000282578
AT4G23230	0.576116	2.44219	2.083744215	0.00005	0.000282578
AT4G23250	5.00061	10.2243	1.031826075	0.00005	0.000282578
AT4G23260	29.6498	68.2674	1.203174434	0.00005	0.000282578
AT4G23270	48.7563	37.3869	-0.383055795	0.0003	0.00145851
AT4G23280	0.188527	1.47329	2.966198376	0.00005	0.000282578
AT4G23290	32.5727	12.1117	-1.427261936	0.00005	0.000282578
AT4G23320	0.0561177	1.57484	4.810605571	0.001	0.00425239
AT4G23340	0.876898	1.82921	1.060739767	0.00245	0.0092976
AT4G23400	367.158	229.361	-0.678780935	0.00005	0.000282578
AT4G23430	41.4931	25.7509	-0.688248591	0.00005	0.000282578
AT4G23493	2.96726	12.5832	2.084295606	0.00005	0.000282578
AT4G23496	2.1453	1.12769	-0.927808881	0.0084	0.0266576
AT4G23500	10.6489	7.93441	-0.424509558	0.00125	0.00516712
AT4G23550	8.88715	6.9068	-0.36370339	0.01515	0.0438308
AT4G23570	26.8002	38.5595	0.524842577	0.00005	0.000282578
AT4G23600	13.039	22.4804	0.785834477	0.00005	0.000282578
AT4G23630	65.6477	87.0416	0.40696061	0.00005	0.000282578
AT4G23650	82.9879	58.8772	-0.495191937	0.00005	0.000282578
AT4G23670	1092.83	2093.98	0.938178669	0.00005	0.000282578
AT4G23680	97.8344	485.784	2.311901241	0.00005	0.000282578
AT4G23710	81.0411	58.5278	-0.469531706	0.00005	0.000282578
AT4G23800	50.6225	23.6892	-1.095549278	0.00005	0.000282578
AT4G23810	4.38776	12.8064	1.545308456	0.00025	0.00123846
AT4G23820	108.612	35.0566	-1.631425521	0.00005	0.000282578
AT4G23870	23.0554	18.0001	-0.357099775	0.0061	0.0203154
AT4G23880	4.88966	6.71184	0.456974173	0.01575	0.0452888
AT4G23890	187.188	152.08	-0.299657514	0.0043	0.0150809
AT4G23895	12.3164	8.19171	-0.58834408	0.0004	0.00188925
AT4G23940	15.4792	10.956	-0.498609741	0.00005	0.000282578
AT4G23950	1.95068	3.18203	0.705970307	0.00025	0.00123846
AT4G23990	3.91438	1.54639	-1.339879603	0.00005	0.000282578
AT4G24015	11.657	5.68025	-1.037170218	0.00015	0.000779873
AT4G24020	30.8944	24.2352	-0.350241367	0.0003	0.00145851
AT4G24040	6.30823	4.7928	-0.396366524	0.00475	0.0164173
AT4G24050	7.04198	4.00779	-0.813174214	0.00005	0.000282578
AT4G24090	36.2728	23.4743	-0.627805978	0.00005	0.000282578
AT4G24100	13.0375	10.3605	-0.331573623	0.0027	0.0101192

AT4G24110	2.35923	7.49891	1.668364836	0.00005	0.000282578
AT4G24120	13.1184	26.0149	0.987746391	0.00005	0.000282578
AT4G24150	0.288818	0.992289	1.780599703	0.00015	0.000779873
AT4G24190	127.47	179.158	0.491074717	0.00005	0.000282578
AT4G24200	7.8254	9.59549	0.294191982	0.0068	0.0222907
AT4G24260	0.181069	0.761415	2.072143421	0.0003	0.00145851
AT4G24275	15.2305	6.71841	-1.180771559	0.00005	0.000282578
AT4G24280	111.144	159.277	0.519107885	0.00005	0.000282578
AT4G24330	50.1979	41.3757	-0.278843291	0.00575	0.0193124
AT4G24340	5.77737	8.39367	0.538888852	0.00185	0.00728767
AT4G24420	0	0.648878	inf	0.00005	0.000282578
AT4G24450	2.14202	10.3617	2.274216864	0.00005	0.000282578
AT4G24510	68.2078	21.1895	-1.686587185	0.00005	0.000282578
AT4G24540	1.50082	6.84907	2.190157147	0.00005	0.000282578
AT4G24570	6.79402	13.3603	0.975615033	0.00005	0.000282578
AT4G24590	16.7198	21.2621	0.346726505	0.00465	0.0161167
AT4G24620	76.0635	61.7589	-0.300557268	0.0023	0.00880163
AT4G24660	12.0943	22.7214	0.90972446	0.00005	0.000282578
AT4G24670	5.18006	2.60305	-0.992765785	0.00005	0.000282578
AT4G24740	39.0743	64.0423	0.712805093	0.00005	0.000282578
AT4G24750	49.499	32.1452	-0.622796053	0.00005	0.000282578
AT4G24770	487.122	278.791	-0.805099153	0.00005	0.000282578
AT4G24800	43.5908	21.5846	-1.014021324	0.00005	0.000282578
AT4G24820	103.97	80.6699	-0.366064934	0.0116	0.035028
AT4G24890	0.767307	3.60916	2.23378728	0.00005	0.000282578
AT4G24930	74.9308	51.1108	-0.551930682	0.00005	0.000282578
AT4G24970	2.44333	3.73627	0.612749985	0.00015	0.000779873
AT4G24972	17.5593	26.4786	0.592591512	0.00005	0.000282578
AT4G25010	0.145019	1.29408	3.157612972	0.00235	0.00897001
AT4G25020	0.688384	1.74538	1.3422557	0.00035	0.00167549
AT4G25050	378.967	162.683	-1.220008725	0.00005	0.000282578
AT4G25080	336.592	157.728	-1.093562096	0.00005	0.000282578
AT4G25110	3.59624	6.83786	0.927055581	0.00005	0.000282578
AT4G25120	3.05828	4.04902	0.404852271	0.00305	0.0112447
AT4G25150	2.94837	5.89486	0.999539966	0.00005	0.000282578
AT4G25160	1.891	3.08852	0.70776631	0.00005	0.000282578
AT4G25200	0	2.15157	inf	0.00005	0.000282578
AT4G25220	8.65937	4.50708	-0.94206901	0.00005	0.000282578
AT4G25260	20.3074	13.9895	-0.53766114	0.0003	0.00145851
AT4G25280	20.2962	13.4362	-0.595084465	0.00005	0.000282578
AT4G25290	15.702	10.9794	-0.516149114	0.00005	0.000282578
AT4G25320	12.6823	10.1791	-0.3172064	0.0105	0.0322084
AT4G25340	15.6623	25.1429	0.682854974	0.00005	0.000282578
AT4G25370	118.572	72.1345	-0.717002035	0.00005	0.000282578
AT4G25390	3.91231	6.23725	0.672889396	0.00005	0.000282578
AT4G25400	4.3925	2.97688	-0.561241219	0.0177	0.049875
AT4G25420	1.1742	0.601976	-0.963900287	0.0101	0.0311631

AT4G25440	10.4911	8.46581	-0.309445938	0.01635	0.0467368
AT4G25450	32.401	18.431	-0.813903991	0.00005	0.000282578
AT4G25470	4.84453	1.15654	-2.066541543	0.00005	0.000282578
AT4G25480	2.94453	1.06626	-1.4654781	0.00005	0.000282578
AT4G25490	1.32406	0.417293	-1.665835875	0.0023	0.00880163
AT4G25500	64.9195	39.9461	-0.700597231	0.00005	0.000282578
AT4G25570	267.29	180.002	-0.570392927	0.00005	0.000282578
AT4G25600	4.15606	7.16824	0.786402459	0.0001	0.000537698
AT4G25640	45.3176	69.9732	0.626731012	0.00005	0.000282578
AT4G25650	67.2179	47.6264	-0.497083969	0.00005	0.000282578
AT4G25680	23.9485	19.0961	-0.32665727	0.0057	0.0191634
AT4G25707	0.842346	1.60335	0.928604532	0.01175	0.0354077
AT4G25710	10.1235	19.3717	0.936242406	0.00005	0.000282578
AT4G25750	3.6534	0.865294	-2.077977415	0.00005	0.000282578
AT4G25760	3.054	10.0268	1.715089284	0.00005	0.000282578
AT4G25800	1.09958	2.63637	1.261600287	0.00005	0.000282578
AT4G25810	6.54612	41.0356	2.648164093	0.00005	0.000282578
AT4G25830	14.9355	11.203	-0.414860419	0.00175	0.00694124
AT4G25835	8.33704	5.09308	-0.710996878	0.00005	0.000282578
AT4G25880	27.2169	33.7794	0.311640949	0.00685	0.0224336
AT4G25900	36.7252	51.1433	0.477774905	0.00005	0.000282578
AT4G25960	43.7969	23.0358	-0.926951056	0.00005	0.000282578
AT4G25970	53.8699	44.1047	-0.288546983	0.0072	0.0234061
AT4G25990	9.82031	2.73814	-1.842572354	0.00005	0.000282578
AT4G26000	19.7224	14.8998	-0.404542157	0.0005	0.00230701
AT4G26010	59.3875	49.6988	-0.256948284	0.0135	0.039819
AT4G26060	9.77338	15.1373	0.631178407	0.00005	0.000282578
AT4G26080	36.5346	48.6797	0.414056865	0.00005	0.000282578
AT4G26110	41.1534	58.5216	0.507957586	0.00005	0.000282578
AT4G26120	1.17027	3.00323	1.359673546	0.00005	0.000282578
AT4G26130	95.4294	61.5589	-0.63246635	0.00005	0.000282578
AT4G26140	6.4819	4.85365	-0.417346685	0.0012	0.00498818
AT4G26150	2.85278	5.61198	0.976141374	0.00005	0.000282578
AT4G26160	12.1645	15.6756	0.365843643	0.0138	0.0405566
AT4G26190	12.5883	16.3599	0.378080464	0.0004	0.00188925
AT4G26200	3.44164	6.71426	0.964132207	0.00005	0.000282578
AT4G26210	17.9707	24.79	0.464111665	0.0006	0.00271108
AT4G26260	1.48587	0.70991	-1.065599858	0.00335	0.0121887
AT4G26270	3.19017	9.57925	1.5862794	0.00005	0.000282578
AT4G26370	63.9803	29.7662	-1.103952701	0.00005	0.000282578
AT4G26510	37.1962	17.675	-1.073445027	0.0003	0.00145851
AT4G26530	384.127	253.689	-0.598522408	0.00005	0.000282578
AT4G26540	30.7599	11.8096	-1.381090713	0.00005	0.000282578
AT4G26550	11.167	8.23202	-0.439923267	0.0025	0.00945953
AT4G26555	59.8158	32.2136	-0.892856718	0.00005	0.000282578
AT4G26600	5.30512	8.01191	0.59476083	0.00005	0.000282578
AT4G26620	16.0814	24.2055	0.589941887	0.00035	0.00167549

AT4G26630	67.3357	86.3615	0.359016707	0.0004	0.00188925
AT4G26650	21.5704	15.5638	-0.470858584	0.00005	0.000282578
AT4G26660	6.55381	2.62843	-1.318132535	0.00005	0.000282578
AT4G26670	60.9663	39.4338	-0.628579251	0.00005	0.000282578
AT4G26690	51.0399	33.1081	-0.624441282	0.00005	0.000282578
AT4G26700	37.0311	20.5372	-0.850497904	0.00005	0.000282578
AT4G26750	19.7642	15.7417	-0.328298209	0.00565	0.0190219
AT4G26780	9.31923	17.3447	0.896212225	0.00005	0.000282578
AT4G26790	3.44823	7.79073	1.17590251	0.00005	0.000282578
AT4G26830	2.84581	1.70784	-0.736666522	0.00045	0.00210009
AT4G26850	78.4176	175.171	1.159514559	0.00005	0.000282578
AT4G26860	52.8314	33.4989	-0.657281918	0.00005	0.000282578
AT4G26890	2.1403	6.24782	1.545539861	0.00005	0.000282578
AT4G26910	46.7427	37.1805	-0.330194899	0.0123	0.0368055
AT4G26950	0.572802	4.62079	3.01203109	0.00005	0.000282578
AT4G26990	3.90041	6.32075	0.69646997	0.00005	0.000282578
AT4G27010	1.38763	2.73388	0.978326983	0.00005	0.000282578
AT4G27020	9.36016	18.5586	0.987482786	0.00005	0.000282578
AT4G27030	19.5749	31.2028	0.672670559	0.0001	0.000537698
AT4G27070	3.90929	10.1472	1.376103172	0.00005	0.000282578
AT4G27080	26.3478	21.7626	-0.275831577	0.00885	0.0278636
AT4G27090	718.349	572.875	-0.326464547	0.00165	0.00658915
AT4G27100	8.3122	5.6818	-0.548882318	0.0002	0.00101248
AT4G27130	123.566	182.8	0.56498424	0.00005	0.000282578
AT4G27180	28.0359	23.0739	-0.281013511	0.0068	0.0222907
AT4G27230	86.8143	70.5279	-0.299738619	0.00895	0.028133
AT4G27240	7.67948	4.85199	-0.662432048	0.00005	0.000282578
AT4G27260	20.9991	25.0411	0.253970441	0.01655	0.0471864
AT4G27280	9.43374	24.4984	1.376785784	0.00005	0.000282578
AT4G27300	27.6848	34.9987	0.338207236	0.00125	0.00516712
AT4G27310	36.1342	5.65563	-2.675605309	0.00005	0.000282578
AT4G27320	78.1304	48.4875	-0.68827113	0.00005	0.000282578
AT4G27390	24.349	16.6841	-0.545388658	0.0018	0.00711608
AT4G27400	2.64131	0.712163	-1.890974246	0.00005	0.000282578
AT4G27430	39.5417	26.0154	-0.604009008	0.00005	0.000282578
AT4G27440	971.039	166.377	-2.545073231	0.00005	0.000282578
AT4G27460	1.62351	2.98413	0.878194115	0.0004	0.00188925
AT4G27470	26.6841	19.667	-0.440203447	0.0002	0.00101248
AT4G27480	1.5473	2.65947	0.78138582	0.0004	0.00188925
AT4G27520	169.68	97.3472	-0.801605138	0.00005	0.000282578
AT4G27560	13.984	26.462	0.920145015	0.00005	0.000282578
AT4G27585	17.0327	22.5573	0.405287247	0.00025	0.00123846
AT4G27595	4.33192	3.10324	-0.481231323	0.00025	0.00123846
AT4G27620	15.9293	12.1305	-0.393043853	0.00225	0.00863481
AT4G27640	24.0215	37.2709	0.633723415	0.00005	0.000282578
AT4G27657	1.17689	4.69012	1.994645353	0.00005	0.000282578
AT4G27700	154.838	77.2098	-1.003903697	0.00005	0.000282578



AT4G27710	38.472	20.7335	-0.891845155	0.00005	0.000282578
AT4G27720	27.5271	14.7757	-0.897626149	0.00005	0.000282578
AT4G27760	24.6793	19.5498	-0.336147626	0.0053	0.0180196
AT4G27800	155.312	120.262	-0.368988446	0.0002	0.00101248
AT4G27830	35.2722	42.8937	0.282234205	0.0058	0.0194564
AT4G27860	26.9754	33.7861	0.324785474	0.00245	0.0092976
AT4G27870	68.946	35.7672	-0.946829671	0.00005	0.000282578
AT4G27880	14.0044	10.6768	-0.39140086	0.00235	0.00897001
AT4G27900	18.9971	36.6774	0.949112171	0.00005	0.000282578
AT4G27940	3.12489	5.49537	0.814411214	0.00005	0.000282578
AT4G27950	5.75926	3.78315	-0.606295474	0.00125	0.00516712
AT4G27960	106.119	74.0049	-0.519990283	0.00005	0.000282578
AT4G28025	98.3107	60.9216	-0.690394614	0.00005	0.000282578
AT4G28030	95.3021	119.284	0.323820632	0.00165	0.00658915
AT4G28050	33.4441	18.0027	-0.893538427	0.00005	0.000282578
AT4G28085	6.84279	11.31	0.724942351	0.01025	0.0315592
AT4G28100	11.7112	14.971	0.35428168	0.00525	0.0178784
AT4G28110	0.325899	1.32352	2.021883165	0.00085	0.00368886
AT4G28180	10.6413	5.35124	-0.99172927	0.00005	0.000282578
AT4G28190	4.06376	2.66766	-0.607240398	0.0002	0.00101248
AT4G28200	15.8222	20.5554	0.377567233	0.00055	0.00251246
AT4G28220	11.474	6.23486	-0.879939352	0.00025	0.00123846
AT4G28240	55.9093	43.1968	-0.37216384	0.01	0.0309035
AT4G28250	26.1045	37.9752	0.540759037	0.00005	0.000282578
AT4G28260	40.6364	51.2016	0.333416295	0.00065	0.00291062
AT4G28270	12.3551	41.7708	1.757388087	0.00005	0.000282578
AT4G28300	47.3215	39.9047	-0.245937127	0.0146	0.0424952
AT4G28330	1.10499	2.08886	0.91868249	0.0101	0.0311631
AT4G28350	3.11484	5.90034	0.921640032	0.00005	0.000282578
AT4G28360	26.327	19.196	-0.455737415	0.0002	0.00101248
AT4G28390	7.31817	11.6683	0.67303955	0.00005	0.000282578
AT4G28410	1.93408	1.09323	-0.823050515	0.0025	0.00945953
AT4G28430	2.04118	1.29828	-0.652801848	0.0106	0.0324543
AT4G28450	11.7659	14.4529	0.296747321	0.014	0.041048
AT4G28490	4.57632	9.59032	1.067391018	0.00005	0.000282578
AT4G28510	20.0257	24.5736	0.295256553	0.01105	0.0336205
AT4G28550	6.48023	3.78164	-0.777032989	0.00005	0.000282578
AT4G28570	12.0263	16.472	0.453822882	0.00005	0.000282578
AT4G28610	37.7915	24.2896	-0.63772305	0.00005	0.000282578
AT4G28660	131.004	102.56	-0.353142696	0.00035	0.00167549
AT4G28700	0.744858	0.315768	-1.23810044	0.0073	0.0236941
AT4G28706	33.0947	21.3292	-0.633770338	0.0011	0.00462106
AT4G28750	1757.34	369.271	-2.25064147	0.00005	0.000282578
AT4G28755	7052.67	1307.32	-2.431557216	0.00005	0.000282578
AT4G28780	25.4533	10.2671	-1.309823971	0.00005	0.000282578
AT4G28790	1.35602	8.45036	2.639634347	0.00005	0.000282578
AT4G28850	11.9419	6.52193	-0.872661531	0.00005	0.000282578

AT4G28860	37.3549	20.2554	-0.882990924	0.00005	0.000282578
AT4G28880	63.2656	42.2589	-0.582166048	0.00005	0.000282578
AT4G28940	21.5585	14.8184	-0.540867119	0.00005	0.000282578
AT4G28950	2.43288	1.10624	-1.137000748	0.00005	0.00230701
AT4G28980	19.4724	16.1816	-0.267076444	0.01675	0.0476547
AT4G28990	8.85763	6.43633	-0.460682437	0.0017	0.00676327
AT4G29020	238.518	124.83	-0.934133451	0.00005	0.000282578
AT4G29030	55.1838	31.1829	-0.823489701	0.00005	0.000282578
AT4G29040	94.2717	72.5112	-0.378620895	0.0002	0.00101248
AT4G29110	27.6856	13.3057	-1.057091377	0.00005	0.000282578
AT4G29140	12.8756	10.5732	-0.284227586	0.01465	0.0426155
AT4G29150	0.926078	0.426304	-1.119251119	0.0098	0.0303881
AT4G29180	3.80198	2.78692	-0.448079353	0.00285	0.010609
AT4G29190	46.4553	34.6282	-0.423895803	0.0001	0.000537698
AT4G29210	18.819	44.311	1.235474917	0.00005	0.000282578
AT4G29220	58.6834	73.9737	0.334059978	0.007	0.0228553
AT4G29240	4.05282	2.64937	-0.613276763	0.0009	0.00387377
AT4G29270	44.86	63.0133	0.490226745	0.00005	0.000282578
AT4G29310	11.7661	7.35752	-0.677344739	0.00005	0.000282578
AT4G29340	3.34873	5.16445	0.625000654	0.00675	0.0221564
AT4G29410	136.629	106.497	-0.359450943	0.0015	0.00606399
AT4G29480	102.717	78.244	-0.392622941	0.0001	0.000537698
AT4G29510	34.5643	22.857	-0.596646647	0.00005	0.000282578
AT4G29520	17.0104	28.2465	0.731655049	0.0002	0.00101248
AT4G29590	20.8064	16.309	-0.351359042	0.0015	0.00606399
AT4G29700	16.5227	30.2615	0.873034042	0.00005	0.000282578
AT4G29750	24.5124	17.2429	-0.50750931	0.00005	0.000282578
AT4G29770	0	1.91272	inf	0.00005	0.000282578
AT4G29820	8.35921	11.8858	0.507800501	0.00045	0.00210009
AT4G29840	45.9491	56.1126	0.288288158	0.01	0.0309035
AT4G29900	32.3048	40.4396	0.324020184	0.0023	0.00880163
AT4G29905	338.061	90.9518	-1.894109496	0.00005	0.000282578
AT4G29910	6.60193	4.69592	-0.491480011	0.00085	0.00368886
AT4G29950	30.2545	38.7609	0.357452327	0.0017	0.00676327
AT4G29990	0.87574	1.61787	0.885521174	0.00005	0.000282578
AT4G30010	162.362	121.177	-0.422098123	0.00005	0.000282578
AT4G30020	28.6854	23.1318	-0.310439102	0.00195	0.00762526
AT4G30110	3.54772	7.93591	1.161503513	0.00005	0.000282578
AT4G30140	43.2903	30.0192	-0.528158268	0.00005	0.000282578
AT4G30150	2.63251	3.67851	0.482682502	0.00005	0.000282578
AT4G30170	122.414	102.455	-0.25677817	0.01155	0.0349062
AT4G30200	30.4414	39.5064	0.376051678	0.0002	0.00101248
AT4G30210	62.7625	79.8539	0.34746005	0.0005	0.00230701
AT4G30250	2.58763	1.14928	-1.170901018	0.00005	0.000282578
AT4G30260	45.7596	33.0103	-0.471158191	0.00005	0.000282578
AT4G30270	342.501	1566.55	2.193410712	0.00005	0.000282578
AT4G30280	20.6622	45.0863	1.125695248	0.00005	0.000282578

AT4G30290	16.3596	23.8715	0.545151749	0.00005	0.000282578
AT4G30310	52.5453	37.0573	-0.503803956	0.00005	0.000282578
AT4G30330	15.8426	22.4191	0.500919241	0.00075	0.0032996
AT4G30340	17.7504	10.4736	-0.761094123	0.00005	0.000282578
AT4G30350	8.6365	10.8453	0.328551287	0.00305	0.0112447
AT4G30360	12.6436	10.3753	-0.285254247	0.0119	0.0357876
AT4G30370	4.34671	8.47112	0.96262888	0.00005	0.000282578
AT4G30440	66.8168	85.4792	0.355362515	0.00035	0.00167549
AT4G30460	11.3864	16.0715	0.497192899	0.0013	0.00534838
AT4G30490	19.3742	36.8503	0.927539625	0.00005	0.000282578
AT4G30500	5.06556	9.20907	0.862333701	0.00005	0.000282578
AT4G30510	8.59271	6.35967	-0.434161299	0.0056	0.0188774
AT4G30530	121.234	245.325	1.016899902	0.00005	0.000282578
AT4G30610	18.0234	9.90382	-0.863814193	0.00005	0.000282578
AT4G30620	51.2762	33.306	-0.622507251	0.0001	0.000537698
AT4G30630	9.87885	14.4383	0.547485874	0.00005	0.000282578
AT4G30640	0.915892	1.82819	0.997166621	0.0064	0.0211702
AT4G30650	86.833	39.916	-1.121276274	0.00005	0.000282578
AT4G30660	348.981	149.365	-1.224306364	0.00005	0.000282578
AT4G30670	85.9145	138.58	0.689745517	0.00005	0.000282578
AT4G30680	5.52934	3.43614	-0.686318468	0.0048	0.0165649
AT4G30690	98.1403	45.7682	-1.100500128	0.00005	0.000282578
AT4G30710	10.7168	7.4989	-0.515123296	0.00005	0.000282578
AT4G30910	25.406	12.4462	-1.029463916	0.00005	0.000282578
AT4G30920	55.3024	38.5529	-0.520502706	0.00005	0.000282578
AT4G30960	159.959	234.901	0.554350688	0.00005	0.000282578
AT4G30990	4.69135	6.53291	0.477722627	0.00005	0.000282578
AT4G30993	34.3686	26.2409	-0.389273883	0.0003	0.00145851
AT4G31000	9.69184	4.02155	-1.269018931	0.00005	0.000282578
AT4G31040	44.498	36.1865	-0.298288919	0.00345	0.0125039
AT4G31050	17.4179	12.47	-0.48210923	0.0005	0.00230701
AT4G31210	9.94373	12.7513	0.358785309	0.0008	0.00349363
AT4G31240	7.28567	26.8058	1.879411636	0.00005	0.000282578
AT4G31290	70.1318	57.835	-0.278125924	0.0069	0.0225733
AT4G31300	112.616	88.0536	-0.35495792	0.0004	0.00188925
AT4G31330	1.82144	9.19232	2.335349549	0.00005	0.000282578
AT4G31340	105.601	87.1637	-0.276824153	0.0053	0.0180196
AT4G31350	11.8463	16.3043	0.460815975	0.00015	0.000779873
AT4G31390	21.9963	37.686	0.776767807	0.00005	0.000282578
AT4G31450	21.7381	16.4805	-0.399465835	0.00025	0.00123846
AT4G31500	121.677	230.997	0.924817627	0.00005	0.000282578
AT4G31510	16.5966	21.9804	0.405329921	0.0014	0.00571151
AT4G31590	19.7383	14.6623	-0.428886311	0.00005	0.000282578
AT4G31670	9.13811	11.8563	0.375686144	0.0021	0.00813349
AT4G31700	274.927	162.85	-0.755504878	0.00005	0.000282578
AT4G31720	38.6025	25.769	-0.583057731	0.00005	0.000282578
AT4G31800	6.12444	19.7804	1.691421761	0.00005	0.000282578

AT4G31805	4.57822	1.80224	-1.344995647	0.0008	0.00349363
AT4G31840	46.5436	23.3928	-0.992518248	0.00005	0.000282578
AT4G31860	26.2088	40.1714	0.616117441	0.00055	0.00251246
AT4G31870	2.0145	0.974341	-1.047923125	0.0028	0.0104493
AT4G31875	7.35111	4.63413	-0.665663594	0.0169	0.0480113
AT4G31910	19.3215	33.6848	0.801890633	0.00005	0.000282578
AT4G31920	13.3667	9.46042	-0.498667194	0.00005	0.000282578
AT4G31970	0.305527	1.79055	2.551031021	0.00005	0.000282578
AT4G31990	98.1542	76.0719	-0.367686363	0.0002	0.00101248
AT4G32000	5.68195	3.93369	-0.530502868	0.00145	0.00588787
AT4G32010	10.6078	16.7231	0.656716828	0.00005	0.000282578
AT4G32040	34.8148	26.7685	-0.379164437	0.00025	0.00123846
AT4G32070	17.1883	23.8785	0.474285349	0.00005	0.000282578
AT4G32150	125.312	208.724	0.736071922	0.00005	0.000282578
AT4G32160	11.8165	14.3117	0.276392273	0.00885	0.0278636
AT4G32190	18.017	12.7558	-0.498205426	0.00005	0.000282578
AT4G32200	1.19057	5.1963	2.125832278	0.00005	0.000282578
AT4G32240	34.8291	61.1387	0.811792683	0.00005	0.000282578
AT4G32260	1050.28	669.493	-0.649633119	0.00005	0.000282578
AT4G32270	19.391	28.9283	0.577094339	0.00005	0.000282578
AT4G32272	5.18636	7.49039	0.530318486	0.00035	0.00167549
AT4G32280	3.09225	0.905765	-1.771448264	0.00005	0.000282578
AT4G32290	11.7226	19.1861	0.710768896	0.00005	0.000282578
AT4G32300	19.209	15.2265	-0.335198057	0.0016	0.00641937
AT4G32320	21.5027	27.2531	0.34190252	0.00305	0.0112447
AT4G32330	66.6707	44.6318	-0.578980883	0.0076	0.024527
AT4G32410	156.106	111.265	-0.488526145	0.00005	0.000282578
AT4G32460	55.3584	14.5338	-1.929390287	0.00005	0.000282578
AT4G32470	186.431	156.823	-0.249504609	0.01405	0.041168
AT4G32480	32.5595	137.181	2.074930227	0.00005	0.000282578
AT4G32570	52.5101	28.3058	-0.891497244	0.00005	0.000282578
AT4G32605	12.9387	16.512	0.351822204	0.01265	0.03769
AT4G32670	4.35791	9.78797	1.167373278	0.00005	0.000282578
AT4G32730	8.5076	11.3953	0.421614797	0.001	0.00425239
AT4G32770	15.4872	9.52079	-0.701923143	0.00005	0.000282578
AT4G32800	4.29021	2.09526	-1.033918989	0.00005	0.000282578
AT4G32810	0.556158	2.21986	1.996901989	0.00245	0.0092976
AT4G32830	11.4257	5.20985	-1.132968815	0.00005	0.000282578
AT4G32840	6.17161	3.25615	-0.922479736	0.00005	0.000282578
AT4G32890	11.4614	8.01922	-0.515249456	0.00045	0.00210009
AT4G32915	39.1836	27.2635	-0.523279169	0.00005	0.000282578
AT4G32920	5.03846	11.3054	1.165957289	0.00005	0.000282578
AT4G32940	112.699	300.059	1.412771489	0.00005	0.000282578
AT4G33030	102.109	444.854	2.123221892	0.00005	0.000282578
AT4G33040	3.16298	13.3138	2.073566063	0.00005	0.000282578
AT4G33050	15.6814	40.4857	1.368358056	0.00005	0.000282578
AT4G33070	2.87665	6.79401	1.239873642	0.00005	0.000282578

AT4G33080	30.5679	41.2627	0.432820783	0.00005	0.000282578
AT4G33090	66.4536	50.3216	-0.401169563	0.00005	0.000282578
AT4G33110	49.4899	29.6407	-0.739554608	0.00005	0.000282578
AT4G33140	7.65389	14.0582	0.877146813	0.00005	0.000282578
AT4G33150	35.333	42.317	0.260221105	0.0128	0.0380767
AT4G33160	4.02854	6.73741	0.741937016	0.00005	0.000282578
AT4G33200	12.4356	10.1611	-0.291419526	0.0059	0.019741
AT4G33220	113.916	34.724	-1.713965342	0.00005	0.000282578
AT4G33260	11.9009	6.48285	-0.876370583	0.00005	0.000282578
AT4G33270	22.9061	9.80382	-1.224315944	0.00005	0.000282578
AT4G33280	0.237116	1.06039	2.160930049	0.0014	0.00571151
AT4G33330	2.39847	3.743	0.642080654	0.00045	0.00210009
AT4G33350	49.1946	39.7757	-0.306612642	0.01005	0.0310377
AT4G33360	36.4799	29.0166	-0.330223292	0.00265	0.00995735
AT4G33400	7.85779	4.36272	-0.848895728	0.00005	0.000282578
AT4G33420	17.5617	27.3955	0.641506428	0.00635	0.0210292
AT4G33440	3.73031	6.83732	0.87413542	0.00005	0.000282578
AT4G33467	10.8239	0.184312	-5.875926602	0.00505	0.0172987
AT4G33470	33.2118	22.8485	-0.53959646	0.00005	0.000282578
AT4G33480	34.3867	26.0057	-0.403022799	0.0156	0.0449239
AT4G33495	6.65503	11.5565	0.796187455	0.0048	0.0165649
AT4G33520	43.3892	35.5549	-0.287287588	0.014	0.041048
AT4G33530	34.228	23.3959	-0.548921268	0.00005	0.000282578
AT4G33560	7.9164	11.0873	0.485991665	0.0127	0.0378086
AT4G33580	83.4041	55.2709	-0.593598201	0.00005	0.000282578
AT4G33610	44.4747	57.6859	0.375233854	0.001	0.00425239
AT4G33625	159.267	69.0348	-1.206051669	0.00005	0.000282578
AT4G33630	49.2657	40.2867	-0.290279921	0.01115	0.0338768
AT4G33640	89.8807	60.0266	-0.582409407	0.01385	0.0406792
AT4G33660	7.30369	13.1357	0.846795646	0.00005	0.000282578
AT4G33680	98.5984	64.4105	-0.614268344	0.00005	0.000282578
AT4G33700	18.3368	34.0025	0.89089893	0.00005	0.000282578
AT4G33770	10.0978	16.1441	0.676966008	0.00005	0.000282578
AT4G33780	20.5093	26.9527	0.394151551	0.0008	0.00349363
AT4G33790	2.71885	0.811477	-1.74437445	0.00005	0.000282578
AT4G33865	83.5219	66.5919	-0.326807828	0.00425	0.0149278
AT4G33880	5.1177	7.25656	0.503790216	0.0027	0.0101192
AT4G33890	16.6545	24.8812	0.579144025	0.00005	0.000282578
AT4G33945	17.1129	12.8058	-0.41828688	0.00605	0.0201752
AT4G33970	0.172561	1.19807	2.795533856	0.00005	0.000282578
AT4G33980	13.0885	25.7034	0.973659442	0.00005	0.000282578
AT4G33985	6.06152	8.73101	0.526468942	0.01225	0.0366818
AT4G34000	25.595	35.5542	0.474157988	0.00045	0.00210009
AT4G34030	36.8921	28.3543	-0.379744374	0.0003	0.00145851
AT4G34120	115.931	84.6377	-0.453894067	0.00025	0.00123846
AT4G34135	27.9552	58.4397	1.063832106	0.00005	0.000282578
AT4G34180	64.1357	131.283	1.033480576	0.00005	0.000282578

AT4G34190	247.791	154.93	-0.67750726	0.0023	0.00880163
AT4G34200	60.1	134.783	1.165201647	0.00005	0.000282578
AT4G34210	0	0.727491	inf	0.00005	0.000282578
AT4G34215	31.3837	25.7283	-0.286659316	0.0117	0.0352839
AT4G34220	26.9911	9.78043	-1.464513974	0.00005	0.000282578
AT4G34230	38.382	69.0668	0.847562493	0.00005	0.000282578
AT4G34250	14.1786	7.55619	-0.907984204	0.00005	0.000282578
AT4G34260	32.7595	20.0878	-0.705593768	0.00005	0.000282578
AT4G34265	49.2982	36.7828	-0.422503666	0.00065	0.00291062
AT4G34290	76.3618	51.8767	-0.557764401	0.00005	0.000282578
AT4G34310	9.31882	14.2247	0.610179037	0.00005	0.000282578
AT4G34350	291.47	165.229	-0.818880477	0.00005	0.000282578
AT4G34370	12.3143	16.7482	0.44367143	0.0001	0.000537698
AT4G34450	88.7935	67.922	-0.38657513	0.00015	0.000779873
AT4G34480	24.9659	36.6461	0.553700755	0.00005	0.000282578
AT4G34510	0.688012	1.40295	1.02795796	0.00095	0.00406118
AT4G34560	12.6779	19.2708	0.604100671	0.00005	0.000282578
AT4G34590	10.432	25.049	1.263737235	0.00005	0.000282578
AT4G34600	31.9684	22.9527	-0.477982667	0.0003	0.00145851
AT4G34610	19.911	10.8784	-0.8720993	0.00005	0.000282578
AT4G34620	814.395	656.334	-0.311298533	0.0022	0.00846997
AT4G34630	15.1395	35.6996	1.23759035	0.00005	0.000282578
AT4G34640	62.5062	48.5911	-0.363307206	0.00005	0.000282578
AT4G34650	6.61157	3.31748	-0.99490513	0.00425	0.0149278
AT4G34680	6.65594	9.62525	0.532181584	0.0004	0.00188925
AT4G34700	147.436	119.656	-0.301196095	0.00205	0.00796423
AT4G34710	125.381	420.054	1.744256064	0.00005	0.000282578
AT4G34720	190.057	144.004	-0.400323276	0.00005	0.000282578
AT4G34730	43.3377	13.6693	-1.664683224	0.00005	0.000282578
AT4G34740	19.4991	9.18243	-1.086459638	0.00005	0.000282578
AT4G34750	8.39633	4.42032	-0.925608055	0.00005	0.000282578
AT4G34760	17.817	9.45592	-0.913964703	0.00005	0.000282578
AT4G34770	8.12748	4.42136	-0.878317893	0.00065	0.00291062
AT4G34790	4.54224	2.5697	-0.821803995	0.0056	0.0188774
AT4G34870	253.014	187.153	-0.434999041	0.00005	0.000282578
AT4G34881	220.758	129.138	-0.773552131	0.00005	0.000282578
AT4G34900	10.5877	4.03631	-1.391280335	0.00005	0.000282578
AT4G34990	1.93675	5.20187	1.425392606	0.00005	0.000282578
AT4G35050	9.02839	16.4375	0.864450249	0.0001	0.000537698
AT4G35100	639.766	360.437	-0.827797207	0.00005	0.000282578
AT4G35130	0.802539	1.70458	1.086772902	0.00005	0.000282578
AT4G35160	31.391	21.1009	-0.573046454	0.00005	0.000282578
AT4G35180	0.269914	2.16206	3.001834846	0.00005	0.000282578
AT4G35190	0.532785	7.7399	3.860689556	0.00005	0.000282578
AT4G35200	0.380083	1.29457	1.768086573	0.00765	0.024665
AT4G35220	24.214	29.2539	0.272787548	0.0168	0.0477826
AT4G35250	144.913	46.3549	-1.64439327	0.00005	0.000282578

AT4G35260	63.9888	44.9686	-0.508901442	0.00005	0.000282578
AT4G35270	6.71818	9.68455	0.527614564	0.00005	0.000282578
AT4G35290	1.18914	2.19548	0.884617815	0.00005	0.000282578
AT4G35310	49.749	38.8129	-0.358131295	0.00025	0.00123846
AT4G35420	5.73417	9.3832	0.71049534	0.0026	0.00979559
AT4G35450	214.922	149.322	-0.525386431	0.00005	0.000282578
AT4G35460	16.9239	13.2984	-0.347809388	0.00345	0.0125039
AT4G35470	22.8692	14.2064	-0.686864887	0.00005	0.000282578
AT4G35480	21.105	13.1219	-0.685608198	0.00005	0.000282578
AT4G35500	5.01525	7.43312	0.567646281	0.0005	0.00230701
AT4G35530	7.68699	10.2348	0.412992214	0.00635	0.0210292
AT4G35560	6.18064	4.22528	-0.548709287	0.00005	0.000282578
AT4G35580	18.5307	23.176	0.322714209	0.00305	0.0112447
AT4G35600	12.0891	15.7932	0.385596674	0.0013	0.00534838
AT4G35620	5.06115	3.39913	-0.574299694	0.00135	0.00552942
AT4G35630	31.7507	66.8591	1.074335536	0.00005	0.000282578
AT4G35640	0.900938	3.094	1.779973464	0.00385	0.0137217
AT4G35730	10.0818	4.12002	-1.291029994	0.00005	0.000282578
AT4G35750	270.684	678.73	1.326228169	0.00005	0.000282578
AT4G35770	229.232	119.429	-0.940655256	0.00005	0.000282578
AT4G35780	22.0415	17.6275	-0.322394527	0.0026	0.00979559
AT4G35790	65.4387	49.7222	-0.396253957	0.00005	0.000282578
AT4G35810	3.21122	0.599649	-2.420931325	0.00005	0.000282578
AT4G35830	239.46	132.376	-0.855143102	0.00005	0.000282578
AT4G35860	60.0668	46.664	-0.364257828	0.00725	0.0235462
AT4G35880	8.57028	10.8784	0.344052135	0.0068	0.0222907
AT4G35900	3.69006	5.46388	0.566281524	0.00165	0.00658915
AT4G35905	6.8992	4.59556	-0.586188409	0.0025	0.00945953
AT4G35987	6.10122	4.38755	-0.475682187	0.00535	0.0181609
AT4G36010	6.31935	11.4462	0.857020643	0.00005	0.000282578
AT4G36030	14.3863	11.3224	-0.345515797	0.00225	0.00863481
AT4G36040	212.378	148.687	-0.514355812	0.00005	0.000282578
AT4G36230	2.64102	1.25812	-1.069825693	0.00155	0.00624225
AT4G36250	86.8129	59.1192	-0.554282689	0.00005	0.000282578
AT4G36350	0.584241	1.89545	1.69790489	0.0001	0.000537698
AT4G36380	14.7132	11.6819	-0.332836115	0.003	0.0110887
AT4G36390	46.2019	37.6541	-0.295145219	0.0145	0.0422563
AT4G36410	31.5909	24.614	-0.360029911	0.0124	0.037054
AT4G36430	5.11325	17.0693	1.739091426	0.00005	0.000282578
AT4G36470	4.7728	7.99345	0.743982427	0.00005	0.000282578
AT4G36480	19.8276	15.4961	-0.35560489	0.00145	0.00588787
AT4G36515	4.93697	10.1468	1.039327032	0.00005	0.000282578
AT4G36520	9.98467	15.1705	0.603481984	0.00005	0.000282578
AT4G36530	49.0666	31.9402	-0.619367959	0.00005	0.000282578
AT4G36540	56.8735	23.4643	-1.277289169	0.00005	0.000282578
AT4G36570	14.6382	10.4679	-0.483766115	0.00465	0.0161167
AT4G36580	2.39823	4.63962	0.952036623	0.00005	0.000282578

AT4G36610	5.17727	11.9664	1.20872573	0.00005	0.000282578
AT4G36640	16.9805	23.8367	0.48930558	0.00005	0.000282578
AT4G36660	23.9556	17.7713	-0.430813727	0.00115	0.00480526
AT4G36670	95.1428	21.4036	-2.152241011	0.00005	0.000282578
AT4G36710	5.01531	7.09576	0.500618337	0.00065	0.00291062
AT4G36795	12.362	0	-inf	0.01605	0.0460241
AT4G36800	108.407	70.3127	-0.624600717	0.00005	0.000282578
AT4G36810	51.0781	41.4969	-0.299701296	0.00395	0.0140308
AT4G36830	2.62019	6.04826	1.206848728	0.00005	0.000282578
AT4G36850	41.975	26.6598	-0.654864368	0.00005	0.000282578
AT4G36910	10.4141	17.5632	0.754017561	0.00005	0.000282578
AT4G36930	3.78114	7.99546	1.080359771	0.00005	0.000282578
AT4G36940	16.3749	12.9111	-0.342874176	0.00685	0.0224336
AT4G36970	27.3952	17.3263	-0.660959534	0.00005	0.000282578
AT4G36990	22.963	65.6234	1.514899208	0.00005	0.000282578
AT4G37030	1.29082	1.98567	0.621338044	0.00545	0.0184447
AT4G37040	52.0421	38.8112	-0.423206138	0.00005	0.000282578
AT4G37070	36.9736	25.7185	-0.523689019	0.00005	0.000282578
AT4G37080	19.3238	13.2795	-0.541177999	0.00005	0.000282578
AT4G37090	16.2725	21.0005	0.367987763	0.0073	0.0236941
AT4G37100	6.68728	8.80121	0.396282356	0.00095	0.00406118
AT4G37110	10.576	6.65749	-0.66774382	0.00005	0.000282578
AT4G37120	59.0901	49.8252	-0.246040844	0.01435	0.0418949
AT4G37150	6.98377	10.255	0.55424954	0.0006	0.00271108
AT4G37170	0.959281	1.54929	0.691581829	0.00475	0.0164173
AT4G37180	26.5276	18.2752	-0.537606963	0.00005	0.000282578
AT4G37200	75.7416	57.1701	-0.405825084	0.001	0.00425239
AT4G37210	18.1167	11.0912	-0.707904724	0.00005	0.000282578
AT4G37220	13.3767	5.06627	-1.40072638	0.00005	0.000282578
AT4G37250	12.5215	9.8361	-0.348249091	0.0024	0.0091296
AT4G37260	70.6614	37.489	-0.91445499	0.00005	0.000282578
AT4G37280	23.9814	19.5462	-0.295027725	0.013	0.0385744
AT4G37295	0.870005	2.22028	1.351646029	0.0038	0.0135703
AT4G37300	191.557	77.7609	-1.300656925	0.00005	0.000282578
AT4G37310	15.4478	28.7734	0.897334316	0.00225	0.00863481
AT4G37320	7.64093	11.1021	0.539012444	0.00005	0.000282578
AT4G37370	6.19522	12.4764	1.009974292	0.00005	0.000282578
AT4G37380	3.19499	6.2468	0.967305925	0.00005	0.000282578
AT4G37390	6.50558	5.07819	-0.357363311	0.01235	0.0369298
AT4G37410	241.867	329.511	0.446112684	0.00005	0.000282578
AT4G37445	5.26512	2.3477	-1.165218347	0.00305	0.0112447
AT4G37450	58.7087	46.031	-0.350968526	0.0012	0.00498818
AT4G37490	5.31993	1.81833	-1.548793212	0.00005	0.000282578
AT4G37510	75.8959	55.8523	-0.442405259	0.00005	0.000282578
AT4G37520	47.176	87.745	0.895263819	0.00005	0.000282578
AT4G37530	20.0616	29.8241	0.572041931	0.00005	0.000282578
AT4G37540	50.8618	28.2024	-0.85076458	0.00005	0.000282578



AT4G37550	26.4619	15.0051	-0.818463719	0.00005	0.000282578
AT4G37560	10.0465	13.3184	0.406727793	0.0016	0.00641937
AT4G37590	21.1007	28.8101	0.449283808	0.00005	0.000282578
AT4G37610	19.8977	40.7975	1.035879072	0.00005	0.000282578
AT4G37630	3.73447	2.45554	-0.604863185	0.002	0.00779418
AT4G37640	14.0282	17.9608	0.356521707	0.0004	0.00188925
AT4G37680	31.693	65.1994	1.040694459	0.00005	0.000282578
AT4G37700	4.99991	7.30493	0.546968322	0.0108	0.0329645
AT4G37740	7.87721	3.84145	-1.036033762	0.00005	0.000282578
AT4G37790	18.5081	29.8739	0.690728793	0.00005	0.000282578
AT4G37900	1.25212	2.67096	1.092985537	0.00005	0.000282578
AT4G37925	56.749	134.06	1.240211964	0.00005	0.000282578
AT4G37930	1310.48	845.81	-0.631689813	0.00005	0.000282578
AT4G37970	0.778459	1.49531	0.941751645	0.00555	0.0187351
AT4G37980	44.9015	63.1018	0.490917518	0.00005	0.000282578
AT4G37990	0.368301	1.6316	2.147330193	0.00005	0.000282578
AT4G38010	0.590155	1.69736	1.524126761	0.00005	0.000282578
AT4G38020	7.88056	13.1574	0.739504372	0.00005	0.000282578
AT4G38060	12.3579	31.9661	1.371109136	0.00005	0.000282578
AT4G38062	2.26118	1.13992	-0.988143263	0.00005	0.000282578
AT4G38100	23.9147	34.603	0.532999428	0.0001	0.000537698
AT4G38130	79.313	50.2578	-0.658209834	0.00005	0.000282578
AT4G38140	0	0.69861	inf	0.00005	0.000282578
AT4G38210	4.04943	6.90101	0.769088676	0.00025	0.00123846
AT4G38270	13.0349	17.4163	0.418058649	0.00025	0.00123846
AT4G38400	12.896	6.9461	-0.892648563	0.00005	0.000282578
AT4G38420	31.9098	17.885	-0.835249448	0.00005	0.000282578
AT4G38440	5.24489	8.5492	0.704876909	0.00005	0.000282578
AT4G38470	82.1844	58.8452	-0.481939832	0.00005	0.000282578
AT4G38540	39.9828	59.9047	0.583289691	0.00005	0.000282578
AT4G38560	0.307971	3.41136	3.469480599	0.0004	0.00188925
AT4G38570	14.1524	10.4478	-0.437847545	0.01375	0.0404397
AT4G38580	50.0041	33.1431	-0.593337841	0.00005	0.000282578
AT4G38620	12.9492	19.1751	0.56637113	0.00005	0.000282578
AT4G38630	73.0148	53.3084	-0.453826044	0.00005	0.000282578
AT4G38650	3.54534	2.29995	-0.624321491	0.0007	0.00310863
AT4G38680	78.1458	52.6547	-0.569606024	0.00005	0.000282578
AT4G38690	66.9744	31.9094	-1.06962827	0.00005	0.000282578
AT4G38740	172.301	345.502	1.003762987	0.00005	0.000282578
AT4G38770	1287.04	516.749	-1.316521295	0.00005	0.000282578
AT4G38780	0.445672	1.26863	1.509217134	0.00005	0.000282578
AT4G38800	118.761	164.902	0.47354775	0.00005	0.000282578
AT4G38840	66.5715	34.9487	-0.929665884	0.00005	0.000282578
AT4G38850	4.03331	0.924654	-2.124978772	0.0002	0.00101248
AT4G38860	44.7411	15.49	-1.530263583	0.00005	0.000282578
AT4G38950	12.668	6.38316	-0.988846057	0.00005	0.000282578
AT4G38960	2.72401	1.01891	-1.418705375	0.00005	0.000282578

AT4G38970	1521.84	1107.11	-0.459018116	0.00045	0.00210009
AT4G39030	6.3806	10.563	0.727255634	0.00455	0.015822
AT4G39040	73.4145	54.8902	-0.41951644	0.0008	0.00349363
AT4G39070	1.87542	4.0225	1.100878698	0.00005	0.000282578
AT4G39080	136.715	95.9445	-0.510899529	0.00005	0.000282578
AT4G39100	33.2668	46.1685	0.472825763	0.00005	0.000282578
AT4G39140	12.9569	18.5534	0.517963004	0.00005	0.000282578
AT4G39150	46.5251	37.5091	-0.310768604	0.00315	0.0115529
AT4G39160	9.6942	13.7808	0.507465889	0.00005	0.000282578
AT4G39170	36.2631	26.8321	-0.43454229	0.0002	0.00101248
AT4G39190	4.57206	7.84159	0.778301876	0.00005	0.000282578
AT4G39200	297.954	203.047	-0.553275904	0.00005	0.000282578
AT4G39210	6.72909	13.194	0.971398688	0.00005	0.000282578
AT4G39250	1.87045	0.151777	-3.623360312	0.0089	0.0279995
AT4G39270	13.7427	16.4907	0.262987165	0.0132	0.0390601
AT4G39330	166.29	110.823	-0.585444087	0.00005	0.000282578
AT4G39350	58.2458	41.0541	-0.504627715	0.00005	0.000282578
AT4G39360	0.352468	1.40016	1.990027509	0.00555	0.0187351
AT4G39370	5.9625	4.44393	-0.424081269	0.01175	0.0354077
AT4G39410	0.934731	0.431389	-1.115561852	0.014	0.041048
AT4G39510	8.2124	6.50255	-0.336798311	0.0144	0.0420158
AT4G39520	34.8086	41.5391	0.255026168	0.01205	0.0361766
AT4G39530	0.752055	1.34542	0.83914653	0.0011	0.00462106
AT4G39550	2.86047	4.37507	0.613053886	0.0024	0.0091296
AT4G39620	12.0849	8.79843	-0.457887519	0.0005	0.00230701
AT4G39630	4.40473	2.31979	-0.925059377	0.00105	0.00443869
AT4G39640	42.724	23.2688	-0.876649913	0.00005	0.000282578
AT4G39660	35.4767	21.4193	-0.727960486	0.00005	0.000282578
AT4G39670	1.61672	3.192	0.981390812	0.00035	0.00167549
AT4G39710	85.8734	46.1189	-0.896853211	0.00005	0.000282578
AT4G39730	157.516	205.631	0.384559394	0.00005	0.000282578
AT4G39770	10.5255	4.58265	-1.199634759	0.00005	0.000282578
AT4G39800	47.6821	70.6563	0.567370427	0.00005	0.000282578
AT4G39830	1.32855	4.10747	1.628397513	0.00005	0.000282578
AT4G39850	16.308	23.5253	0.528633259	0.00005	0.000282578
AT4G39860	18.3034	13.6093	-0.427518802	0.00145	0.00588787
AT4G39900	30.874	25.2048	-0.292693902	0.00955	0.0297233
AT4G39940	52.4276	101.885	0.958543257	0.00005	0.000282578
AT4G39950	49.5961	77.9726	0.652740564	0.00005	0.000282578
AT4G39952	0.73796	1.90626	1.369130381	0.00005	0.000282578
AT4G39955	7.05508	14.9971	1.087949205	0.00005	0.000282578
AT4G39970	90.9163	53.5853	-0.76270169	0.00005	0.000282578
AT4G39990	53.2817	39.5536	-0.429831105	0.00035	0.00167549
AT4G40010	5.25311	2.26436	-1.214068451	0.00005	0.000282578
AT4G40020	0.185869	0.917804	2.303899923	0.0001	0.000537698
AT4G40042	25.6806	38.0009	0.565354677	0.01035	0.0318215
AT4G40045	33.3595	22.9197	-0.541509505	0.00015	0.000779873

AT4G40060	64.2512	98.6149	0.618082245	0.00005	0.000282578
AT4G40070	6.0459	2.23924	-1.432947953	0.00005	0.000282578
AT4G40090	79.198	65.6081	-0.271590057	0.01125	0.0341282
AT5G01020	65.2304	49.3994	-0.401050956	0.00005	0.000282578
AT5G01040	23.2849	15.3182	-0.604147906	0.00005	0.000282578
AT5G01050	4.44098	2.7194	-0.707589699	0.00015	0.000779873
AT5G01075	24.5269	11.0898	-1.145131553	0.00005	0.000282578
AT5G01100	1.19092	2.04417	0.779438677	0.00065	0.00291062
AT5G01160	15.155	11.9435	-0.343568177	0.0045	0.0156801
AT5G01180	4.83698	1.32669	-1.866275269	0.00005	0.000282578
AT5G01200	3.05021	6.84586	1.166323217	0.00005	0.000282578
AT5G01210	74.32	62.1179	-0.258741444	0.0095	0.029588
AT5G01220	101.424	392.544	1.952455296	0.00005	0.000282578
AT5G01240	48.9676	35.5794	-0.460785307	0.00005	0.000282578
AT5G01260	10.2113	13.4875	0.401456412	0.0016	0.00641937
AT5G01270	14.2883	17.9563	0.329655828	0.0014	0.00571151
AT5G01280	0.583251	1.23244	1.079328631	0.0028	0.0104493
AT5G01320	0.313505	1.3466	2.102761012	0.0001	0.000537698
AT5G01350	61.2026	83.257	0.443978632	0.00005	0.000282578
AT5G01370	5.21127	3.01431	-0.789807209	0.0001	0.000537698
AT5G01400	9.94779	11.9143	0.260246234	0.0125	0.0373138
AT5G01420	1.04026	0.417858	-1.315859495	0.00345	0.0125039
AT5G01430	16.6392	21.7399	0.385759233	0.00295	0.0109262
AT5G01460	31.5886	22.3887	-0.496633238	0.00005	0.000282578
AT5G01520	14.2239	9.56899	-0.571878524	0.00005	0.000282578
AT5G01530	4100.63	1074.92	-1.931616283	0.00005	0.000282578
AT5G01540	2.26364	7.58636	1.744763298	0.00005	0.000282578
AT5G01550	1.04895	3.92077	1.902191102	0.00005	0.000282578
AT5G01590	84.5667	55.0908	-0.618278269	0.00005	0.000282578
AT5G01600	206.616	282.238	0.449960264	0.00005	0.000282578
AT5G01610	12.836	9.18903	-0.482211212	0.0047	0.0162675
AT5G01640	2.08428	3.92368	0.912658285	0.0006	0.00271108
AT5G01650	80.62	96.5226	0.259728994	0.0165	0.0470756
AT5G01670	4.44868	9.87767	1.150793444	0.00005	0.000282578
AT5G01710	38.5176	50.8592	0.400990956	0.0001	0.000537698
AT5G01720	22.1849	33.1921	0.581261859	0.00005	0.000282578
AT5G01740	16.9572	40.9564	1.272190941	0.00005	0.000282578
AT5G01750	326.332	160.087	-1.027484307	0.00005	0.000282578
AT5G01770	3.1089	4.91086	0.659571482	0.00005	0.000282578
AT5G01800	67.9732	91.0497	0.421688221	0.00015	0.000779873
AT5G01820	24.9778	49.6636	0.99154243	0.00005	0.000282578
AT5G01850	3.79177	6.32096	0.737272229	0.00005	0.000282578
AT5G01870	29.5331	12.8535	-1.200171542	0.00005	0.000282578
AT5G01890	6.13996	8.83454	0.524925761	0.00005	0.000282578
AT5G01900	0.252118	1.94657	2.948763198	0.00065	0.00291062
AT5G01910	4.02169	2.3807	-0.756416047	0.00205	0.00796423
AT5G02030	6.82775	15.4568	1.178759531	0.00005	0.000282578

AT5G02120	238.011	124.763	-0.931838102	0.00005	0.000282578
AT5G02160	912.965	205.2	-2.153528822	0.00005	0.000282578
AT5G02170	2.79585	1.62957	-0.778795635	0.0003	0.00145851
AT5G02180	16.5752	6.65147	-1.317281156	0.00005	0.000282578
AT5G02190	6.68224	2.92536	-1.191717623	0.00005	0.000282578
AT5G02200	5.61504	12.9324	1.203621831	0.00005	0.000282578
AT5G02230	14.6474	22.4737	0.617593064	0.00005	0.000282578
AT5G02260	14.4906	11.4426	-0.340702432	0.01085	0.033099
AT5G02270	21.8311	32.344	0.567113284	0.00005	0.000282578
AT5G02310	17.1874	20.5995	0.261258	0.0124	0.037054
AT5G02370	6.19922	3.2579	-0.928144382	0.00005	0.000282578
AT5G02400	3.41757	2.38201	-0.520791418	0.00235	0.00897001
AT5G02420	5.17552	7.52517	0.540020352	0.01205	0.0361766
AT5G02430	1.40829	2.91227	1.048199666	0.00005	0.000282578
AT5G02450	180.892	131.225	-0.463086008	0.00005	0.000282578
AT5G02460	2.05307	3.75393	0.870618931	0.00005	0.000282578
AT5G02490	4.68797	41.323	3.139909753	0.00005	0.000282578
AT5G02540	16.6197	6.59365	-1.333745127	0.00005	0.000282578
AT5G02590	13.3107	8.30649	-0.68027556	0.0069	0.0225733
AT5G02610	67.7725	83.3477	0.298442398	0.005	0.0171523
AT5G02620	13.3382	19.3483	0.536642826	0.00005	0.000282578
AT5G02760	38.8799	18.22	-1.093501549	0.00005	0.000282578
AT5G02780	1.76392	5.76147	1.707651821	0.00005	0.000282578
AT5G02810	130.412	36.5269	-1.836045403	0.00005	0.000282578
AT5G02820	13.6655	6.41331	-1.091397197	0.0003	0.00145851
AT5G02830	21.5815	28.9566	0.424097074	0.0009	0.00387377
AT5G02840	57.6583	41.4485	-0.476208409	0.00005	0.000282578
AT5G02860	14.348	10.6628	-0.428263318	0.00015	0.000779873
AT5G02970	8.90346	12.9033	0.53530208	0.00005	0.000282578
AT5G03040	119.279	68.9258	-0.791224055	0.00005	0.000282578
AT5G03050	6.87773	2.41881	-1.507635032	0.00005	0.000282578
AT5G03120	25.25	8.88365	-1.507058928	0.00005	0.000282578
AT5G03150	11.5181	7.16187	-0.685494516	0.00005	0.000282578
AT5G03160	19.4644	26.5686	0.448884335	0.00055	0.00251246
AT5G03220	17.9426	12.5709	-0.51330102	0.00105	0.00443869
AT5G03230	28.6478	19.6892	-0.541019858	0.00005	0.000282578
AT5G03260	12.0621	8.35859	-0.529149599	0.0001	0.000537698
AT5G03300	61.139	45.6543	-0.421342207	0.00005	0.000282578
AT5G03340	17.2345	21.2077	0.299288723	0.0148	0.0429916
AT5G03350	7.84712	43.5669	2.472997295	0.00005	0.000282578
AT5G03380	78.7723	109.789	0.478973209	0.00005	0.000282578
AT5G03455	68.0909	144.997	1.090489144	0.00005	0.000282578
AT5G03495	1.97343	1.00921	-0.967478939	0.0024	0.0091296
AT5G03520	80.6036	51.2749	-0.652591502	0.00005	0.000282578
AT5G03545	268.077	1291.24	2.268037824	0.00005	0.000282578
AT5G03555	13.4673	21.3213	0.662834764	0.00005	0.000282578
AT5G03560	11.0072	26.1271	1.247099476	0.00005	0.000282578

AT5G03570	1.79698	0.949841	-0.919816415	0.00125	0.00516712
AT5G03610	29.0804	41.2584	0.504640761	0.00005	0.000282578
AT5G03630	121.611	175.011	0.525171873	0.00005	0.000282578
AT5G03650	65.64	43.9279	-0.579437707	0.00005	0.000282578
AT5G03670	5.00239	3.68088	-0.442566821	0.00495	0.0169989
AT5G03700	12.2609	8.56181	-0.518077157	0.00005	0.000282578
AT5G03720	1.96634	7.00352	1.832567409	0.00005	0.000282578
AT5G03740	31.8296	43.1032	0.437425953	0.00005	0.000282578
AT5G03800	2.83691	3.6874	0.378283543	0.0133	0.0393076
AT5G03850	77.8401	62.0968	-0.325994639	0.00165	0.00658915
AT5G03860	1.80461	0.781745	-1.206917093	0.00005	0.000282578
AT5G03870	3.85232	2.17329	-0.82584685	0.0001	0.000537698
AT5G03890	2.04946	0.83648	-1.292840881	0.0023	0.00880163
AT5G03900	42.2069	24.8626	-0.763501697	0.00005	0.000282578
AT5G03910	23.4175	15.655	-0.580963557	0.00005	0.000282578
AT5G03940	95.7036	57.6031	-0.73242674	0.00005	0.000282578
AT5G03970	5.49911	10.1652	0.88636855	0.00005	0.000282578
AT5G03990	4.98512	8.36899	0.747425291	0.0001	0.000537698
AT5G04020	8.57168	7.09959	-0.27184228	0.0122	0.0365526
AT5G04120	10.7205	25.5998	1.255760345	0.00005	0.000282578
AT5G04130	10.8341	15.9101	0.554363591	0.006	0.0200297
AT5G04160	16.073	9.29109	-0.790719467	0.00005	0.000282578
AT5G04170	68.97	49.9194	-0.466368373	0.00005	0.000282578
AT5G04190	5.98449	2.38087	-1.329739457	0.00005	0.000282578
AT5G04200	12.2532	15.4738	0.336668965	0.0122	0.0365526
AT5G04220	12.5432	6.56041	-0.935047567	0.00005	0.000282578
AT5G04230	14.5689	8.22904	-0.824095913	0.00005	0.000282578
AT5G04250	2.71119	5.38074	0.988878376	0.00215	0.00830066
AT5G04270	6.05541	3.55403	-0.768768786	0.00025	0.00123846
AT5G04340	10.6447	23.1857	1.123099993	0.00005	0.000282578
AT5G04360	19.5033	13.0766	-0.576730772	0.00005	0.000282578
AT5G04390	0.875606	1.91707	1.130549271	0.0005	0.00230701
AT5G04410	33.6025	43.8396	0.383666063	0.0022	0.00846997
AT5G04420	22.8188	16.3259	-0.483060399	0.01325	0.0391853
AT5G04430	120.964	87.2571	-0.471233321	0.00005	0.000282578
AT5G04490	33.607	13.9489	-1.268610406	0.00005	0.000282578
AT5G04510	21.3951	16.5011	-0.374718221	0.00175	0.00694124
AT5G04530	48.6556	24.1793	-1.008833382	0.00005	0.000282578
AT5G04620	9.6182	3.3382	-1.526696533	0.00005	0.000282578
AT5G04700	0.73815	1.57705	1.095242479	0.00005	0.000282578
AT5G04720	16.5609	28.8429	0.800435149	0.00005	0.000282578
AT5G04760	15.0715	24.1005	0.677240068	0.0027	0.0101192
AT5G04770	9.65813	5.10028	-0.921167431	0.00005	0.000282578
AT5G04780	2.24912	4.29342	0.932766673	0.00005	0.000282578
AT5G04820	14.6696	7.10271	-1.046388046	0.00005	0.000282578
AT5G04830	40.5872	64.1459	0.66033224	0.00005	0.000282578
AT5G04870	27.8949	20.1218	-0.471242012	0.00005	0.000282578

AT5G04890	7.06359	5.25828	-0.425810639	0.0124	0.037054
AT5G04930	18.3373	23.3559	0.349005808	0.00035	0.00167549
AT5G04950	63.8659	44.3999	-0.52448941	0.00005	0.000282578
AT5G05010	92.3814	76.6135	-0.270003779	0.00855	0.0270622
AT5G05080	76.44	63.5363	-0.2667467	0.00845	0.0267941
AT5G05090	12.5833	8.65303	-0.540233012	0.0001	0.000537698
AT5G05110	27.563	57.5992	1.063315852	0.00005	0.000282578
AT5G05170	173.162	119.609	-0.533796419	0.00005	0.000282578
AT5G05180	12.5524	9.64731	-0.379764601	0.0026	0.00979559
AT5G05200	122.921	86.7155	-0.503369612	0.00005	0.000282578
AT5G05240	3.65528	1.83283	-0.995908945	0.0022	0.00846997
AT5G05250	6.24378	8.59823	0.461619998	0.0022	0.00846997
AT5G05270	11.2959	22.9639	1.023568456	0.00005	0.000282578
AT5G05320	3.94065	8.45198	1.100855735	0.00005	0.000282578
AT5G05340	2.2689	6.97362	1.619914728	0.00005	0.000282578
AT5G05365	3.1517	9.36055	1.570463085	0.0115	0.0347817
AT5G05380	8.24807	11.306	0.45496012	0.00695	0.0227126
AT5G05390	0.088803	0.645493	2.86172113	0.0049	0.016855
AT5G05410	7.06566	14.2205	1.009075958	0.00005	0.000282578
AT5G05430	2.0917	4.49395	1.103308124	0.00265	0.00995735
AT5G05450	16.6809	13.0999	-0.348641331	0.00165	0.00658915
AT5G05480	7.94573	11.7617	0.565844922	0.0005	0.00230701
AT5G05510	2.52627	1.34682	-0.907451788	0.0006	0.00271108
AT5G05540	12.1483	15.1123	0.314968805	0.01015	0.0312969
AT5G05560	3.61146	5.85919	0.698119043	0.00005	0.000282578
AT5G05580	26.6584	12.179	-1.130194514	0.00005	0.000282578
AT5G05600	17.0053	36.4171	1.098631583	0.00005	0.000282578
AT5G05660	15.9911	11.6589	-0.455837504	0.00005	0.000282578
AT5G05690	122.707	77.7062	-0.659115934	0.00005	0.000282578
AT5G05730	28.7728	39.4134	0.453980587	0.00005	0.000282578
AT5G05740	51.3344	39.2505	-0.387214891	0.00005	0.000282578
AT5G05760	13.1572	18.3042	0.476322221	0.0086	0.0272015
AT5G05780	60.3365	48.0393	-0.328815882	0.0012	0.00498818
AT5G05820	14.4798	10.5865	-0.451815976	0.00025	0.00123846
AT5G05830	14.4809	9.42424	-0.619703085	0.0002	0.00101248
AT5G05860	6.80442	5.16755	-0.396991751	0.0101	0.0311631
AT5G05880	5.3837	2.90922	-0.88796562	0.00005	0.000282578
AT5G05890	19.4087	10.5019	-0.886053126	0.00005	0.000282578
AT5G05940	2.79659	2.00873	-0.4773851	0.0118	0.0355426
AT5G05960	21.1089	33.4821	0.665538616	0.00015	0.000779873
AT5G05990	8.80219	15.939	0.8566267	0.00005	0.000282578
AT5G06060	52.7554	27.6248	-0.933354755	0.00005	0.000282578
AT5G06090	1.35877	2.03421	0.582167352	0.0152	0.0439578
AT5G06140	48.7109	39.9557	-0.285843309	0.00535	0.0181609
AT5G06150	17.541	7.58157	-1.210162458	0.00005	0.000282578
AT5G06160	20.292	16.2656	-0.319087025	0.0047	0.0162675
AT5G06200	11.0441	7.06543	-0.644426586	0.0004	0.00188925

AT5G06250	0.308447	1.73859	2.494823232	0.00005	0.000282578
AT5G06270	17.8353	7.16208	-1.316284944	0.00005	0.000282578
AT5G06300	15.6191	20.1698	0.368885453	0.00315	0.0115529
AT5G06320	87.9968	150.148	0.770862292	0.00005	0.000282578
AT5G06330	4.14158	6.11492	0.562152368	0.0005	0.00230701
AT5G06340	61.2685	84.7113	0.467408899	0.00005	0.000282578
AT5G06440	32.5974	24.3079	-0.423331636	0.00005	0.000282578
AT5G06450	15.0502	11.234	-0.421910951	0.00285	0.010609
AT5G06510	0.969224	13.5694	3.807382991	0.00005	0.000282578
AT5G06530	8.34935	12.6376	0.597986715	0.00005	0.000282578
AT5G06550	4.36179	5.81624	0.415166489	0.0109	0.0332243
AT5G06570	7.69884	2.25011	-1.774645557	0.00005	0.000282578
AT5G06580	19.9663	12.2065	-0.709917416	0.00005	0.000282578
AT5G06600	52.2039	44.2103	-0.239775066	0.0163	0.0466222
AT5G06610	7.74987	9.9543	0.361147757	0.01465	0.0426155
AT5G06620	2.11511	3.33972	0.658994458	0.01025	0.0315592
AT5G06690	111.901	66.658	-0.747372992	0.00005	0.000282578
AT5G06700	47.5822	30.1935	-0.656183975	0.00005	0.000282578
AT5G06720	2.21984	7.55004	1.766028593	0.00005	0.000282578
AT5G06730	1.22733	3.32525	1.437939602	0.00005	0.000282578
AT5G06740	2.1265	3.10926	0.548090407	0.00575	0.0193124
AT5G06790	2.51097	4.04924	0.689406363	0.00135	0.00552942
AT5G06800	7.29618	3.88465	-0.909356702	0.00005	0.000282578
AT5G06830	18.2298	13.8653	-0.394819902	0.0006	0.00271108
AT5G06860	86.7052	169.749	0.969212651	0.00005	0.000282578
AT5G06870	34.1578	64.3948	0.914729134	0.00005	0.000282578
AT5G06910	16.2628	20.1218	0.307183697	0.01505	0.043598
AT5G06930	6.87353	4.2586	-0.690671979	0.00005	0.000282578
AT5G06960	10.9812	13.6794	0.316969235	0.01135	0.0343831
AT5G06970	27.3788	13.1964	-1.052914802	0.00005	0.000282578
AT5G06980	27.0878	4.55707	-2.57146479	0.00005	0.000282578
AT5G07000	18.5932	10.4196	-0.835475193	0.00005	0.000282578
AT5G07020	199.382	116.147	-0.77958328	0.00005	0.000282578
AT5G07080	9.71679	5.29674	-0.875375096	0.00005	0.000282578
AT5G07090	271.283	212.878	-0.349771782	0.0005	0.00230701
AT5G07100	23.5292	18.3077	-0.362001713	0.00295	0.0109262
AT5G07110	24.1566	15.5451	-0.635957515	0.0026	0.00979559
AT5G07130	4.07465	5.75081	0.497089032	0.0019	0.00745613
AT5G07270	17.0419	13.9091	-0.293057118	0.0088	0.0277304
AT5G07280	1.40348	1.00452	-0.482502217	0.01255	0.0374311
AT5G07340	25.5509	34.1757	0.419596779	0.00005	0.000282578
AT5G07360	12.1336	17.5438	0.531953614	0.00355	0.0128096
AT5G07400	1.31179	2.07931	0.66456808	0.0001	0.000537698
AT5G07460	27.2433	85.9985	1.658410028	0.00005	0.000282578
AT5G07475	15.1593	21.767	0.521939447	0.00065	0.00291062
AT5G07560	0.692537	2.62659	1.923227962	0.00005	0.000282578
AT5G07570	0.390242	0.932413	1.256600062	0.00005	0.000282578

AT5G07572	1.37119	2.88401	1.072647674	0.01055	0.0323254
AT5G07580	119.482	161.402	0.433865164	0.0003	0.00145851
AT5G07610	10.2016	6.56841	-0.635179352	0.00005	0.000282578
AT5G07620	7.36376	4.29509	-0.777754245	0.00005	0.000282578
AT5G07650	0.897679	1.42911	0.670845416	0.0111	0.0337467
AT5G07690	6.57267	5.05502	-0.378762752	0.0136	0.0400639
AT5G07700	1.21504	0.358794	-1.759776139	0.0007	0.00310863
AT5G07710	3.94516	5.1947	0.396956623	0.01405	0.041168
AT5G07760	0.0754458	1.1175	3.888690432	0.0001	0.000537698
AT5G07770	11.8514	16.8022	0.503592651	0.00005	0.000282578
AT5G07810	1.81245	0.652535	-1.473814005	0.00005	0.000282578
AT5G07820	8.22192	5.5429	-0.568834354	0.00005	0.000282578
AT5G07840	20.6482	11.0177	-0.906192935	0.00005	0.000282578
AT5G07860	10.0928	19.1836	0.926547012	0.00005	0.000282578
AT5G07900	11.5156	7.85471	-0.551959666	0.00315	0.0115529
AT5G07980	6.81846	8.55641	0.327559682	0.0028	0.0104493
AT5G07990	3.97046	5.5906	0.493696964	0.0024	0.0091296
AT5G08000	22.4423	16.5415	-0.440130473	0.00035	0.00167549
AT5G08020	4.75421	2.38374	-0.995978744	0.00005	0.000282578
AT5G08030	1.31693	3.29396	1.322644373	0.0032	0.0117121
AT5G08050	182.209	101.566	-0.843176691	0.00005	0.000282578
AT5G08080	42.471	35.4645	-0.26010247	0.0149	0.0432411
AT5G08100	27.2567	20.8291	-0.3880104	0.00065	0.00291062
AT5G08139	6.83849	9.42032	0.462098267	0.0008	0.00349363
AT5G08160	35.5963	28.3917	-0.326258055	0.00165	0.00658915
AT5G08230	6.041	7.93838	0.394057237	0.0006	0.00271108
AT5G08240	9.32311	13.9932	0.585842725	0.00005	0.000282578
AT5G08250	0.855992	2.12759	1.313550943	0.00005	0.000282578
AT5G08260	42.6844	34.3059	-0.315252185	0.0024	0.0091296
AT5G08280	268.68	121.711	-1.142429372	0.00005	0.000282578
AT5G08320	15.0344	11.1924	-0.425747865	0.01155	0.0349062
AT5G08330	58.6587	20.8665	-1.491156465	0.00005	0.000282578
AT5G08350	6.7914	9.67637	0.510756929	0.0022	0.00846997
AT5G08370	22.8209	17.2064	-0.407410407	0.00045	0.00210009
AT5G08380	17.8635	37.113	1.054909849	0.00005	0.000282578
AT5G08410	164.347	103.605	-0.665651492	0.00005	0.000282578
AT5G08415	36.8484	18.6832	-0.979860401	0.00005	0.000282578
AT5G08490	0.545629	0.914739	0.745439837	0.0025	0.00945953
AT5G08520	42.2718	31.2828	-0.434325898	0.00005	0.000282578
AT5G08540	54.4714	34.6511	-0.652597796	0.00005	0.000282578
AT5G08590	71.5142	50.5303	-0.501080989	0.0028	0.0104493
AT5G08600	0.838012	3.26187	1.960656477	0.00005	0.000282578
AT5G08610	20.5181	28.7437	0.486348641	0.00005	0.000282578
AT5G08630	7.43883	9.37243	0.333347417	0.00515	0.0175936
AT5G08640	7.64985	45.9356	2.586109308	0.00005	0.000282578
AT5G08650	105.324	55.9338	-0.913041966	0.00005	0.000282578
AT5G08670	223.309	179.734	-0.31317805	0.0031	0.0114009



AT5G08690	153.385	127.798	-0.263292145	0.00935	0.0291957
AT5G08720	21.3244	14.7212	-0.534609872	0.00005	0.000282578
AT5G08740	26.5917	14.2706	-0.897930018	0.00005	0.000282578
AT5G08760	19.8514	32.8122	0.724991572	0.00045	0.00210009
AT5G08790	31.3853	75.3595	1.263700394	0.00005	0.000282578
AT5G09220	154.994	120.703	-0.360750834	0.00045	0.00210009
AT5G09240	13.6264	5.02987	-1.437811444	0.00115	0.00480526
AT5G09250	18.2105	12.4853	-0.544540047	0.0013	0.00534838
AT5G09290	0.975191	3.32995	1.771743798	0.01435	0.0418949
AT5G09410	24.9114	20.5715	-0.276159108	0.00795	0.0254668
AT5G09420	3.375	4.70635	0.479721112	0.0031	0.0114009
AT5G09440	39.8348	99.8806	1.326175156	0.00005	0.000282578
AT5G09445	3.33527	4.95891	0.572219485	0.01735	0.0490658
AT5G09470	0.842211	7.92614	3.234364826	0.00005	0.000282578
AT5G09480	53.0119	64.1653	0.275477063	0.01355	0.0399444
AT5G09510	78.3693	63.6885	-0.299255717	0.0146	0.0424952
AT5G09540	1.03118	3.39685	1.719901325	0.00005	0.000282578
AT5G09570	0.497382	12.4659	4.647488936	0.00005	0.000282578
AT5G09590	20.2827	54.0816	1.41488812	0.00005	0.000282578
AT5G09660	701.881	554.73	-0.339440701	0.002	0.00779418
AT5G09670	27.7147	21.0744	-0.395159834	0.0003	0.00145851
AT5G09730	0.221636	0.554969	1.324214951	0.0022	0.00846997
AT5G09760	12.1262	7.29141	-0.73385779	0.00005	0.000282578
AT5G09770	31.5487	39.3556	0.318988376	0.00945	0.0294592
AT5G09790	2.75346	4.33797	0.655774425	0.00105	0.00443869
AT5G09800	1.27632	4.48795	1.814066515	0.00005	0.000282578
AT5G09805	0.762718	2.01847	1.404040492	0.0115	0.0347817
AT5G09820	10.4817	13.7011	0.386419003	0.0035	0.0126552
AT5G09840	1.74356	2.48237	0.509682155	0.0039	0.0138733
AT5G09860	19.3998	13.443	-0.529186647	0.00005	0.000282578
AT5G09870	27.8356	37.3896	0.425705856	0.00005	0.000282578
AT5G09890	34.6875	25.8166	-0.426116854	0.00005	0.000282578
AT5G09900	71.3986	54.743	-0.383221287	0.0002	0.00101248
AT5G09960	37.6548	30.315	-0.31280196	0.0137	0.040313
AT5G09970	2.0536	1.18652	-0.791418782	0.0008	0.00349363
AT5G09980	2.43393	5.58805	1.199057253	0.0017	0.00676327
AT5G09995	19.8116	13.8807	-0.513265074	0.00055	0.00251246
AT5G10010	24.6451	18.369	-0.424027746	0.00025	0.00123846
AT5G10020	11.6212	9.22165	-0.333662233	0.00235	0.00897001
AT5G10110	7.86301	5.51265	-0.512335682	0.00145	0.00588787
AT5G10130	6.65086	4.72553	-0.493064756	0.0119	0.0357876
AT5G10150	13.8354	8.3621	-0.726427153	0.00005	0.000282578
AT5G10160	64.8651	36.2677	-0.838757203	0.0001	0.000537698
AT5G10180	49.187	118.301	1.266113298	0.00005	0.000282578
AT5G10200	11.9462	7.19732	-0.731020072	0.00005	0.000282578
AT5G10250	1.92354	0.325273	-2.564040852	0.00005	0.000282578
AT5G10290	16.7662	22.5083	0.424901353	0.00005	0.000282578

AT5G10300	4.37572	12.5216	1.516826592	0.00005	0.000282578
AT5G10330	9.20528	6.55271	-0.490369921	0.00065	0.00291062
AT5G10360	240.959	201.765	-0.256111755	0.01115	0.0338768
AT5G10380	5.057	19.5692	1.952231095	0.00005	0.000282578
AT5G10390	27.7264	15.225	-0.864818081	0.00005	0.000282578
AT5G10400	56.7953	42.7514	-0.409799881	0.00035	0.00167549
AT5G10430	39.1062	24.6625	-0.665078303	0.00005	0.000282578
AT5G10435	130.717	77.7091	-0.75029132	0.00025	0.00123846
AT5G10450	345.801	194.591	-0.829497055	0.00005	0.000282578
AT5G10480	118.715	67.7913	-0.808330193	0.00005	0.000282578
AT5G10490	23.8982	30.4032	0.347321219	0.00035	0.00167549
AT5G10540	20.9536	13.6639	-0.61682881	0.00005	0.000282578
AT5G10560	36.5393	21.7773	-0.746623899	0.00005	0.000282578
AT5G10570	4.33921	1.42075	-1.610779693	0.00005	0.000282578
AT5G10580	14.3512	10.6835	-0.425787012	0.0032	0.0117121
AT5G10610	9.38474	12.7952	0.447214017	0.00145	0.00588787
AT5G10620	6.9687	3.11655	-1.16093969	0.0031	0.0114009
AT5G10625	10.7353	22.7764	1.085177227	0.00005	0.000282578
AT5G10630	12.4081	8.56376	-0.534965949	0.00005	0.000282578
AT5G10650	6.71453	13.709	1.029765015	0.00005	0.000282578
AT5G10695	11.3142	24.4912	1.114128885	0.00005	0.000282578
AT5G10740	12.1657	26.1648	1.104807898	0.00005	0.000282578
AT5G10760	1.08404	38.3257	5.143822245	0.00005	0.000282578
AT5G10770	29.1559	40.1918	0.463113333	0.00005	0.000282578
AT5G10790	8.71617	5.32716	-0.710327722	0.00005	0.000282578
AT5G10860	377.972	266.834	-0.502336858	0.00005	0.000282578
AT5G10900	3.68272	2.2904	-0.685172137	0.0002	0.00101248
AT5G10946	1.11522	3.96078	1.82845623	0.00005	0.000282578
AT5G10960	67.2032	88.1494	0.391420819	0.00015	0.000779873
AT5G11020	6.25517	2.76344	-1.178583805	0.0001	0.000537698
AT5G11060	22.0677	26.7235	0.276172698	0.00745	0.0241032
AT5G11070	25.5777	39.4825	0.626326803	0.00005	0.000282578
AT5G11090	64.5857	120.479	0.899495024	0.00005	0.000282578
AT5G11100	2.04555	9.4345	2.205457259	0.00005	0.000282578
AT5G11110	7.26948	12.0148	0.724888559	0.00005	0.000282578
AT5G11150	41.9806	22.963	-0.870411651	0.00005	0.000282578
AT5G11160	6.59897	3.62683	-0.863531735	0.00005	0.000282578
AT5G11190	3.18872	0.871315	-1.871711136	0.00005	0.000282578
AT5G11250	5.89318	8.15357	0.468385542	0.00005	0.000282578
AT5G11260	15.8359	34.0227	1.103298774	0.00005	0.000282578
AT5G11280	34.0663	25.1321	-0.438814037	0.00905	0.0284102
AT5G11290	0.273287	0.696751	1.350226334	0.00735	0.0238331
AT5G11320	0.499448	0.187457	-1.41377478	0.01715	0.0486055
AT5G11330	40.4078	66.644	0.721841188	0.00005	0.000282578
AT5G11340	20.6694	28.2259	0.449523073	0.00755	0.0243868
AT5G11410	1.65964	2.90912	0.809712474	0.0018	0.00711608
AT5G11420	183.251	64.1104	-1.515190756	0.00005	0.000282578

AT5G11450	80.7012	52.0569	-0.632500725	0.00005	0.000282578
AT5G11480	66.0539	44.9245	-0.556141298	0.00005	0.000282578
AT5G11510	4.34689	2.61034	-0.735745856	0.00005	0.000282578
AT5G11520	55.1211	45.0944	-0.289656394	0.00385	0.0137217
AT5G11540	1.72422	2.54101	0.559458188	0.0055	0.0185914
AT5G11550	26.7889	21.5826	-0.31176667	0.00605	0.0201752
AT5G11570	1.01417	0.457513	-1.148414861	0.0077	0.0247988
AT5G11610	19.3425	9.75846	-0.987048877	0.00005	0.000282578
AT5G11620	1.67932	0.823097	-1.028742803	0.0114	0.034515
AT5G11640	17.4756	13.7928	-0.341426629	0.01735	0.0490658
AT5G11650	8.76324	15.2251	0.796915428	0.00005	0.000282578
AT5G11710	53.7365	33.5898	-0.677879152	0.00005	0.000282578
AT5G11730	8.39568	11.5954	0.465833504	0.0002	0.00101248
AT5G11810	29.2293	17.6907	-0.724424144	0.00005	0.000282578
AT5G11840	39.78	28.5542	-0.478340311	0.00005	0.000282578
AT5G11850	12.6769	15.5043	0.290466399	0.0069	0.0225733
AT5G11880	48.3126	37.8764	-0.35110028	0.00065	0.00291062
AT5G11900	29.3757	38.489	0.389822958	0.00755	0.0243868
AT5G11910	18.0601	25.8742	0.518708376	0.00545	0.0184447
AT5G11920	2.44557	4.21684	0.785991523	0.00005	0.000282578
AT5G11930	0.370564	2.92765	2.981948453	0.0007	0.00310863
AT5G11975	47.5503	86.1857	0.857994073	0.00095	0.00406118
AT5G11980	18.1859	13.1935	-0.462992988	0.00005	0.000282578
AT5G12020	0.278803	2.76913	3.312114794	0.00095	0.00406118
AT5G12030	0.315455	3.77322	3.580290097	0.0003	0.00145851
AT5G12050	32.3999	10.9367	-1.56681187	0.00005	0.000282578
AT5G12080	6.62847	10.1576	0.61581176	0.00005	0.000282578
AT5G12100	3.7021	7.29883	0.979321354	0.00005	0.000282578
AT5G12110	1.90069	31.1999	4.03694625	0.00005	0.000282578
AT5G12130	32.2665	17.2223	-0.90575927	0.00005	0.000282578
AT5G12150	78.265	50.3094	-0.637539297	0.00005	0.000282578
AT5G12170	22.028	34.0117	0.626692604	0.00005	0.000282578
AT5G12200	35.1316	46.6765	0.409927103	0.00005	0.000282578
AT5G12250	194.255	97.9551	-0.98775922	0.00005	0.000282578
AT5G12270	3.16469	1.96398	-0.688283948	0.00425	0.0149278
AT5G12280	1.46616	0.842515	-0.799268274	0.0134	0.0395593
AT5G12300	2.35889	3.5085	0.572746218	0.0041	0.0144768
AT5G12330	1.53075	2.82371	0.883353246	0.0002	0.00101248
AT5G12370	48.081	36.1205	-0.412649038	0.0009	0.00387377
AT5G12400	8.52491	10.4879	0.298969327	0.0041	0.0144768
AT5G12420	15.022	21.3067	0.504230261	0.00005	0.000282578
AT5G12430	18.7631	14.6704	-0.354989999	0.0004	0.00188925
AT5G12440	14.4362	11.1711	-0.369919783	0.00075	0.0032996
AT5G12470	63.7609	25.7418	-1.308559056	0.00005	0.000282578
AT5G12860	234.915	133.841	-0.811618707	0.00005	0.000282578
AT5G12880	4.52977	8.14504	0.846483985	0.0013	0.00534838
AT5G12890	8.0121	15.2827	0.931647115	0.00005	0.000282578

AT5G12900	8.26891	13.0837	0.662001513	0.00005	0.000282578
AT5G12930	4.61933	6.78566	0.55480553	0.00035	0.00167549
AT5G12940	15.9365	9.11502	-0.80601709	0.00005	0.000282578
AT5G12950	57.4454	28.5114	-1.01065249	0.00005	0.000282578
AT5G13010	23.8357	29.3211	0.298815233	0.00275	0.0102843
AT5G13070	21.9342	30.6364	0.482064692	0.0001	0.000537698
AT5G13080	4.86241	9.41552	0.953369227	0.00005	0.000282578
AT5G13100	24.2941	19.7565	-0.298278601	0.00845	0.0267941
AT5G13120	93.034	65.1217	-0.514619695	0.00005	0.000282578
AT5G13170	1.85573	0.463889	-2.000135279	0.00015	0.000779873
AT5G13180	77.469	52.5672	-0.559456225	0.00005	0.000282578
AT5G13190	11.3596	13.9995	0.301463267	0.0169	0.0480113
AT5G13220	2.9901	1.67313	-0.837644189	0.00095	0.00406118
AT5G13230	0.285732	0.765894	1.422482119	0.0005	0.00230701
AT5G13240	38.6166	57.4079	0.572028135	0.00005	0.000282578
AT5G13260	24.127	18.6534	-0.371209921	0.0005	0.00230701
AT5G13270	3.00099	5.26452	0.810863486	0.00005	0.000282578
AT5G13320	0.889083	5.33244	2.584405815	0.00005	0.000282578
AT5G13330	5.15276	8.31564	0.690481905	0.0001	0.000537698
AT5G13370	10.7539	21.2582	0.983159483	0.00005	0.000282578
AT5G13400	21.2918	11.0381	-0.947806059	0.00005	0.000282578
AT5G13410	54.1209	31.3836	-0.786174978	0.00005	0.000282578
AT5G13430	73.6613	54.163	-0.443599209	0.00005	0.000282578
AT5G13460	14.0501	8.54251	-0.717848462	0.00005	0.000282578
AT5G13490	9.39924	31.0144	1.722322201	0.00005	0.000282578
AT5G13510	361.684	198.871	-0.862896865	0.00005	0.000282578
AT5G13550	18.8394	36.4635	0.952700029	0.00005	0.000282578
AT5G13580	9.15363	12.1464	0.408112902	0.00055	0.00251246
AT5G13590	14.6089	18.4582	0.337414319	0.0008	0.00349363
AT5G13630	429.258	145.066	-1.565135596	0.00005	0.000282578
AT5G13640	32.7689	26.4577	-0.308639593	0.0021	0.00813349
AT5G13650	149.173	208.277	0.481517097	0.00005	0.000282578
AT5G13660	4.55321	6.499	0.513333748	0.0007	0.00310863
AT5G13680	8.6039	10.5231	0.290497109	0.0076	0.024527
AT5G13690	13.0372	18.2518	0.485404695	0.00005	0.000282578
AT5G13710	155.98	100.892	-0.628549273	0.00005	0.000282578
AT5G13720	51.1666	35.191	-0.539995859	0.00055	0.00251246
AT5G13730	25.3395	41.1014	0.697799479	0.00005	0.000282578
AT5G13740	17.0255	13.3917	-0.346358053	0.0052	0.0177382
AT5G13750	10.8828	22.3525	1.038386407	0.00005	0.000282578
AT5G13790	1.4542	2.66826	0.875673552	0.00425	0.0149278
AT5G13800	32.412	44.2687	0.449758962	0.00005	0.000282578
AT5G13820	3.5973	10.4649	1.540572141	0.00005	0.000282578
AT5G13850	100.646	77.766	-0.372078397	0.0024	0.0091296
AT5G13910	1.6855	2.99439	0.829085508	0.00405	0.0143254
AT5G13930	32.236	199.919	2.632670947	0.00005	0.000282578
AT5G13950	27.5861	20.2776	-0.4440546	0.00005	0.000282578

AT5G13960	5.21819	8.38614	0.68445744	0.00005	0.000282578
AT5G14000	5.73477	8.61872	0.587737999	0.00025	0.00123846
AT5G14060	58.8633	31.414	-0.905960769	0.00005	0.000282578
AT5G14090	21.9384	17.7058	-0.309236281	0.017	0.0482529
AT5G14120	121.116	52.8941	-1.195210752	0.00005	0.000282578
AT5G14170	36.1428	30.0577	-0.265973658	0.01065	0.032587
AT5G14180	2.17986	5.51289	1.338573333	0.00005	0.000282578
AT5G14200	88.2749	68.2909	-0.370309934	0.0063	0.0208862
AT5G14230	6.28848	3.51188	-0.840467794	0.0029	0.0107667
AT5G14260	132.301	59.2066	-1.159994053	0.00005	0.000282578
AT5G14320	314.145	147.453	-1.091175443	0.00005	0.000282578
AT5G14340	1.21639	3.58726	1.560276453	0.00005	0.000282578
AT5G14370	22.5391	30.8395	0.452349466	0.00005	0.000282578
AT5G14380	0.329136	1.14422	1.797608729	0.00535	0.0181609
AT5G14410	24.5986	12.9309	-0.927753517	0.00005	0.000282578
AT5G14420	19.6538	14.7405	-0.415022818	0.00015	0.000779873
AT5G14460	29.6364	18.7491	-0.660548866	0.00005	0.000282578
AT5G14500	11.7146	9.15042	-0.356397825	0.0103	0.03169
AT5G14610	15.3644	8.38191	-0.874240493	0.00005	0.000282578
AT5G14640	22.565	29.7947	0.400968943	0.00015	0.000779873
AT5G14660	50.897	27.6591	-0.879826409	0.00005	0.000282578
AT5G14700	3.46717	4.91805	0.504327827	0.005	0.0171523
AT5G14720	52.6179	39.9177	-0.398525074	0.0001	0.000537698
AT5G14730	7.51998	19.7903	1.395992752	0.00005	0.000282578
AT5G14740	877.491	625.62	-0.488097695	0.00005	0.000282578
AT5G14760	1.83095	5.46826	1.578489446	0.00005	0.000282578
AT5G14770	2.55143	3.64014	0.512687877	0.00875	0.0275984
AT5G14780	213.541	138.436	-0.625293933	0.00005	0.000282578
AT5G14790	17.9856	13.6271	-0.400363716	0.0013	0.00534838
AT5G14800	52.8148	100.676	0.930705633	0.00005	0.000282578
AT5G14895	1.07871	0.303753	-1.828336501	0.00665	0.0218627
AT5G14910	205.362	108.571	-0.91953045	0.00005	0.000282578
AT5G14920	290.188	190.565	-0.60670469	0.00005	0.000282578
AT5G14970	110.8	70.0454	-0.661595667	0.00005	0.000282578
AT5G15050	11.4364	6.51565	-0.811651972	0.00005	0.000282578
AT5G15120	1.65454	3.87597	1.228127234	0.00005	0.000282578
AT5G15150	7.48225	3.44118	-1.120568813	0.00005	0.000282578
AT5G15160	8.30645	3.02336	-1.458079257	0.00005	0.000282578
AT5G15180	14.6982	9.45951	-0.635802128	0.00005	0.000282578
AT5G15200	369.793	254.372	-0.539778041	0.00005	0.000282578
AT5G15210	14.4158	19.6925	0.449995375	0.00005	0.000282578
AT5G15220	15.1795	10.6325	-0.513643415	0.0004	0.00188925
AT5G15310	16.0556	12.2088	-0.395155175	0.0018	0.00711608
AT5G15320	50.0427	35.7613	-0.484760448	0.0001	0.000537698
AT5G15330	7.70234	4.92741	-0.644467288	0.0004	0.00188925
AT5G15350	111.158	82.0651	-0.437771063	0.00005	0.000282578
AT5G15410	100.318	37.061	-1.436606777	0.00005	0.000282578

AT5G15490	45.2512	33.4326	-0.436700496	0.00005	0.000282578
AT5G15500	0.124361	8.19265	6.041724155	0.00005	0.000282578
AT5G15510	5.21667	2.99584	-0.800168598	0.00005	0.000282578
AT5G15530	26.0428	13.5	-0.947925161	0.00005	0.000282578
AT5G15550	13.8249	17.163	0.312032705	0.00935	0.0291957
AT5G15570	7.49429	10.314	0.46074024	0.00075	0.0032996
AT5G15580	12.7758	10.2616	-0.316157938	0.00345	0.0125039
AT5G15630	4.26387	5.98207	0.48848134	0.0067	0.0220088
AT5G15640	14.8871	11.8965	-0.323525556	0.0088	0.0277304
AT5G15700	3.49875	5.84226	0.739686983	0.00005	0.000282578
AT5G15725	0.856043	0	-inf	0.00005	0.000282578
AT5G15730	13.8882	19.2147	0.468350823	0.00015	0.000779873
AT5G15740	15.0919	22.1658	0.554560987	0.00005	0.000282578
AT5G15760	3.81323	2.16752	-0.814968246	0.00965	0.0299919
AT5G15780	139.457	56.5387	-1.302509735	0.00005	0.000282578
AT5G15820	2.7608	4.01146	0.539041033	0.00745	0.0241032
AT5G15840	0.435959	1.5334	1.814469717	0.00005	0.000282578
AT5G15850	8.33855	12.7559	0.613296254	0.00005	0.000282578
AT5G15860	5.88244	12.8228	1.124224719	0.00005	0.000282578
AT5G15900	0.679464	1.49837	1.1409249	0.00085	0.00368886
AT5G15910	18.5072	11.4494	-0.692814646	0.00005	0.000282578
AT5G15930	17.2277	7.53152	-1.193717144	0.00005	0.000282578
AT5G15950	7.29053	15.2228	1.062138142	0.00005	0.000282578
AT5G15960	9.5802	1.29357	-2.888697649	0.00005	0.000282578
AT5G15970	210.211	121.768	-0.787703115	0.00005	0.000282578
AT5G16000	16.7999	8.35053	-1.008512973	0.00005	0.000282578
AT5G16030	218.883	32.6764	-2.743838955	0.00005	0.000282578
AT5G16060	21.3682	37.813	0.82341693	0.0061	0.0203154
AT5G16130	211.077	163.218	-0.370969215	0.00025	0.00123846
AT5G16150	121.063	60.3911	-1.003350151	0.00005	0.000282578
AT5G16180	13.2069	10.7836	-0.29245298	0.01105	0.0336205
AT5G16200	3.47177	7.89316	1.18493162	0.00005	0.000282578
AT5G16230	4.86635	3.09953	-0.650790618	0.0052	0.0177382
AT5G16240	16.7179	7.23868	-1.207595091	0.00005	0.000282578
AT5G16250	76.7532	40.0372	-0.938885818	0.00005	0.000282578
AT5G16300	19.5915	15.3221	-0.354613818	0.0011	0.00462106
AT5G16340	4.00272	2.31363	-0.790822535	0.00005	0.000282578
AT5G16350	5.20446	2.34049	-1.15293788	0.00025	0.00123846
AT5G16360	5.08521	7.66713	0.592379288	0.0028	0.0104493
AT5G16370	34.9473	50.6377	0.53503088	0.00005	0.000282578
AT5G16380	13.8245	20.5775	0.573840415	0.00005	0.000282578
AT5G16390	90.7186	42.5483	-1.092296886	0.00005	0.000282578
AT5G16400	125.312	37.4627	-1.741997789	0.00005	0.000282578
AT5G16410	2.68225	1.71964	-0.641337136	0.00355	0.0128096
AT5G16420	2.04163	3.71897	0.865181677	0.00005	0.000282578
AT5G16440	36.065	26.546	-0.442104934	0.00005	0.000282578
AT5G16470	107.131	133.465	0.317085451	0.00195	0.00762526

AT5G16480	10.5136	7.16381	-0.553457773	0.00035	0.00167549
AT5G16530	1.91125	5.08623	1.412080201	0.00005	0.000282578
AT5G16570	3.25652	4.51035	0.469908303	0.01065	0.032587
AT5G16590	25.1686	15.8543	-0.666750788	0.00005	0.000282578
AT5G16600	5.32569	9.60822	0.851300731	0.00005	0.000282578
AT5G16650	32.5397	23.1693	-0.489986493	0.0001	0.000537698
AT5G16660	95.3324	70.0786	-0.443992663	0.0029	0.0107667
AT5G16760	28.283	21.5467	-0.392468227	0.0003	0.00145851
AT5G16810	28.2493	10.0839	-1.486161402	0.00005	0.000282578
AT5G16820	16.1665	10.753	-0.588268157	0.00015	0.000779873
AT5G16860	0.47422	0.951432	1.00454404	0.0011	0.00462106
AT5G16940	17.2368	8.08056	-1.092964781	0.0002	0.00101248
AT5G16950	6.51023	11.514	0.822608699	0.00035	0.00167549
AT5G16960	2.35211	0.527318	-2.157210383	0.00005	0.000282578
AT5G16970	114.471	190.287	0.73319485	0.00005	0.000282578
AT5G16980	4.45908	13.0736	1.551838474	0.00005	0.000282578
AT5G16990	14.581	10.463	-0.478793099	0.00005	0.000282578
AT5G17000	13.3839	30.435	1.185232795	0.00005	0.000282578
AT5G17010	11.3821	21.691	0.930329806	0.00005	0.000282578
AT5G17040	0.230912	1.48951	2.689422755	0.0002	0.00101248
AT5G17050	10.8701	24.307	1.161006633	0.00005	0.000282578
AT5G17060	8.5079	19.6926	1.21077862	0.00005	0.000282578
AT5G17070	16.1223	10.248	-0.653715192	0.00005	0.000282578
AT5G17160	13.6266	7.1413	-0.932167006	0.00005	0.000282578
AT5G17165	4.40987	1.42948	-1.625245692	0.0055	0.0185914
AT5G17170	110.087	188.517	0.776050515	0.00005	0.000282578
AT5G17240	3.19096	6.5011	1.026693322	0.00005	0.000282578
AT5G17260	0.830233	0.394551	-1.073304481	0.00775	0.0249349
AT5G17270	4.33875	7.45734	0.781381659	0.00005	0.000282578
AT5G17290	15.3132	18.4166	0.266230947	0.015	0.0434809
AT5G17300	2.68481	3.83047	0.512701428	0.00505	0.0172987
AT5G17330	93.9444	126.117	0.424883687	0.00005	0.000282578
AT5G17340	2.52534	8.7583	1.794173229	0.00005	0.000282578
AT5G17345	1.44557	13.4204	3.214717296	0.00615	0.0204586
AT5G17350	1.48554	5.93496	1.998250854	0.00005	0.000282578
AT5G17370	3.85622	2.69864	-0.514954827	0.00995	0.030766
AT5G17450	4.1285	7.90988	0.938038103	0.00005	0.000282578
AT5G17460	12.7143	4.39001	-1.534155904	0.00005	0.000282578
AT5G17530	27.244	19.805	-0.460073836	0.00005	0.000282578
AT5G17550	23.1193	11.7912	-0.971387167	0.00005	0.000282578
AT5G17560	57.4764	38.2638	-0.586989547	0.00005	0.000282578
AT5G17600	4.50395	9.64683	1.098864131	0.00005	0.000282578
AT5G17620	12.6857	9.82855	-0.368152632	0.00675	0.0221564
AT5G17640	18.0562	13.158	-0.456554086	0.0062	0.0206032
AT5G17670	32.1966	19.2701	-0.740544288	0.00005	0.000282578
AT5G17700	8.9715	15.2003	0.760678674	0.00005	0.000282578
AT5G17760	5.17761	21.1982	2.033583562	0.00005	0.000282578

AT5G17820	105.259	87.2088	-0.271397968	0.0081	0.0258615
AT5G17850	2.95272	4.57975	0.633224291	0.00005	0.000282578
AT5G17860	6.43086	36.4507	2.502862933	0.00005	0.000282578
AT5G17880	7.68481	11.0617	0.525491625	0.00005	0.000282578
AT5G17920	953.202	613.578	-0.635535223	0.00005	0.000282578
AT5G17980	1.55392	2.25843	0.539407966	0.0021	0.00813349
AT5G17990	25.7929	36.1549	0.487217196	0.00005	0.000282578
AT5G18020	13.4105	5.45701	-1.297180435	0.00005	0.000282578
AT5G18040	5.18774	13.4829	1.377952754	0.00005	0.000282578
AT5G18060	3.87392	1.79379	-1.110783158	0.00145	0.00588787
AT5G18065	1.6969	6.42127	1.919957114	0.00005	0.000282578
AT5G18080	7.64797	4.25379	-0.846328052	0.0032	0.0117121
AT5G18130	32.2821	63.7073	0.980724264	0.00005	0.000282578
AT5G18170	68.7397	33.4661	-1.03844312	0.00005	0.000282578
AT5G18200	9.20174	13.0362	0.502544793	0.0003	0.00145851
AT5G18230	54.6679	42.769	-0.354128482	0.0003	0.00145851
AT5G18260	11.4833	8.21084	-0.483935567	0.0002	0.00101248
AT5G18270	5.78751	10.3505	0.838685775	0.00005	0.000282578
AT5G18290	10.9031	6.51131	-0.743718653	0.00005	0.000282578
AT5G18310	29.3212	44.5673	0.604041413	0.00005	0.000282578
AT5G18340	0.653518	4.98505	2.931309097	0.00005	0.000282578
AT5G18390	5.9993	4.14636	-0.532948795	0.0011	0.00462106
AT5G18410	17.6199	12.2831	-0.520531023	0.00005	0.000282578
AT5G18430	3.5296	1.52493	-1.210761677	0.00005	0.000282578
AT5G18470	6.08447	11.7106	0.94461149	0.00005	0.000282578
AT5G18490	12.4316	16.1271	0.375475045	0.00125	0.00516712
AT5G18500	42.4633	30.719	-0.467085241	0.00005	0.000282578
AT5G18590	28.0754	21.487	-0.385842509	0.007	0.0228553
AT5G18600	83.1441	6.90116	-3.590703105	0.00005	0.000282578
AT5G18630	38.1589	45.5636	0.255862156	0.0146	0.0424952
AT5G18660	62.5105	38.9346	-0.683045738	0.00005	0.000282578
AT5G18670	10.7123	27.9564	1.383910325	0.00005	0.000282578
AT5G18690	10.8906	14.4783	0.410808776	0.008	0.0256029
AT5G18700	5.38727	2.85798	-0.914558552	0.00005	0.000282578
AT5G18750	3.58073	5.75384	0.684271366	0.00005	0.000282578
AT5G18760	21.9017	14.7942	-0.566011171	0.00005	0.000282578
AT5G18770	2.81782	5.31299	0.914944541	0.00005	0.000282578
AT5G18780	3.69596	11.5032	1.638014203	0.00005	0.000282578
AT5G18790	12.4566	24.2026	0.958251698	0.0016	0.00641937
AT5G18800	87.1797	71.6187	-0.283655908	0.0092	0.0288044
AT5G18810	1.0185	2.13923	1.070645622	0.00565	0.0190219
AT5G18830	12.0896	16.1679	0.419365792	0.00005	0.000282578
AT5G18840	2.03867	5.9611	1.54795031	0.00005	0.000282578
AT5G18850	15.1269	20.9374	0.468965938	0.0065	0.021442
AT5G18860	13.3722	10.4737	-0.352465651	0.0008	0.00349363
AT5G18900	24.8273	35.5969	0.519824233	0.00005	0.000282578
AT5G18920	2.60083	4.3926	0.756103028	0.0089	0.0279995



AT5G18980	8.04758	11.5	0.515006943	0.0001	0.000537698
AT5G19010	40.8944	24.6653	-0.729420462	0.00005	0.000282578
AT5G19020	1.75302	2.53334	0.531198259	0.0067	0.0220088
AT5G19040	3.43875	1.65478	-1.055244808	0.00005	0.000282578
AT5G19110	2.17754	4.98622	1.195247318	0.00005	0.000282578
AT5G19120	106.042	203.766	0.942277561	0.00005	0.000282578
AT5G19140	834.386	349.792	-1.254217657	0.00005	0.000282578
AT5G19190	65.7729	23.0014	-1.515771607	0.00005	0.000282578
AT5G19220	300.028	126.484	-1.246142248	0.00005	0.000282578
AT5G19230	65.5481	49.5572	-0.403459286	0.00015	0.000779873
AT5G19240	18.3469	53.4242	1.541957082	0.00005	0.000282578
AT5G19250	210.816	114.196	-0.884472248	0.00005	0.000282578
AT5G19260	4.32558	7.35762	0.766345576	0.00005	0.000282578
AT5G19280	13.4474	16.861	0.326362842	0.00325	0.0118728
AT5G19290	49.5358	31.6125	-0.64797642	0.00005	0.000282578
AT5G19300	4.69872	6.22446	0.405680883	0.01045	0.0320751
AT5G19340	9.4997	6.11862	-0.634675651	0.00005	0.000282578
AT5G19370	50.5144	33.6242	-0.587194769	0.00005	0.000282578
AT5G19420	5.94568	7.5643	0.347364763	0.00225	0.00863481
AT5G19430	24.8726	40.8657	0.716333123	0.00005	0.000282578
AT5G19460	12.8802	7.3621	-0.806965744	0.00005	0.000282578
AT5G19530	45.7276	17.5988	-1.377588142	0.00005	0.000282578
AT5G19540	108.669	74.3796	-0.546961547	0.00005	0.000282578
AT5G19590	99.2429	159.505	0.684565851	0.00005	0.000282578
AT5G19600	7.0443	11.9453	0.76191483	0.00005	0.000282578
AT5G19620	20.0097	15.1915	-0.39743521	0.00015	0.000779873
AT5G19740	7.46756	12.2365	0.712482134	0.00005	0.000282578
AT5G19760	211.941	146.111	-0.536597908	0.00005	0.000282578
AT5G19770	296.959	110.629	-1.424534138	0.00005	0.000282578
AT5G19780	239.398	126.551	-0.919692192	0.00005	0.000282578
AT5G19840	3.44434	4.76114	0.46707949	0.0084	0.0266576
AT5G19850	13.6149	17.2882	0.344601281	0.00615	0.0204586
AT5G19855	65.9912	46.2154	-0.513899982	0.00005	0.000282578
AT5G19860	80.5458	103.931	0.36774477	0.0003	0.00145851
AT5G19875	2.9762	14.709	2.305155784	0.00005	0.000282578
AT5G19880	0.13584	1.14744	3.078438448	0.00385	0.0137217
AT5G19890	0.980017	3.42787	1.806433717	0.00005	0.000282578
AT5G19900	16.5685	21.2857	0.361441539	0.00085	0.00368886
AT5G19940	673.812	206.412	-1.706819276	0.00005	0.000282578
AT5G19990	54.4035	43.678	-0.316792672	0.0018	0.00711608
AT5G20010	124.877	159.518	0.353211443	0.0005	0.00230701
AT5G20030	3.99002	2.18695	-0.867475741	0.00015	0.000779873
AT5G20060	44.4885	29.0823	-0.613291086	0.00005	0.000282578
AT5G20080	54.6735	38.3422	-0.511908616	0.00025	0.00123846
AT5G20110	14.6427	8.14381	-0.846405792	0.00005	0.000282578
AT5G20140	49.0371	36.3065	-0.433645803	0.00075	0.0032996
AT5G20150	156.76	584.728	1.899208199	0.00005	0.000282578

AT5G20170	9.38037	7.2812	-0.365468592	0.01285	0.0381931
AT5G20180	27.4403	18.9811	-0.531732652	0.00885	0.0278636
AT5G20230	28.6386	104.702	1.870256127	0.00005	0.000282578
AT5G20240	0.658991	2.92559	2.150396933	0.00005	0.000282578
AT5G20270	28.7659	22.569	-0.350017112	0.0014	0.00571151
AT5G20280	61.5544	106.939	0.7968542	0.00005	0.000282578
AT5G20290	513.178	345.979	-0.56877485	0.00005	0.000282578
AT5G20320	4.97421	7.1578	0.525048817	0.00005	0.000282578
AT5G20360	5.4521	9.17318	0.750609926	0.00285	0.010609
AT5G20400	28.3705	49.7692	0.81086162	0.00005	0.000282578
AT5G20410	13.1589	49.3576	1.907233352	0.00005	0.000282578
AT5G20450	3.43381	5.39055	0.650622265	0.00045	0.00210009
AT5G20470	0.787687	0.243912	-1.691261728	0.0021	0.00813349
AT5G20500	109.993	78.8324	-0.480551111	0.00325	0.0118728
AT5G20520	36.0988	52.0683	0.528454425	0.00035	0.00167549
AT5G20540	5.82801	8.06447	0.468576369	0.0025	0.00945953
AT5G20550	3.36525	5.28628	0.651539158	0.0008	0.00349363
AT5G20570	81.7827	59.8016	-0.451611609	0.00005	0.000282578
AT5G20620	65.7685	80.7098	0.295347093	0.0039	0.0138733
AT5G20630	633.275	884.013	0.481235459	0.00005	0.000282578
AT5G20670	1.1724	2.18995	0.901433058	0.0167	0.0475389
AT5G20700	211.201	469.811	1.153463827	0.00005	0.000282578
AT5G20710	0.486291	0.228575	-1.089152271	0.01495	0.0433596
AT5G20740	13.915	8.09206	-0.782061987	0.00005	0.000282578
AT5G20790	185.46	663.634	1.839279742	0.00005	0.000282578
AT5G20830	8.8233	10.9097	0.306221187	0.0068	0.0222907
AT5G20840	22.1294	18.1911	-0.282731551	0.0051	0.0174432
AT5G20860	1.23547	2.11757	0.777349682	0.0013	0.00534838
AT5G20890	79.325	65.0009	-0.287315922	0.00295	0.0109262
AT5G20900	69.9952	89.1679	0.34926845	0.00155	0.00624225
AT5G20950	48.2119	33.0069	-0.546621639	0.00005	0.000282578
AT5G21020	234.338	335.292	0.516827142	0.00005	0.000282578
AT5G21060	22.503	17.6803	-0.347974593	0.0026	0.00979559
AT5G21090	225.557	305.685	0.438553701	0.00005	0.000282578
AT5G21100	22.3786	42.9273	0.93977565	0.00005	0.000282578
AT5G21105	46.2932	171.481	1.889176538	0.00005	0.000282578
AT5G21160	33.856	24.9957	-0.437731603	0.00005	0.000282578
AT5G21170	71.484	30.0628	-1.249640979	0.00005	0.000282578
AT5G21222	18.4015	23.8233	0.372549896	0.00065	0.00291062
AT5G21280	5.81287	7.95436	0.452495213	0.00315	0.0115529
AT5G21326	28.9383	38.662	0.417936098	0.00005	0.000282578
AT5G21482	3.90626	5.25525	0.427971419	0.00705	0.0229904
AT5G21920	145.164	79.7654	-0.86384873	0.00005	0.000282578
AT5G21940	42.4569	99.8135	1.23323592	0.00005	0.000282578
AT5G21970	4.0328	6.80605	0.755035891	0.00005	0.000282578
AT5G22020	16.6065	30.1838	0.862026404	0.00005	0.000282578
AT5G22030	12.5687	15.3754	0.290788506	0.0081	0.0258615

AT5G22050	17.9765	11.5188	-0.642121729	0.01025	0.0315592
AT5G22060	39.3562	69.8647	0.827972771	0.00005	0.000282578
AT5G22140	5.47025	3.4464	-0.666516613	0.00065	0.00291062
AT5G22250	3.69077	8.71357	1.239342085	0.00005	0.000282578
AT5G22280	27.7356	19.7325	-0.491165186	0.00025	0.00123846
AT5G22290	5.09774	7.45219	0.547806664	0.0005	0.00230701
AT5G22310	8.92718	3.11583	-1.518587994	0.00005	0.000282578
AT5G22340	34.5712	25.8217	-0.420986697	0.0003	0.00145851
AT5G22360	32.6162	23.1078	-0.497208795	0.00005	0.000282578
AT5G22390	2.89593	1.0019	-1.53128821	0.00005	0.000282578
AT5G22440	61.6917	50.844	-0.278998868	0.0098	0.0303881
AT5G22480	11.294	8.10988	-0.477804064	0.0002	0.00101248
AT5G22500	22.427	16.4014	-0.451417681	0.0001	0.000537698
AT5G22570	0.343329	4.38146	3.67374806	0.00005	0.000282578
AT5G22580	72.3959	60.4612	-0.259898382	0.0144	0.0420158
AT5G22620	36.346	26.6068	-0.450001592	0.00005	0.000282578
AT5G22630	27.2107	32.8669	0.272461317	0.0093	0.029061
AT5G22640	68.6872	57.9423	-0.245424322	0.0139	0.0408016
AT5G22650	86.6345	110.5	0.351032808	0.0007	0.00310863
AT5G22700	10.8731	13.6366	0.326720662	0.00455	0.015822
AT5G22770	22.8228	27.3969	0.263536861	0.0091	0.0285401
AT5G22800	36.8346	46.5945	0.339098094	0.00105	0.00443869
AT5G22830	47.0262	34.6598	-0.440201429	0.0037	0.0132727
AT5G22860	7.987	10.0428	0.33043594	0.0097	0.0301176
AT5G22875	33.3666	24.1331	-0.467391438	0.00385	0.0137217
AT5G22890	11.1503	13.7987	0.307449828	0.0151	0.0437129
AT5G22920	96.039	44.1718	-1.120494758	0.00005	0.000282578
AT5G22930	3.16707	5.24328	0.727320835	0.00015	0.000779873
AT5G22940	9.24006	6.44155	-0.520494341	0.00005	0.000282578
AT5G23020	21.0677	33.3476	0.662550114	0.00005	0.000282578
AT5G23040	161.027	101.487	-0.666007674	0.00005	0.000282578
AT5G23050	19.2846	45.8732	1.250202328	0.00005	0.000282578
AT5G23100	8.18775	10.5393	0.364240091	0.00855	0.0270622
AT5G23110	4.64675	5.58742	0.265960242	0.0085	0.0269248
AT5G23120	253.519	141.513	-0.841159283	0.00005	0.000282578
AT5G23140	24.6583	20.0348	-0.299565233	0.0084	0.0266576
AT5G23190	4.78521	8.85792	0.888385729	0.00005	0.000282578
AT5G23210	55.6042	44.391	-0.324926651	0.0021	0.00813349
AT5G23230	5.27148	7.9787	0.597945638	0.00855	0.0270622
AT5G23240	32.5985	231.701	2.829386784	0.00005	0.000282578
AT5G23310	25.5407	33.2445	0.380317614	0.00105	0.00443869
AT5G23360	4.74834	6.63697	0.483101512	0.01725	0.0488461
AT5G23370	1.32776	4.19665	1.660243753	0.00005	0.000282578
AT5G23380	10.1507	7.00066	-0.536016374	0.00115	0.00480526
AT5G23400	7.03241	4.50094	-0.643792851	0.00005	0.000282578
AT5G23420	20.4164	12.9113	-0.661094231	0.00005	0.000282578
AT5G23440	41.5636	33.4047	-0.315269515	0.0066	0.0217257

AT5G23490	7.66398	5.81524	-0.398255062	0.00175	0.00694124
AT5G23535	19.1831	24.2547	0.338428456	0.0086	0.0272015
AT5G23540	76.1412	53.3613	-0.512883493	0.00005	0.000282578
AT5G23575	90.9937	53.2478	-0.773044743	0.00005	0.000282578
AT5G23630	22.2208	27.8385	0.32517072	0.0011	0.00462106
AT5G23660	42.6263	96.0033	1.171340164	0.00005	0.000282578
AT5G23690	4.55215	6.18879	0.443109271	0.00385	0.0137217
AT5G23700	2.02163	0.375953	-2.42689476	0.0001	0.000537698
AT5G23720	9.12701	6.20258	-0.557273874	0.00005	0.000282578
AT5G23730	4.2139	7.46392	0.824777445	0.00005	0.000282578
AT5G23820	219.071	139.731	-0.648746392	0.00005	0.000282578
AT5G23830	22.8297	42.753	0.905113757	0.00005	0.000282578
AT5G23840	3.73464	11.1891	1.583052911	0.00005	0.000282578
AT5G23850	3.88401	7.47048	0.943654028	0.00005	0.000282578
AT5G23860	69.1475	56.2636	-0.297475226	0.0035	0.0126552
AT5G23870	11.0677	6.69745	-0.724671633	0.00005	0.000282578
AT5G23910	7.1557	2.87426	-1.315902333	0.00005	0.000282578
AT5G23920	63.5726	96.5497	0.602866683	0.00005	0.000282578
AT5G23940	27.6933	19.1902	-0.529167232	0.00005	0.000282578
AT5G23980	17.4204	8.4971	-1.035735302	0.00005	0.000282578
AT5G23990	7.91792	3.50253	-1.176724083	0.00005	0.000282578
AT5G24000	5.32387	7.4337	0.481605123	0.00165	0.00658915
AT5G24030	24.4641	11.5269	-1.085661637	0.00005	0.000282578
AT5G24110	0.223669	2.96512	3.728653271	0.0001	0.000537698
AT5G24120	14.7411	11.9224	-0.306169502	0.0082	0.026125
AT5G24150	2.80954	22.8188	3.021817079	0.00005	0.000282578
AT5G24155	3.41837	20.8611	2.609434767	0.00005	0.000282578
AT5G24160	13.6866	76.6226	2.485005881	0.00005	0.000282578
AT5G24210	9.2437	43.6438	2.239234377	0.00005	0.000282578
AT5G24240	5.00825	7.23498	0.530682449	0.00325	0.0118728
AT5G24280	1.06537	2.87911	1.434268349	0.00005	0.000282578
AT5G24300	90.7587	53.29	-0.768171111	0.00005	0.000282578
AT5G24314	135.098	76.5669	-0.819213565	0.00005	0.000282578
AT5G24380	18.7892	53.3944	1.506784799	0.00005	0.000282578
AT5G24390	0.869265	2.57372	1.565987146	0.0052	0.0177382
AT5G24410	3.72559	2.48993	-0.581363731	0.0127	0.0378086
AT5G24420	5.41164	3.38281	-0.677843721	0.0007	0.00310863
AT5G24450	28.8063	22.0901	-0.382984417	0.0005	0.00230701
AT5G24460	46.6718	34.6211	-0.430899546	0.00005	0.000282578
AT5G24470	83.3949	22.0987	-1.915997656	0.00005	0.000282578
AT5G24490	653.362	134.904	-2.275949423	0.00005	0.000282578
AT5G24520	43.6575	29.4224	-0.569314586	0.00005	0.000282578
AT5G24530	11.6898	53.0179	2.18122928	0.00005	0.000282578
AT5G24570	105.697	40.2514	-1.392823561	0.00005	0.000282578
AT5G24590	12.8875	16.7648	0.379462845	0.00075	0.0032996
AT5G24600	0.458985	2.30512	2.328322945	0.00005	0.000282578
AT5G24610	77.9405	55.161	-0.498724575	0.00005	0.000282578

AT5G24655	3.52101	9.7641	1.471497746	0.00005	0.000282578
AT5G24660	13.8877	79.1023	2.509911955	0.00005	0.000282578
AT5G24670	30.8536	36.7827	0.25358855	0.0155	0.0446831
AT5G24760	8.53246	12.4266	0.542397968	0.00005	0.000282578
AT5G24770	2.47288	62.2249	4.653227869	0.00005	0.000282578
AT5G24780	15.7253	41.2986	1.393005335	0.00005	0.000282578
AT5G24800	46.5402	29.4113	-0.662106857	0.00095	0.00406118
AT5G24810	14.2542	18.0955	0.3442439	0.00845	0.0267941
AT5G24870	6.2222	12.8754	1.04912058	0.00005	0.000282578
AT5G24900	0.231503	0.629284	1.442680373	0.00555	0.0187351
AT5G24920	7.64363	4.69426	-0.703360194	0.003	0.0110887
AT5G24930	253.571	138.625	-0.871202299	0.00005	0.000282578
AT5G25040	9.13384	16.6237	0.863948101	0.00005	0.000282578
AT5G25090	16.7108	9.05064	-0.884689083	0.0007	0.00310863
AT5G25100	78.4821	64.5709	-0.28147951	0.0059	0.019741
AT5G25110	6.21503	7.95138	0.355443914	0.01305	0.0386862
AT5G25120	11.3976	22.64	0.990143891	0.00005	0.000282578
AT5G25130	1.39131	2.77268	0.994837217	0.00005	0.000282578
AT5G25190	6.47485	1.99414	-1.699080072	0.00005	0.000282578
AT5G25210	16.9139	9.02218	-0.90666138	0.00005	0.000282578
AT5G25220	22.6297	36.6146	0.694201576	0.00005	0.000282578
AT5G25240	6.22739	9.20213	0.563340205	0.0126	0.0375592
AT5G25250	3.36089	7.40682	1.140010953	0.00005	0.000282578
AT5G25265	87.5228	53.0024	-0.723601205	0.00005	0.000282578
AT5G25280	104.845	132.582	0.338626859	0.00065	0.00291062
AT5G25370	1.57808	0.645744	-1.289136105	0.00005	0.000282578
AT5G25440	6.16004	12.4152	1.011095878	0.00005	0.000282578
AT5G25450	1.03876	13.7674	3.728321859	0.00005	0.000282578
AT5G25460	281.442	167.964	-0.744685589	0.00005	0.000282578
AT5G25475	5.59639	7.52673	0.427526716	0.0149	0.0432411
AT5G25510	21.6479	14.4621	-0.581950023	0.00005	0.000282578
AT5G25610	304.587	100.618	-1.597965949	0.00005	0.000282578
AT5G25620	3.19521	5.43988	0.767664074	0.00005	0.000282578
AT5G25755	2.53825	4.55182	0.842609336	0.0017	0.00676327
AT5G25760	51.5982	37.779	-0.449736224	0.0109	0.0332243
AT5G25800	6.11513	4.73742	-0.368281588	0.01175	0.0354077
AT5G25810	13.0298	5.94151	-1.132913404	0.00005	0.000282578
AT5G25890	18.8079	31.4061	0.739706027	0.00005	0.000282578
AT5G25900	25.1478	12.5033	-1.008123278	0.00005	0.000282578
AT5G25930	4.16585	8.99109	1.109885133	0.00005	0.000282578
AT5G25970	0.923767	0.394026	-1.22923818	0.0048	0.0165649
AT5G25980	185.875	88.4857	-1.070816514	0.00005	0.000282578
AT5G26000	1307.68	765.876	-0.77182681	0.00005	0.000282578
AT5G26010	10.1125	3.04073	-1.733650079	0.00005	0.000282578
AT5G26030	24.0957	29.967	0.31459895	0.0065	0.021442
AT5G26080	6.56848	2.68003	-1.293310408	0.0002	0.00101248
AT5G26160	3.99979	5.93137	0.568441114	0.00005	0.000282578

AT5G26180	5.95531	9.68533	0.701624597	0.00005	0.000282578
AT5G26200	9.36356	2.06526	-2.180733726	0.00005	0.000282578
AT5G26220	3.50078	14.4281	2.043133021	0.00005	0.000282578
AT5G26240	21.1078	16.2791	-0.374755277	0.00015	0.000779873
AT5G26260	106.281	164.862	0.633375195	0.00005	0.000282578
AT5G26280	295.882	219.557	-0.430426401	0.00005	0.000282578
AT5G26290	15.9139	12.2722	-0.374893539	0.0066	0.0217257
AT5G26310	4.61511	6.32131	0.453858532	0.00375	0.0134211
AT5G26340	27.2103	41.382	0.60485051	0.00005	0.000282578
AT5G26570	64.2448	85.9513	0.419939774	0.00005	0.000282578
AT5G26600	14.4615	24.5864	0.765643306	0.00005	0.000282578
AT5G26610	22.1667	17.2854	-0.35884002	0.00385	0.0137217
AT5G26670	6.70218	2.88715	-1.21498437	0.00005	0.000282578
AT5G26680	7.774	10.2388	0.397317627	0.00415	0.0146251
AT5G26710	27.1315	21.2193	-0.354591747	0.00055	0.00251246
AT5G26740	26.7826	20.7734	-0.366558659	0.00065	0.00291062
AT5G26749	4.49464	2.18914	-1.037841346	0.01375	0.0404397
AT5G26760	12.4232	15.6649	0.334498725	0.00375	0.0134211
AT5G26780	29.8871	21.6729	-0.463630706	0.00005	0.000282578
AT5G26800	23.0107	34.6291	0.589680021	0.00015	0.000779873
AT5G26850	22.4796	13.7756	-0.706501207	0.00005	0.000282578
AT5G26860	8.65848	15.6115	0.850423476	0.00005	0.000282578
AT5G26880	48.8306	72.076	0.561733443	0.00005	0.000282578
AT5G26910	10.5983	7.01419	-0.595484455	0.00005	0.000282578
AT5G26920	4.49784	10.7554	1.257756934	0.00005	0.000282578
AT5G26940	12.0108	8.77472	-0.452907252	0.00045	0.00210009
AT5G26960	11.8585	15.0274	0.341673887	0.00585	0.0195962
AT5G26970	0	0.673255	inf	0.00005	0.000282578
AT5G27030	7.50952	10.7605	0.518952516	0.00005	0.000282578
AT5G27110	0.940681	1.90074	1.014783731	0.0002	0.00101248
AT5G27150	36.0164	47.5869	0.40191049	0.0001	0.000537698
AT5G27220	1.22423	0.561374	-1.124840475	0.00005	0.000282578
AT5G27230	0.577713	0.960885	0.734010818	0.00575	0.0193124
AT5G27240	5.99438	4.58677	-0.386131977	0.00145	0.00588787
AT5G27280	98.8507	56.2193	-0.814185692	0.00005	0.000282578
AT5G27290	41.5874	22.6759	-0.87498668	0.00005	0.000282578
AT5G27330	10.996	8.65065	-0.346098368	0.00365	0.0131214
AT5G27360	14.0309	6.93782	-1.016053236	0.00005	0.000282578
AT5G27380	100.218	66.6987	-0.587411104	0.00005	0.000282578
AT5G27390	36.5691	24.205	-0.595320027	0.00005	0.000282578
AT5G27410	15.331	9.55055	-0.68279608	0.0001	0.000537698
AT5G27420	6.04254	16.8439	1.478999192	0.00005	0.000282578
AT5G27470	60.0322	45.1299	-0.411652958	0.00005	0.000282578
AT5G27560	40.807	25.5328	-0.676464896	0.00005	0.000282578
AT5G27600	15.9126	32.4264	1.026999283	0.00005	0.000282578
AT5G27620	5.74045	8.98568	0.646463849	0.00005	0.000282578
AT5G27670	58.7533	43.7682	-0.424786833	0.0001	0.000537698

AT5G27680	2.07183	1.16846	-0.826297283	0.00005	0.000282578
AT5G27710	14.5482	20.0584	0.463365867	0.00285	0.010609
AT5G27740	21.1088	15.4649	-0.448847062	0.00005	0.000282578
AT5G27765	0	0.711589	inf	0.00915	0.0286771
AT5G27770	123.378	98.5096	-0.324748934	0.00195	0.00762526
AT5G27920	13.6456	8.85975	-0.623097936	0.00005	0.000282578
AT5G27950	22.2223	16.81	-0.402688418	0.0001	0.000537698
AT5G28020	89.724	40.1185	-1.161226273	0.00005	0.000282578
AT5G28050	117.472	74.4538	-0.657899536	0.00005	0.000282578
AT5G28080	3.35	1.45637	-1.201784168	0.00005	0.000282578
AT5G28290	11.9544	6.01919	-0.98990046	0.00005	0.000282578
AT5G28300	19.3506	14.532	-0.41314503	0.00015	0.000779873
AT5G28540	83.6117	177.915	1.089411408	0.00005	0.000282578
AT5G28640	9.32325	4.77203	-0.96622984	0.00005	0.000282578
AT5G28750	161.319	101.982	-0.661601831	0.00005	0.000282578
AT5G28770	49.2718	25.7447	-0.936486719	0.00005	0.000282578
AT5G28900	22.1056	18.5398	-0.253786212	0.01745	0.0493019
AT5G29000	9.53744	13.4714	0.498225808	0.0004	0.00188925
AT5G30510	305.239	219.337	-0.476790104	0.00005	0.000282578
AT5G32450	65.0657	44.2314	-0.556826307	0.00005	0.000282578
AT5G32470	14.2054	11.7264	-0.276679281	0.0154	0.0444419
AT5G33290	12.419	21.041	0.760654262	0.00005	0.000282578
AT5G33300	4.89292	3.14693	-0.636750607	0.0007	0.00310863
AT5G33370	8.91862	5.62003	-0.666242664	0.00005	0.000282578
AT5G34850	89.2241	122.629	0.458794847	0.00005	0.000282578
AT5G34940	9.20521	5.37656	-0.775767223	0.00005	0.000282578
AT5G35080	14.8407	20.2381	0.447514711	0.0003	0.00145851
AT5G35100	85.6116	43.0791	-0.990818179	0.00005	0.000282578
AT5G35170	145.383	84.747	-0.778624378	0.00005	0.000282578
AT5G35180	48.1113	31.5985	-0.606519708	0.00005	0.000282578
AT5G35190	38.954	27.2523	-0.515393486	0.00005	0.000282578
AT5G35210	25.2365	30.9747	0.29557847	0.00325	0.0118728
AT5G35220	30.3288	36.876	0.281993756	0.00745	0.0241032
AT5G35320	8.98494	16.5769	0.883593463	0.00005	0.000282578
AT5G35360	159.968	77.2673	-1.049853446	0.00005	0.000282578
AT5G35400	4.05136	2.53476	-0.676557133	0.0011	0.00462106
AT5G35430	15.8844	18.9933	0.257879993	0.01495	0.0433596
AT5G35450	5.41368	7.44059	0.458807411	0.00005	0.000282578
AT5G35460	32.0546	19.9865	-0.681505554	0.00005	0.000282578
AT5G35480	7.76483	1.7751	-2.129054038	0.00005	0.000282578
AT5G35525	4.73239	1.9935	-1.247265367	0.0007	0.00310863
AT5G35560	25.2041	21.0421	-0.260379746	0.0114	0.034515
AT5G35580	4.0619	6.87197	0.758569016	0.00005	0.000282578
AT5G35590	81.113	66.5975	-0.284465133	0.0053	0.0180196
AT5G35620	76.8889	58.1426	-0.403179753	0.0001	0.000537698
AT5G35730	23.163	18.8624	-0.296308867	0.00725	0.0235462
AT5G35732	11.2427	20.4704	0.864550745	0.00005	0.000282578

AT5G35735	72.0922	100.353	0.477168665	0.00005	0.000282578
AT5G35750	12.3263	10.1455	-0.280899842	0.0083	0.0263922
AT5G35790	70.0903	53.459	-0.390781948	0.0001	0.000537698
AT5G35840	13.5003	16.2017	0.263153732	0.0117	0.0352839
AT5G35940	2.67193	4.26127	0.673401253	0.0007	0.00310863
AT5G35970	125.939	9.98813	-3.656366708	0.00005	0.000282578
AT5G35980	40.7832	32.9319	-0.308489229	0.00135	0.00552942
AT5G36001	4.03114	2.59647	-0.634636332	0.00235	0.00897001
AT5G36120	49.883	26.1405	-0.932261496	0.00005	0.000282578
AT5G36130	5.12271	2.59799	-0.979511345	0.00185	0.00728767
AT5G36180	14.1047	11.3467	-0.313903206	0.0147	0.0427366
AT5G36210	27.8205	20.4473	-0.444237996	0.00005	0.000282578
AT5G36220	7.66594	12.9973	0.761677344	0.00005	0.000282578
AT5G36230	124.566	96.9843	-0.361087217	0.00015	0.000779873
AT5G36250	22.1368	16.5707	-0.417812139	0.00005	0.000282578
AT5G36260	1.18008	0.542344	-1.121604541	0.0021	0.00813349
AT5G36870	0.479093	0.287275	-0.737873286	0.00535	0.0181609
AT5G36890	17.242	11.1252	-0.632095859	0.00005	0.000282578
AT5G36907	0.871975	2.31479	1.408522639	0.01755	0.0495297
AT5G36910	116.481	19.6575	-2.566942887	0.00005	0.000282578
AT5G36925	0.741788	2.27489	1.616717952	0.00185	0.00728767
AT5G36930	5.0867	12.0176	1.240346893	0.00005	0.000282578
AT5G37010	5.48708	3.41849	-0.682679405	0.00005	0.000282578
AT5G37020	17.5215	14.3862	-0.284440722	0.0072	0.0234061
AT5G37070	17.3974	21.9745	0.336958624	0.0131	0.0388035
AT5G37260	5.07843	94.9088	4.2240874	0.00005	0.000282578
AT5G37300	0.167544	0.853332	2.348567128	0.00035	0.00167549
AT5G37310	16.8919	27.5334	0.704851163	0.00005	0.000282578
AT5G37340	2.70544	4.923	0.863674493	0.00005	0.000282578
AT5G37360	119.96	45.0944	-1.411533237	0.00005	0.000282578
AT5G37380	10.8784	14.1302	0.377315506	0.00225	0.00863481
AT5G37410	0.919182	1.6468	0.841242902	0.0015	0.00606399
AT5G37440	1.27732	2.72075	1.090884398	0.00025	0.00123846
AT5G37490	0.132695	0.497946	1.907875287	0.011	0.0334933
AT5G37540	9.30198	15.1658	0.705211859	0.00005	0.000282578
AT5G37550	0.82733	2.9355	1.827071455	0.0001	0.000537698
AT5G37570	0.786982	1.97869	1.33014306	0.00005	0.000282578
AT5G37590	4.34934	6.62871	0.607931645	0.0001	0.000537698
AT5G37630	4.28091	2.78186	-0.621867689	0.00005	0.000282578
AT5G37670	2.59951	6.99394	1.427865714	0.00005	0.000282578
AT5G37690	14.0176	19.6525	0.487473488	0.0001	0.000537698
AT5G37740	38.9505	68.6005	0.816577244	0.00005	0.000282578
AT5G37770	38.0717	49.2821	0.372344742	0.00095	0.00406118
AT5G37830	22.3334	28.2306	0.33805689	0.00085	0.00368886
AT5G37940	0.764358	0.088078	-3.117401444	0.0111	0.0337467
AT5G37980	0.359812	2.53321	2.815651472	0.00005	0.000282578
AT5G37990	53.564	111.953	1.063557583	0.00005	0.000282578



AT5G38000	2.3585	7.71442	1.709688093	0.00005	0.000282578
AT5G38010	3.22278	5.50399	0.772172141	0.00005	0.000282578
AT5G38020	18.2744	12.8627	-0.50663053	0.00005	0.000282578
AT5G38110	8.32246	5.59434	-0.573042094	0.00135	0.00552942
AT5G38140	13.7584	8.32811	-0.724251676	0.00005	0.000282578
AT5G38150	23.7207	15.2276	-0.639458006	0.00005	0.000282578
AT5G38200	13.8051	19.4665	0.495792178	0.00005	0.000282578
AT5G38220	15.8506	10.5816	-0.582979664	0.00005	0.000282578
AT5G38240	0.348477	1.66545	2.256776698	0.00005	0.000282578
AT5G38250	0.201803	0.970458	2.265718155	0.0002	0.00101248
AT5G38300	3.83981	1.44463	-1.41033489	0.00005	0.000282578
AT5G38410	5649.71	4037.45	-0.484732422	0.00095	0.00406118
AT5G38420	4359.95	3357.1	-0.377096078	0.00475	0.0164173
AT5G38430	1628.9	2313.85	0.506397304	0.00005	0.000282578
AT5G38470	108.195	90.4904	-0.257797178	0.0095	0.029588
AT5G38480	222.546	111.856	-0.992460925	0.00005	0.000282578
AT5G38520	97.8915	44.0785	-1.151108465	0.00005	0.000282578
AT5G38530	33.7381	23.3115	-0.53333689	0.00005	0.000282578
AT5G38565	0.365518	1.01781	1.477453912	0.00085	0.00368886
AT5G38590	5.57833	3.70975	-0.588511316	0.00095	0.00406118
AT5G38600	12.1134	9.46161	-0.356446258	0.00825	0.0262625
AT5G38660	112.752	64.2316	-0.811797885	0.00005	0.000282578
AT5G38690	7.73947	4.54208	-0.768881657	0.00005	0.000282578
AT5G38710	5.22678	14.3169	1.453724802	0.00005	0.000282578
AT5G38730	1.06728	1.6713	0.647032006	0.0086	0.0272015
AT5G38780	2.64828	3.87222	0.548105257	0.0069	0.0225733
AT5G38840	15.1958	12.5719	-0.273469927	0.01465	0.0426155
AT5G38865	19.1906	10.8745	-0.81945075	0.01285	0.0381931
AT5G38890	6.06723	10.3208	0.766444895	0.00005	0.000282578
AT5G38895	8.04949	16.153	1.004832848	0.00005	0.000282578
AT5G38900	1.72918	10.7695	2.638791311	0.00005	0.000282578
AT5G38930	4.71657	0.344143	-3.776658009	0.0001	0.000537698
AT5G38940	27.7297	6.10754	-2.182768696	0.00005	0.000282578
AT5G38970	2.37987	1.58245	-0.588722853	0.00885	0.0278636
AT5G38980	116.426	354.082	1.604670231	0.00005	0.000282578
AT5G38990	15.4263	26.1783	0.76297934	0.00005	0.000282578
AT5G39020	3.4022	7.54462	1.148980285	0.00005	0.000282578
AT5G39030	2.89386	8.15697	1.495038218	0.00005	0.000282578
AT5G39040	20.0018	14.5431	-0.459795011	0.00005	0.000282578
AT5G39050	21.2997	31.1731	0.54946852	0.00005	0.000282578
AT5G39080	28.7154	20.898	-0.45845978	0.00005	0.000282578
AT5G39100	0	1.30667	inf	0.00005	0.000282578
AT5G39110	0.207934	1.4297	2.781514869	0.0121	0.0363089
AT5G39120	0.542982	2.16253	1.993743869	0.0011	0.00462106
AT5G39160	0.63843	3.35288	2.392800499	0.00005	0.000282578
AT5G39190	2.25694	9.324	2.046580939	0.00005	0.000282578
AT5G39320	35.6468	25.5181	-0.482251658	0.00005	0.000282578

AT5G39380	2.5506	3.61582	0.503486196	0.00565	0.0190219
AT5G39450	2.70796	3.88636	0.521213118	0.0025	0.00945953
AT5G39510	91.615	75.4765	-0.279556304	0.00655	0.021582
AT5G39530	69.9616	21.5824	-1.69670798	0.00005	0.000282578
AT5G39550	6.52549	3.63994	-0.842171568	0.00005	0.000282578
AT5G39570	246.713	189.465	-0.380902374	0.00005	0.000282578
AT5G39580	26.3311	50.9013	0.95093471	0.00005	0.000282578
AT5G39590	80.7369	58.0809	-0.475164385	0.00005	0.000282578
AT5G39610	14.3178	20.9264	0.547514311	0.00005	0.000282578
AT5G39660	4.55712	7.71923	0.760334584	0.00005	0.000282578
AT5G39670	1.21051	16.4834	3.767326953	0.00005	0.000282578
AT5G39790	7.22266	9.44896	0.387625289	0.01035	0.0318215
AT5G39830	42.8709	29.1674	-0.555641915	0.00005	0.000282578
AT5G39840	3.47205	4.61894	0.411774082	0.0047	0.0162675
AT5G39850	7.20339	27.5479	1.935194424	0.00005	0.000282578
AT5G39860	3.03529	0.941244	-1.689193694	0.0002	0.00101248
AT5G39890	1.54092	4.55399	1.56333916	0.00005	0.000282578
AT5G39950	93.2953	141.168	0.597536787	0.00005	0.000282578
AT5G39970	4.5424	7.27543	0.679577764	0.0006	0.00271108
AT5G40020	3.96833	13.3098	1.745884985	0.00005	0.000282578
AT5G40060	5.4092	7.16776	0.406107091	0.00035	0.00167549
AT5G40100	1.73806	0.904239	-0.942701839	0.00015	0.000779873
AT5G40140	5.23844	7.48493	0.514851581	0.00005	0.000282578
AT5G40170	37.1677	25.5114	-0.542907342	0.00005	0.000282578
AT5G40180	3.53176	1.35543	-1.3816367	0.00085	0.00368886
AT5G40200	22.441	17.7249	-0.340359478	0.00205	0.00796423
AT5G40240	14.5535	22.6413	0.637590645	0.00005	0.000282578
AT5G40250	12.4807	22.3689	0.841795461	0.00005	0.000282578
AT5G40270	6.53066	8.91577	0.449130599	0.00105	0.00443869
AT5G40330	4.4624	2.92986	-0.606988111	0.0123	0.0368055
AT5G40340	15.17	11.9486	-0.344379496	0.0011	0.00462106
AT5G40370	104.051	84.8705	-0.293955748	0.00485	0.0167116
AT5G40380	9.29719	5.2129	-0.834708555	0.00005	0.000282578
AT5G40390	20.4351	13.6992	-0.576957658	0.00005	0.000282578
AT5G40410	0.159912	0.580489	1.859990524	0.0048	0.0165649
AT5G40450	85.3002	55.4598	-0.62110671	0.00005	0.000282578
AT5G40480	8.5107	13.12	0.624418017	0.00005	0.000282578
AT5G40490	11.4597	14.36	0.325486472	0.00785	0.0252038
AT5G40500	40.0041	20.2277	-0.983815582	0.00005	0.000282578
AT5G40590	4.48982	1.17023	-1.939865499	0.00005	0.000282578
AT5G40630	1.03336	2.59051	1.325893208	0.0009	0.00387377
AT5G40640	5.00383	3.84077	-0.381637204	0.0131	0.0388035
AT5G40690	21.6292	36.8252	0.767713055	0.00005	0.000282578
AT5G40700	6.13079	4.29146	-0.514604437	0.0037	0.0132727
AT5G40720	4.39318	5.86489	0.416838438	0.00505	0.0172987
AT5G40730	56.7351	41.3084	-0.457806374	0.0002	0.00101248
AT5G40740	10.5966	7.71707	-0.457476342	0.0001	0.000537698

AT5G40770	26.9768	33.9644	0.332304143	0.0011	0.00462106
AT5G40870	22.6957	15.5671	-0.543918776	0.00005	0.000282578
AT5G40890	82.8172	55.9747	-0.565155536	0.00005	0.000282578
AT5G40950	479.615	244.506	-0.972006912	0.00005	0.000282578
AT5G40990	0	1.25277	inf	0.00005	0.000282578
AT5G41010	17.6703	28.3185	0.680418316	0.00005	0.000282578
AT5G41040	18.5994	25.809	0.472618162	0.00135	0.00552942
AT5G41060	11.8971	7.5671	-0.652797534	0.00005	0.000282578
AT5G41080	27.5746	55.4949	1.009015235	0.00005	0.000282578
AT5G41120	3.07084	5.65272	0.880311891	0.00005	0.000282578
AT5G41130	5.20424	3.33078	-0.643827429	0.00005	0.000282578
AT5G41140	27.6036	11.4265	-1.272472867	0.00005	0.000282578
AT5G41210	52.9412	67.8732	0.358451137	0.00065	0.00291062
AT5G41240	8.5733	6.19776	-0.468103738	0.0006	0.00271108
AT5G41260	33.6511	27.7537	-0.277973547	0.00595	0.0198839
AT5G41340	34.4145	23.8543	-0.528767198	0.00005	0.000282578
AT5G41360	7.07286	9.70657	0.456667877	0.00005	0.000282578
AT5G41400	12.2141	27.5764	1.174886568	0.00005	0.000282578
AT5G41480	9.53348	7.44711	-0.356322269	0.0081	0.0258615
AT5G41590	2.10585	0.90019	-1.226101233	0.00485	0.0167116
AT5G41650	1.13849	2.81331	1.305146913	0.0054	0.0183008
AT5G41670	44.1083	36.0002	-0.293045236	0.00525	0.0178784
AT5G41700	522.438	657.332	0.331362383	0.0015	0.00606399
AT5G41740	3.0097	6.58389	1.129320543	0.00005	0.000282578
AT5G41750	0.621347	3.48565	2.487956621	0.00005	0.000282578
AT5G41790	29.8371	39.0243	0.387265434	0.00015	0.000779873
AT5G41850	4.52115	7.64698	0.758200318	0.0161	0.0461351
AT5G41880	5.314	3.77722	-0.492473413	0.0038	0.0135703
AT5G41900	4.47894	1.29792	-1.786955877	0.00005	0.000282578
AT5G41910	4.67439	2.75932	-0.760465331	0.0009	0.00387377
AT5G41920	13.5973	10.362	-0.392017717	0.0018	0.00711608
AT5G41950	37.3752	27.9756	-0.417912226	0.0002	0.00101248
AT5G42000	27.2372	22.2062	-0.294615866	0.0123	0.0368055
AT5G42020	73.2445	143.468	0.96993665	0.00005	0.000282578
AT5G42050	76.9764	137.993	0.842106978	0.00005	0.000282578
AT5G42060	7.61146	13.5186	0.828700635	0.0005	0.00230701
AT5G42070	68.9137	26.7675	-1.364308416	0.00005	0.000282578
AT5G42100	60.692	51.0312	-0.250126796	0.01605	0.0460241
AT5G42140	6.75168	5.47872	-0.301407654	0.01015	0.0312969
AT5G42150	12.0398	15.7899	0.391190608	0.0011	0.00462106
AT5G42190	108.83	82.4028	-0.401311038	0.00175	0.00694124
AT5G42200	6.58351	10.6657	0.696049787	0.00015	0.000779873
AT5G42220	25.3449	30.6405	0.273744368	0.007	0.0228553
AT5G42240	20.4103	13.2259	-0.625931489	0.00005	0.000282578
AT5G42250	56.2502	19.5745	-1.522882769	0.00005	0.000282578
AT5G42270	249.532	155.436	-0.682904159	0.00005	0.000282578
AT5G42300	92.0404	112.173	0.285386303	0.00425	0.0149278

AT5G42330	7.03662	4.13425	-0.767256973	0.00065	0.00291062
AT5G42370	2.44317	7.0987	1.538800593	0.00005	0.000282578
AT5G42380	0.100939	0.955038	3.242074439	0.0042	0.0147771
AT5G42420	31.3437	23.2673	-0.429871688	0.00015	0.000779873
AT5G42440	5.30034	7.59027	0.518066299	0.00095	0.00406118
AT5G42450	0.685264	1.30413	0.928355887	0.00545	0.0184447
AT5G42480	17.17	12.6065	-0.44572225	0.00005	0.000282578
AT5G42500	11.1708	15.1935	0.443721741	0.0027	0.0101192
AT5G42520	44.2436	32.2178	-0.457610796	0.00005	0.000282578
AT5G42530	51.6806	662.028	3.679197511	0.00005	0.000282578
AT5G42560	30.6378	24.4837	-0.32349111	0.00325	0.0118728
AT5G42570	20.4547	27.9597	0.450916503	0.0002	0.00101248
AT5G42580	5.08867	13.5914	1.41733353	0.00005	0.000282578
AT5G42590	8.33947	13.9192	0.739048691	0.00005	0.000282578
AT5G42630	1.32775	2.86432	1.109209149	0.0003	0.00145851
AT5G42680	7.22683	11.1683	0.627974738	0.00035	0.00167549
AT5G42700	2.1852	0.593278	-1.880985137	0.0006	0.00271108
AT5G42750	7.02517	15.3252	1.12530086	0.00005	0.000282578
AT5G42760	2.57833	10.2635	1.993013964	0.00005	0.000282578
AT5G42765	42.9671	25.4473	-0.755719816	0.00005	0.000282578
AT5G42780	4.0476	5.88161	0.5391444	0.0099	0.0306393
AT5G42785	3.34081	5.64557	0.756921313	0.00695	0.0227126
AT5G42800	1.36369	0.65568	-1.056451927	0.00325	0.0118728
AT5G42825	34.2114	59.7853	0.805313655	0.0001	0.000537698
AT5G42830	2.90572	7.57145	1.381673926	0.00005	0.000282578
AT5G42850	47.2035	85.4477	0.856147824	0.00005	0.000282578
AT5G42880	6.89648	3.87903	-0.830164257	0.00005	0.000282578
AT5G42890	65.2866	85.2044	0.384141023	0.0003	0.00145851
AT5G42900	19.0527	65.2539	1.776068669	0.00005	0.000282578
AT5G42920	15.5137	20.572	0.40713925	0.00025	0.00123846
AT5G42950	22.7515	18.509	-0.297734713	0.0022	0.00846997
AT5G43010	37.6886	30.5778	-0.301643593	0.00425	0.0149278
AT5G43050	14.6075	8.80655	-0.730060436	0.00005	0.000282578
AT5G43080	2.38772	1.36086	-0.811115011	0.00195	0.00762526
AT5G43140	8.88785	5.73056	-0.63315834	0.0004	0.00188925
AT5G43150	31.334	75.0422	1.259973172	0.00005	0.000282578
AT5G43170	10.3934	14.562	0.486540833	0.0169	0.0480113
AT5G43180	11.4496	4.00002	-1.517218079	0.00005	0.000282578
AT5G43190	12.4754	16.9247	0.440044188	0.00025	0.00123846
AT5G43290	5.61304	2.51843	-1.156257709	0.00005	0.000282578
AT5G43300	1.37103	2.87012	1.065850918	0.00005	0.000282578
AT5G43310	18.7848	13.1	-0.519998944	0.00005	0.000282578
AT5G43330	24.1761	47.0606	0.960938181	0.00005	0.000282578
AT5G43350	85.0495	103.59	0.284510081	0.0054	0.0183008
AT5G43380	2.17287	5.70254	1.392002799	0.00005	0.000282578
AT5G43400	5.42262	7.03599	0.375763358	0.0055	0.0185914
AT5G43420	4.54562	7.52549	0.727308437	0.00005	0.000282578

AT5G43440	67.0742	45.8829	-0.547801364	0.00005	0.000282578
AT5G43460	72.4879	56.276	-0.365220406	0.0006	0.00271108
AT5G43500	11.2139	8.87011	-0.338264209	0.00435	0.0152293
AT5G43520	13.0028	4.13087	-1.65430476	0.00005	0.000282578
AT5G43580	38.3601	8.55401	-2.164933682	0.00005	0.000282578
AT5G43600	25.5759	14.8558	-0.783758711	0.00005	0.000282578
AT5G43660	0.507761	1.24545	1.29444561	0.00085	0.00368886
AT5G43700	60.3666	44.3136	-0.446001012	0.00005	0.000282578
AT5G43745	14.4316	8.67995	-0.73347262	0.00005	0.000282578
AT5G43750	153.072	82.4552	-0.892528024	0.00005	0.000282578
AT5G43760	90.1525	68.7355	-0.391312095	0.00005	0.000282578
AT5G43810	17.6052	14.6267	-0.267397304	0.01135	0.0343831
AT5G43830	161.57	96.9385	-0.737017682	0.00005	0.000282578
AT5G43870	12.91	6.79493	-0.925958407	0.00005	0.000282578
AT5G43880	21.1071	13.3508	-0.660802181	0.00005	0.000282578
AT5G43890	1.29305	0.684927	-0.916755925	0.0049	0.016855
AT5G43920	8.75572	13.2182	0.594228006	0.00005	0.000282578
AT5G43970	72.7627	58.3495	-0.318478785	0.0062	0.0206032
AT5G44000	27.6846	21.0564	-0.394824877	0.00235	0.00897001
AT5G44005	14.3014	26.548	0.892446796	0.00005	0.000282578
AT5G44010	4.15578	2.6815	-0.632079029	0.0024	0.0091296
AT5G44020	686.278	229.948	-1.577485457	0.00005	0.000282578
AT5G44050	3.2349	1.39703	-1.211358113	0.00005	0.000282578
AT5G44060	22.2509	17.4625	-0.349603575	0.0031	0.0114009
AT5G44100	42.5895	32.254	-0.401019704	0.00005	0.000282578
AT5G44110	13.2149	10.1907	-0.374912354	0.0093	0.029061
AT5G44120	1.3399	2.42313	0.854746474	0.00095	0.00406118
AT5G44130	109.874	144.214	0.39236119	0.0001	0.000537698
AT5G44190	117.742	41.3856	-1.50842826	0.00005	0.000282578
AT5G44200	28.0565	22.6377	-0.309607659	0.0068	0.0222907
AT5G44210	7.1094	3.71149	-0.937729327	0.00005	0.000282578
AT5G44230	2.22771	3.12602	0.488765572	0.0052	0.0177382
AT5G44240	24.5074	32.9052	0.425098154	0.0001	0.000537698
AT5G44250	20.9801	14.8261	-0.500882407	0.00005	0.000282578
AT5G44260	32.392	6.80484	-2.251004403	0.00005	0.000282578
AT5G44290	48.4264	38.864	-0.317359362	0.0019	0.00745613
AT5G44340	369.804	166.653	-1.149913541	0.00005	0.000282578
AT5G44350	2.22987	3.83446	0.782063816	0.0008	0.00349363
AT5G44400	9.15396	18.3594	1.004051018	0.00005	0.000282578
AT5G44410	14.3774	27.3024	0.925224973	0.00005	0.000282578
AT5G44490	1.63142	4.72179	1.533205636	0.00005	0.000282578
AT5G44530	10.801	7.24793	-0.575523962	0.00005	0.000282578
AT5G44560	21.8388	11.9502	-0.869858822	0.00005	0.000282578
AT5G44565	1.35247	4.08313	1.594078908	0.0018	0.00711608
AT5G44568	5.9208	15.7774	1.413995453	0.00005	0.000282578
AT5G44572	22.5064	48.6408	1.111831647	0.00005	0.000282578
AT5G44575	9.76017	17.8058	0.867369075	0.00005	0.000282578

AT5G44578	11.6367	3.27573	-1.828793635	0.00005	0.000282578
AT5G44590	0.553123	0	-inf	0.00005	0.000282578
AT5G44600	7.09404	4.51383	-0.65225538	0.0002	0.00101248
AT5G44635	5.49543	3.69785	-0.571545668	0.0001	0.000537698
AT5G44660	13.9694	20.5409	0.556229338	0.00005	0.000282578
AT5G44680	50.701	19.751	-1.360088503	0.00005	0.000282578
AT5G44720	37.7115	53.9692	0.517131766	0.00005	0.000282578
AT5G44730	20.2764	12.9319	-0.648867273	0.00695	0.0227126
AT5G44750	23.3438	29.6444	0.344720169	0.00085	0.00368886
AT5G44820	2.86696	5.96639	1.057336508	0.00005	0.000282578
AT5G44860	18.1388	23.3282	0.362995978	0.0016	0.00641937
AT5G44870	9.39953	12.2175	0.378288579	0.0003	0.00145851
AT5G44910	14.5764	7.74729	-0.911870805	0.00005	0.000282578
AT5G44973	2.2753	0	-inf	0.00005	0.000282578
AT5G44980	0.28601	1.7207	2.588858094	0.00005	0.000282578
AT5G45040	21.5125	14.4165	-0.577454239	0.0132	0.0390601
AT5G45060	10.0167	12.3636	0.303691593	0.00495	0.0169989
AT5G45070	3.70771	6.88498	0.892924056	0.00005	0.000282578
AT5G45080	1.20936	2.86012	1.241831911	0.00005	0.000282578
AT5G45100	15.8661	21.8552	0.462029033	0.0002	0.00101248
AT5G45110	8.77284	14.7157	0.746240308	0.00005	0.000282578
AT5G45130	51.9934	62.9075	0.274903529	0.0075	0.0242445
AT5G45140	8.1147	10.3113	0.345616568	0.00155	0.00624225
AT5G45170	44.3353	33.165	-0.418794312	0.0019	0.00745613
AT5G45250	8.71241	11.534	0.404749175	0.0004	0.00188925
AT5G45275	2.852	4.88168	0.775403746	0.00005	0.000282578
AT5G45280	39.7079	17.1435	-1.211764386	0.00005	0.000282578
AT5G45290	13.5129	10.846	-0.317174249	0.00535	0.0181609
AT5G45330	5.50623	3.80843	-0.531868495	0.0005	0.00230701
AT5G45380	6.10161	21.2735	1.801795536	0.00005	0.000282578
AT5G45390	187.163	107.263	-0.803142749	0.00005	0.000282578
AT5G45410	69.0217	117.222	0.764121445	0.00005	0.000282578
AT5G45430	102.774	75.2899	-0.448947086	0.00005	0.000282578
AT5G45460	2.17782	1.4907	-0.54689477	0.00415	0.0146251
AT5G45470	25.4125	17.12	-0.569855608	0.00005	0.000282578
AT5G45490	69.8345	34.5058	-1.017101059	0.00005	0.000282578
AT5G45510	69.3839	55.2137	-0.329574653	0.00095	0.00406118
AT5G45530	0.825502	0.457156	-0.852585156	0.00815	0.0259914
AT5G45550	66.6325	51.9101	-0.360210756	0.0009	0.00387377
AT5G45560	4.62114	2.51113	-0.879912079	0.00005	0.000282578
AT5G45590	11.8032	7.70401	-0.615496565	0.00005	0.000282578
AT5G45600	16.562	12.569	-0.398007029	0.00355	0.0128096
AT5G45620	37.1332	30.1445	-0.300814847	0.00415	0.0146251
AT5G45670	31.2581	18.4623	-0.759647795	0.00005	0.000282578
AT5G45680	94.4957	49.8713	-0.922038871	0.00005	0.000282578
AT5G45700	8.07923	2.66639	-1.59932999	0.00005	0.000282578
AT5G45720	1.74986	0.75448	-1.213684939	0.00005	0.000282578

AT5G45730	1.58216	1.03735	-0.608992764	0.01405	0.041168
AT5G45750	37.5058	17.1651	-1.127635453	0.00005	0.000282578
AT5G45760	7.14136	5.14098	-0.474155448	0.00415	0.0146251
AT5G45820	52.5793	3.13597	-4.067511272	0.00005	0.000282578
AT5G45830	7.84241	0.414541	-4.241710365	0.00005	0.000282578
AT5G45840	4.7645	2.32009	-1.038144051	0.00005	0.000282578
AT5G45930	60.3726	28.2814	-1.094040395	0.00005	0.000282578
AT5G45950	37.3051	26.3441	-0.501892982	0.00005	0.000282578
AT5G45960	1.40508	0.796826	-0.818315647	0.0157	0.0451684
AT5G45990	0.34263	0.908676	1.407114498	0.00065	0.00291062
AT5G46020	160.167	118.182	-0.438566614	0.00005	0.000282578
AT5G46050	5.43104	11.1522	1.038027945	0.00005	0.000282578
AT5G46090	6.60189	9.71585	0.557461116	0.0137	0.040313
AT5G46100	1.64602	2.98199	0.857293554	0.0006	0.00271108
AT5G46110	697.962	240.028	-1.539945782	0.00005	0.000282578
AT5G46115	1.15202	2.98186	1.372046761	0.00745	0.0241032
AT5G46140	0.148686	0.714041	2.263738103	0.0037	0.0132727
AT5G46180	17.0534	32.3352	0.92304613	0.00005	0.000282578
AT5G46240	7.05283	5.12408	-0.460909266	0.00015	0.000779873
AT5G46250	72.1275	172.596	1.258777705	0.00005	0.000282578
AT5G46270	9.603	18.694	0.961018216	0.00005	0.000282578
AT5G46280	9.04246	7.37865	-0.293358427	0.01735	0.0490658
AT5G46290	100.502	62.4092	-0.687393588	0.00005	0.000282578
AT5G46330	13.663	6.23419	-1.132000263	0.00005	0.000282578
AT5G46400	7.23715	5.84685	-0.307762094	0.012	0.0360547
AT5G46430	362.819	246.257	-0.559085274	0.00005	0.000282578
AT5G46450	16.1014	20.8324	0.37164292	0.00025	0.00123846
AT5G46460	1.1986	3.10322	1.3724157	0.00005	0.000282578
AT5G46470	14.0025	17.4908	0.320911849	0.0015	0.00606399
AT5G46490	7.20861	21.45	1.573184644	0.00005	0.000282578
AT5G46500	1.33283	6.40634	2.265007588	0.00005	0.000282578
AT5G46560	10.086	13.5582	0.426811527	0.0009	0.00387377
AT5G46570	14.8434	8.2803	-0.842066647	0.00005	0.000282578
AT5G46600	1.34323	0.515859	-1.380657665	0.0001	0.000537698
AT5G46630	61.2786	46.2054	-0.407321869	0.00005	0.000282578
AT5G46640	3.42616	2.12492	-0.689183999	0.0007	0.00310863
AT5G46680	1.52147	2.42706	0.673743887	0.00325	0.0118728
AT5G46690	21.3273	9.17146	-1.217478015	0.00005	0.000282578
AT5G46730	3.01725	4.48665	0.572404406	0.01275	0.0379464
AT5G46740	5.14939	3.67702	-0.485864516	0.0008	0.00349363
AT5G46760	33.1087	45.3636	0.45432477	0.00005	0.000282578
AT5G46800	55.5269	39.3866	-0.495481971	0.00005	0.000282578
AT5G46880	3.81036	1.53453	-1.312130458	0.00005	0.000282578
AT5G46920	5.28699	7.98823	0.595429274	0.00005	0.000282578
AT5G47000	0.528022	2.86529	2.440011218	0.00005	0.000282578
AT5G47020	30.9455	20.6046	-0.586763176	0.00005	0.000282578
AT5G47030	200.529	165.398	-0.277869101	0.00595	0.0198839

AT5G47040	55.4734	39.5067	-0.489698809	0.00005	0.000282578
AT5G47050	10.4621	14.4934	0.470223611	0.00005	0.000282578
AT5G47060	14.4127	22.1165	0.617782465	0.0005	0.00230701
AT5G47090	9.13074	12.3288	0.433228691	0.0021	0.00813349
AT5G47100	15.0208	11.4525	-0.391299089	0.0048	0.0165649
AT5G47110	310.013	184.948	-0.745209015	0.00005	0.000282578
AT5G47120	86.9031	111.103	0.354418226	0.0004	0.00188925
AT5G47140	7.31611	9.64562	0.398797208	0.00185	0.00728767
AT5G47180	17.2037	25.6248	0.574821866	0.00005	0.000282578
AT5G47190	251.93	139.033	-0.857595577	0.00005	0.000282578
AT5G47210	273.749	208.115	-0.395472743	0.0017	0.00676327
AT5G47220	6.92786	13.0976	0.918820796	0.00005	0.000282578
AT5G47230	5.82641	14.397	1.305089087	0.00005	0.000282578
AT5G47240	43.3036	24.0273	-0.849812428	0.00005	0.000282578
AT5G47250	1.13542	1.94018	0.772964445	0.0002	0.00101248
AT5G47310	41.2101	32.052	-0.362583583	0.00095	0.00406118
AT5G47330	0.848988	5.11271	2.590272129	0.00005	0.000282578
AT5G47370	17.5878	30.363	0.78773931	0.00005	0.000282578
AT5G47390	29.6853	24.0595	-0.303142032	0.005	0.0171523
AT5G47420	10.3924	16.306	0.649874054	0.00005	0.000282578
AT5G47435	55.076	88.7295	0.687990054	0.00005	0.000282578
AT5G47450	73.8105	43.3952	-0.76629059	0.00005	0.000282578
AT5G47480	25.5134	31.2432	0.292287055	0.0041	0.0144768
AT5G47490	7.28795	5.89722	-0.305478045	0.00525	0.0178784
AT5G47500	42.7556	28.2402	-0.598363086	0.00005	0.000282578
AT5G47550	28.1948	49.0071	0.797561668	0.00005	0.000282578
AT5G47560	68.3109	93.8344	0.458001117	0.00005	0.000282578
AT5G47570	116.785	88.6693	-0.397348393	0.0002	0.00101248
AT5G47590	4.62833	7.7463	0.743015643	0.00005	0.000282578
AT5G47600	1.21023	7.1721	2.567114351	0.00005	0.000282578
AT5G47610	16.9684	33.4543	0.979341122	0.00005	0.000282578
AT5G47640	33.1902	77.1831	1.217527667	0.00005	0.000282578
AT5G47700	255.515	184.134	-0.472651945	0.00005	0.000282578
AT5G47770	77.9945	54.2011	-0.525050261	0.00005	0.000282578
AT5G47780	69.4424	54.6646	-0.345209943	0.0007	0.00310863
AT5G47790	6.93011	8.6565	0.32090558	0.01555	0.0447988
AT5G47800	6.61192	9.03921	0.451127422	0.0042	0.0147771
AT5G47810	4.82112	6.89859	0.516933181	0.0151	0.0437129
AT5G47830	5.88745	10.5146	0.83667916	0.00005	0.000282578
AT5G47840	109.506	57.7354	-0.923481847	0.00005	0.000282578
AT5G47850	0.0743934	0.829052	3.478216054	0.0006	0.00271108
AT5G47860	32.0145	50.052	0.64470224	0.00005	0.000282578
AT5G47880	34.6636	24.1814	-0.519523721	0.00005	0.000282578
AT5G47910	10.7765	32.0193	1.571053074	0.00005	0.000282578
AT5G47930	223.025	171.279	-0.38085716	0.0002	0.00101248
AT5G47990	43.1039	94.2153	1.128142955	0.00005	0.000282578
AT5G48000	33.488	85.1137	1.345747152	0.00005	0.000282578



AT5G48010	25.3043	46.6593	0.882782098	0.00005	0.000282578
AT5G48020	32.4276	26.3145	-0.30136427	0.00495	0.0169989
AT5G48030	12.3638	26.1781	1.082238169	0.00005	0.000282578
AT5G48060	1.52668	0.9133	-0.741236959	0.0013	0.00534838
AT5G48070	6.06849	2.14504	-1.50033303	0.00005	0.000282578
AT5G48110	7.76	3.59257	-1.111040385	0.00005	0.000282578
AT5G48180	71.4865	108.837	0.606426371	0.00005	0.000282578
AT5G48220	35.5327	17.3606	-1.033330508	0.00005	0.000282578
AT5G48230	51.336	38.1607	-0.427883253	0.00065	0.00291062
AT5G48300	201.281	159.447	-0.336134041	0.0011	0.00462106
AT5G48310	3.78077	1.76609	-1.098121222	0.00005	0.000282578
AT5G48360	10.5777	7.85795	-0.428801071	0.00355	0.0128096
AT5G48380	27.9589	44.349	0.665593973	0.00005	0.000282578
AT5G48385	74.4331	61.17	-0.283120047	0.00455	0.015822
AT5G48400	0.43302	1.72712	1.995862759	0.00005	0.000282578
AT5G48410	0.780963	1.77258	1.182524637	0.00005	0.000282578
AT5G48430	3.4612	0.882292	-1.971944199	0.00005	0.000282578
AT5G48460	17.0319	8.13929	-1.065264527	0.00005	0.000282578
AT5G48470	10.5451	21.4646	1.025386512	0.00005	0.000282578
AT5G48480	16.3245	22.0906	0.4363938	0.004	0.0141788
AT5G48490	69.0917	11.6653	-2.566289	0.00005	0.000282578
AT5G48500	14.8857	25.9659	0.802691165	0.00005	0.000282578
AT5G48510	0	0.634636	inf	0.00005	0.000282578
AT5G48520	13.689	10.4265	-0.392762109	0.0009	0.00387377
AT5G48530	4.3884	6.15947	0.489111185	0.00875	0.0275984
AT5G48545	17.9351	13.0136	-0.462765674	0.00025	0.00123846
AT5G48570	3.21287	27.1789	3.080552555	0.00005	0.000282578
AT5G48590	30.162	22.5726	-0.418159492	0.0125	0.0373138
AT5G48600	5.91688	4.24104	-0.480418546	0.00005	0.000282578
AT5G48620	40.4416	53.8491	0.413082157	0.0001	0.000537698
AT5G48640	13.2414	16.7022	0.334982481	0.01405	0.041168
AT5G48650	0.711325	1.58688	1.157612262	0.0005	0.00230701
AT5G48657	12.5269	16.6777	0.412890904	0.0031	0.0114009
AT5G48690	1.47296	0.707422	-1.058075262	0.00535	0.0181609
AT5G48720	6.88806	9.87976	0.520378286	0.0003	0.00145851
AT5G48730	9.10287	11.6573	0.356840296	0.01045	0.0320751
AT5G48760	84.737	67.9385	-0.318762687	0.00185	0.00728767
AT5G48770	1.40587	2.13575	0.603279587	0.00045	0.00210009
AT5G48790	105.401	54.228	-0.958778687	0.00005	0.000282578
AT5G48830	15.3514	11.8064	-0.378801105	0.0014	0.00571151
AT5G48850	3.93304	79.5088	4.337397782	0.00005	0.000282578
AT5G48880	27.183	17.9045	-0.602382455	0.00005	0.000282578
AT5G48900	32.7209	9.43482	-1.794145532	0.00005	0.000282578
AT5G48960	16.0715	23.6492	0.557286795	0.00005	0.000282578
AT5G49015	21.7499	12.8695	-0.757052764	0.00005	0.000282578
AT5G49030	38.1672	24.8487	-0.619162975	0.00005	0.000282578
AT5G49110	0.657397	1.15781	0.816561744	0.0002	0.00101248

AT5G49160	9.37807	7.86375	-0.254073591	0.01745	0.0493019
AT5G49170	4.58091	2.2977	-0.995443775	0.00015	0.000779873
AT5G49215	7.45101	4.70434	-0.663443666	0.00005	0.000282578
AT5G49220	12.2831	9.73806	-0.334968418	0.0052	0.0177382
AT5G49280	7.27885	12.4501	0.774374891	0.00005	0.000282578
AT5G49330	0.682109	4.57084	2.744385116	0.00005	0.000282578
AT5G49360	179.09	116.97	-0.614546222	0.00005	0.000282578
AT5G49410	2.2896	3.92854	0.778897673	0.0014	0.00571151
AT5G49440	93.9731	160.794	0.774893827	0.00005	0.000282578
AT5G49460	48.8066	25.1082	-0.958917647	0.00005	0.000282578
AT5G49470	10.2149	7.56437	-0.433383243	0.0002	0.00101248
AT5G49520	1.80112	6.21606	1.787106125	0.00005	0.000282578
AT5G49555	16.6358	12.9729	-0.358790226	0.0019	0.00745613
AT5G49610	3.68605	5.17315	0.488967384	0.0081	0.0258615
AT5G49630	7.87908	12.0867	0.617321315	0.00005	0.000282578
AT5G49650	28.779	21.0914	-0.448361602	0.00005	0.000282578
AT5G49665	5.94707	3.85223	-0.626485214	0.00005	0.000282578
AT5G49690	0.705196	2.84084	2.010221383	0.00005	0.000282578
AT5G49700	7.70321	10.5497	0.453670313	0.00065	0.00291062
AT5G49730	92.45	8.8479	-3.385266334	0.00005	0.000282578
AT5G49740	23.7337	16.6416	-0.512142882	0.00005	0.000282578
AT5G49760	66.2388	46.7612	-0.502364584	0.00005	0.000282578
AT5G49770	1.73285	0.724003	-1.259079196	0.00005	0.000282578
AT5G49820	29.4871	16.1207	-0.871169553	0.00005	0.000282578
AT5G49850	3.40789	2.05764	-0.727888175	0.01475	0.0428657
AT5G49870	1.34612	0.495567	-1.441654999	0.0001	0.000537698
AT5G49910	81.4214	134.175	0.720635955	0.00005	0.000282578
AT5G49945	15.222	10.3466	-0.557001164	0.0005	0.00230701
AT5G49980	33.3858	43.4831	0.381220186	0.0003	0.00145851
AT5G49990	9.76085	16.5831	0.764635034	0.00005	0.000282578
AT5G50000	50.8477	31.4491	-0.693163787	0.00005	0.000282578
AT5G50010	6.77652	4.74805	-0.513209457	0.00675	0.0221564
AT5G50100	28.1319	16.4445	-0.774601851	0.00005	0.000282578
AT5G50130	2.69285	3.99596	0.569408272	0.0052	0.0177382
AT5G50160	18.8516	26.9221	0.514103973	0.00005	0.000282578
AT5G50170	3.16736	4.07361	0.363027013	0.01055	0.0323254
AT5G50180	22.8124	15.3951	-0.567346996	0.00005	0.000282578
AT5G50210	19.1489	15.189	-0.334234629	0.00205	0.00796423
AT5G50240	1.71172	9.87888	2.528900761	0.00305	0.0112447
AT5G50250	75.6976	50.5024	-0.58389561	0.00005	0.000282578
AT5G50350	8.94028	6.4192	-0.477926505	0.0005	0.00230701
AT5G50370	20.8544	16.8453	-0.308005683	0.01375	0.0404397
AT5G50375	17.9957	13.0006	-0.469074014	0.0003	0.00145851
AT5G50390	4.78527	3.11111	-0.621170923	0.00005	0.000282578
AT5G50400	11.4213	18.058	0.660911246	0.00005	0.000282578
AT5G50460	63.0097	79.2647	0.331104574	0.0023	0.00880163
AT5G50640	2.75972	1.39695	-0.982241515	0.00005	0.000282578

AT5G50740	19.5513	7.63685	-1.356214946	0.00005	0.000282578
AT5G50760	21.9922	26.82	0.286317305	0.0163	0.0466222
AT5G50790	0.154618	6.37941	5.366642816	0.00025	0.00123846
AT5G50800	1.1653	2.41494	1.051285929	0.00075	0.0032996
AT5G50850	120.474	78.218	-0.623149273	0.00005	0.000282578
AT5G50870	46.1757	37.9078	-0.284639101	0.0091	0.0285401
AT5G50900	15.775	20.7211	0.393460587	0.0002	0.00101248
AT5G50950	72.4818	56.861	-0.350179312	0.00155	0.00624225
AT5G51020	64.8097	45.2732	-0.517552473	0.0016	0.00641937
AT5G51040	44.3566	72.1366	0.701582641	0.00005	0.000282578
AT5G51050	8.2049	17.0469	1.054951752	0.00005	0.000282578
AT5G51070	74.7674	149.142	0.996205323	0.00005	0.000282578
AT5G51150	17.716	13.6931	-0.371603805	0.001	0.00425239
AT5G51170	5.63449	10.5114	0.899597895	0.00005	0.000282578
AT5G51190	6.15293	24.5451	1.99608956	0.00005	0.000282578
AT5G51200	32.9932	25.2851	-0.383881227	0.00005	0.000282578
AT5G51230	17.9984	13.6213	-0.402004262	0.00025	0.00123846
AT5G51290	11.1852	15.4926	0.469988227	0.00475	0.0164173
AT5G51400	60.3751	38.3853	-0.65339975	0.00005	0.000282578
AT5G51440	2.84474	34.2837	3.591154112	0.00005	0.000282578
AT5G51470	0.587774	1.73469	1.561344419	0.00005	0.000282578
AT5G51540	2.57371	4.70747	0.871102398	0.00005	0.000282578
AT5G51545	61.4438	41.0702	-0.58117547	0.00005	0.000282578
AT5G51550	62.4745	40.8722	-0.61214755	0.00005	0.000282578
AT5G51560	8.57221	6.65456	-0.365323915	0.0041	0.0144768
AT5G51600	7.63827	5.46412	-0.48325675	0.00025	0.00123846
AT5G51620	20.0767	27.0566	0.430458405	0.00495	0.0169989
AT5G51640	9.22689	12.4683	0.434348411	0.01445	0.0421356
AT5G51660	8.62044	12.4516	0.530497723	0.00005	0.000282578
AT5G51670	14.0632	6.42638	-1.129846712	0.00005	0.000282578
AT5G51690	10.9591	13.287	0.277886079	0.01255	0.0374311
AT5G51720	56.4893	42.0226	-0.426812197	0.0007	0.00310863
AT5G51750	27.4598	18.3858	-0.578729166	0.00005	0.000282578
AT5G51770	5.85846	11.4229	0.963335581	0.00005	0.000282578
AT5G51780	12.847	16.833	0.389860815	0.007	0.0228553
AT5G51830	22.4954	14.6514	-0.618591494	0.00005	0.000282578
AT5G51910	4.44405	2.19704	-1.016313912	0.0003	0.00145851
AT5G51920	0.635697	2.30609	1.859037633	0.00005	0.000282578
AT5G51960	23.4083	16.2431	-0.527193167	0.00065	0.00291062
AT5G51970	136.078	163.525	0.265077372	0.01415	0.0413977
AT5G52050	1.93509	0.735971	-1.394679842	0.00005	0.000282578
AT5G52070	6.18884	12.684	1.035268853	0.00005	0.000282578
AT5G52100	32.7175	22.5329	-0.538029512	0.00005	0.000282578
AT5G52110	14.1704	7.02192	-1.012943018	0.0006	0.00271108
AT5G52120	11.6305	15.481	0.412585546	0.00135	0.00552942
AT5G52190	20.2675	36.4741	0.847704237	0.00005	0.000282578
AT5G52250	5.97396	9.85218	0.721755408	0.00005	0.000282578

AT5G52280	14.5679	10.7125	-0.44349772	0.00005	0.000282578
AT5G52310	56.9329	12.3268	-2.207464259	0.00005	0.000282578
AT5G52320	1.69017	7.06622	2.063770304	0.00005	0.000282578
AT5G52420	15.0646	27.3889	0.862428959	0.00005	0.000282578
AT5G52440	107.898	77.7971	-0.47187984	0.0002	0.00101248
AT5G52450	11.3096	25.1495	1.152981813	0.00005	0.000282578
AT5G52470	74.4567	88.7204	0.252864194	0.0129	0.0383166
AT5G52510	19.1634	30.1374	0.65320141	0.00005	0.000282578
AT5G52520	33.4198	26.4679	-0.336459366	0.00105	0.00443869
AT5G52530	23.9858	30.9592	0.368187633	0.00025	0.00123846
AT5G52630	2.20289	3.05474	0.471652136	0.01705	0.0483657
AT5G52640	2.25865	85.274	5.238573298	0.00005	0.000282578
AT5G52650	171.157	106.846	-0.679787398	0.00005	0.000282578
AT5G52720	0	0.906196	inf	0.00005	0.000282578
AT5G52740	0.240299	3.50591	3.866886411	0.0024	0.0091296
AT5G52750	5.83665	26.4348	2.179225948	0.00005	0.000282578
AT5G52760	0.69325	7.37203	3.410614326	0.00005	0.000282578
AT5G52780	33.4109	57.4124	0.78104352	0.00005	0.000282578
AT5G52790	5.19017	3.75096	-0.468521915	0.0042	0.0147771
AT5G52840	187.37	130.353	-0.523466194	0.00105	0.00443869
AT5G52860	6.60401	3.68814	-0.840448884	0.00005	0.000282578
AT5G52900	7.18425	9.54985	0.410640518	0.0053	0.0180196
AT5G52920	131.393	78.0375	-0.751648952	0.00005	0.000282578
AT5G52950	1.92717	1.38585	-0.475712727	0.0122	0.0365526
AT5G52960	52.1598	28.3051	-0.881876317	0.00005	0.000282578
AT5G53000	28.2554	21.4344	-0.39859858	0.001	0.00425239
AT5G53010	6.25045	9.26328	0.567563062	0.00005	0.000282578
AT5G53045	13.3225	19.2855	0.533651717	0.00335	0.0121887
AT5G53050	39.2551	47.0429	0.261096899	0.0141	0.0412869
AT5G53080	3.99445	6.8322	0.774353337	0.00005	0.000282578
AT5G53120	11.9045	23.9357	1.007656971	0.00005	0.000282578
AT5G53150	10.7359	17.0192	0.664720085	0.00005	0.000282578
AT5G53170	38.6237	54.997	0.509866549	0.00005	0.000282578
AT5G53210	6.83071	2.89652	-1.237714917	0.00005	0.000282578
AT5G53220	3.13328	4.36561	0.478509554	0.01055	0.0323254
AT5G53280	13.1437	8.37889	-0.649540417	0.00005	0.000282578
AT5G53300	772.141	934.787	0.27577335	0.0077	0.0247988
AT5G53310	47.0517	33.5133	-0.489513096	0.00005	0.000282578
AT5G53370	34.0429	60.236	0.82327203	0.00005	0.000282578
AT5G53380	0.66117	0.16648	-1.989672395	0.00425	0.0149278
AT5G53400	21.9867	29.7236	0.434977774	0.00025	0.00123846
AT5G53420	28.1937	77.6723	1.462027365	0.00005	0.000282578
AT5G53460	124.929	93.3703	-0.420072788	0.00005	0.000282578
AT5G53490	279.063	95.6387	-1.54492443	0.00005	0.000282578
AT5G53500	20.0468	10.6881	-0.907366552	0.00005	0.000282578
AT5G53550	29.6058	55.8921	0.916764543	0.00005	0.000282578
AT5G53580	33.8096	57.2113	0.758867179	0.00005	0.000282578

AT5G53590	7.37392	11.8025	0.678588813	0.0002	0.00101248
AT5G53620	27.9084	23.0809	-0.273999936	0.00875	0.0275984
AT5G53730	4.16908	13.836	1.730625958	0.00005	0.000282578
AT5G53800	16.68	21.8497	0.389494183	0.0015	0.00606399
AT5G53820	0.294282	4.66717	3.987276811	0.00625	0.0207474
AT5G53830	6.66278	15.1642	1.186473227	0.00005	0.000282578
AT5G53870	1.54076	8.6639	2.491374437	0.00005	0.000282578
AT5G53880	34.8609	55.3013	0.665703579	0.00005	0.000282578
AT5G53920	2.62757	5.74149	1.127695987	0.00065	0.00291062
AT5G53940	38.8784	51.7892	0.413682425	0.0016	0.00641937
AT5G53950	1.16581	0.542691	-1.103129794	0.00565	0.0190219
AT5G53980	10.4742	3.55703	-1.55809501	0.00005	0.000282578
AT5G53990	2.22362	1.17278	-0.922977858	0.0006	0.00271108
AT5G54160	356.014	221.279	-0.686067433	0.00005	0.000282578
AT5G54170	16.2921	28.3734	0.800366465	0.00005	0.000282578
AT5G54190	6.08906	0.139858	-5.444184844	0.00005	0.000282578
AT5G54200	8.2011	4.84808	-0.758403924	0.00005	0.000282578
AT5G54250	10.2132	29.9219	1.550766825	0.00005	0.000282578
AT5G54260	4.31703	2.29947	-0.908737743	0.00005	0.000282578
AT5G54270	6198.82	285.997	-4.437921693	0.00005	0.000282578
AT5G54290	66.8815	50.3919	-0.408415351	0.0004	0.00188925
AT5G54310	65.5793	48.4158	-0.437762569	0.00005	0.000282578
AT5G54370	19.8704	8.43198	-1.236677565	0.00005	0.000282578
AT5G54390	39.9559	94.2553	1.238165193	0.00005	0.000282578
AT5G54470	2.56856	1.0785	-1.251933598	0.00055	0.00251246
AT5G54490	3.67984	6.63241	0.849890155	0.00015	0.000779873
AT5G54500	237.644	141.233	-0.750724754	0.00005	0.000282578
AT5G54510	52.2001	24.768	-1.075575194	0.00005	0.000282578
AT5G54540	94.8536	59.3697	-0.675975707	0.00005	0.000282578
AT5G54570	1.84412	0.667412	-1.466283006	0.00025	0.00123846
AT5G54585	15.3746	4.14943	-1.889563802	0.00005	0.000282578
AT5G54600	395.754	246.442	-0.683355783	0.00005	0.000282578
AT5G54630	37.2491	12.9704	-1.521982596	0.00005	0.000282578
AT5G54670	8.75396	7.11432	-0.299209924	0.01485	0.0431154
AT5G54730	9.54675	11.5468	0.274411503	0.01725	0.0488461
AT5G54740	1.06006	0	-inf	0.00005	0.000282578
AT5G54750	44.6642	33.9732	-0.394721807	0.0004	0.00188925
AT5G54760	205.405	171.638	-0.259102305	0.0111	0.0337467
AT5G54860	5.38894	9.43531	0.808068395	0.00005	0.000282578
AT5G54910	5.56635	7.34303	0.399643869	0.0023	0.00880163
AT5G54940	264.988	374.648	0.499608721	0.00005	0.000282578
AT5G55040	18.7462	23.9653	0.35434882	0.00065	0.00291062
AT5G55050	8.61821	13.2969	0.625629781	0.00005	0.000282578
AT5G55090	1.16592	3.25552	1.481419201	0.00005	0.000282578
AT5G55100	17.8783	23.4173	0.389365183	0.0002	0.00101248
AT5G55120	20.3117	33.7639	0.733170565	0.00005	0.000282578
AT5G55130	14.5462	18.4583	0.34362737	0.00985	0.0305115

AT5G55160	106.986	130.346	0.28492429	0.00515	0.0175936
AT5G55180	39.3363	23.1522	-0.764711973	0.00005	0.000282578
AT5G55190	117.98	99.051	-0.252298869	0.01285	0.0381931
AT5G55230	54.8949	33.0896	-0.73029427	0.00005	0.000282578
AT5G55250	3.16944	1.18717	-1.416701417	0.00005	0.000282578
AT5G55260	16.8327	11.9463	-0.49470275	0.00005	0.000282578
AT5G55280	52.3625	35.2379	-0.57140603	0.00005	0.000282578
AT5G55290	54.0285	40.1843	-0.427088678	0.00015	0.000779873
AT5G55400	8.59425	3.77373	-1.187380539	0.00005	0.000282578
AT5G55450	43.7934	21.345	-1.036815298	0.00005	0.000282578
AT5G55470	1.54008	2.79255	0.858577818	0.00125	0.00516712
AT5G55480	20.8764	14.8362	-0.492751329	0.00005	0.000282578
AT5G55490	0.265379	0.589208	1.150722807	0.00415	0.0146251
AT5G55510	12.9221	9.04811	-0.514152171	0.00155	0.00624225
AT5G55520	5.53285	2.06732	-1.420261091	0.00005	0.000282578
AT5G55530	21.4613	27.527	0.359109919	0.00075	0.0032996
AT5G55610	34.5024	20.1739	-0.774206708	0.00005	0.000282578
AT5G55620	45.4026	34.6916	-0.388188536	0.0006	0.00271108
AT5G55630	29.9447	21.7035	-0.464372962	0.0002	0.00101248
AT5G55660	40.3125	32.1103	-0.328191111	0.00115	0.00480526
AT5G55680	1.45505	0.722861	-1.009278568	0.00745	0.0241032
AT5G55710	65.866	38.236	-0.784602333	0.00005	0.000282578
AT5G55720	1.29885	0.571359	-1.184765409	0.00305	0.0112447
AT5G55730	40.4324	27.5958	-0.551063132	0.00005	0.000282578
AT5G55820	3.01984	1.48545	-1.023572068	0.00005	0.000282578
AT5G55840	1.91422	3.1918	0.737613607	0.00005	0.000282578
AT5G55930	13.2783	19.3809	0.545565115	0.0002	0.00101248
AT5G55960	23.9493	29.4684	0.299185242	0.00375	0.0134211
AT5G56010	87.9868	159.036	0.853994368	0.00005	0.000282578
AT5G56030	89.4118	145.966	0.707095213	0.00005	0.000282578
AT5G56040	17.9152	27.9074	0.639463572	0.00005	0.000282578
AT5G56050	0.901544	2.04096	1.178778098	0.001	0.00425239
AT5G56080	3.90163	0.492486	-2.985922352	0.00005	0.000282578
AT5G56120	12.6014	4.44842	-1.502219112	0.00005	0.000282578
AT5G56140	55.241	31.6597	-0.803091851	0.00005	0.000282578
AT5G56170	92.8631	72.2393	-0.362321529	0.0022	0.00846997
AT5G56190	22.2408	18.1847	-0.290483557	0.00855	0.0270622
AT5G56210	11.4228	8.51529	-0.423788764	0.0009	0.00387377
AT5G56220	9.47699	5.76457	-0.717215919	0.00005	0.000282578
AT5G56260	24.2554	34.5022	0.508382385	0.00005	0.000282578
AT5G56300	0.549279	0.125217	-2.133108694	0.01325	0.0391853
AT5G56340	14.8367	12.0875	-0.295654352	0.01585	0.0455283
AT5G56368	0	6.66435	inf	0.0012	0.00498818
AT5G56370	1.03325	2.18719	1.081889188	0.0002	0.00101248
AT5G56380	6.11593	8.71741	0.51132767	0.0001	0.000537698
AT5G56420	4.85054	6.84689	0.497303466	0.0018	0.00711608
AT5G56460	4.33632	7.57171	0.804147931	0.00005	0.000282578

AT5G56500	13.6267	23.6098	0.792949596	0.00005	0.000282578
AT5G56520	7.50687	13.482	0.844751126	0.00005	0.000282578
AT5G56530	10.6011	13.1085	0.306288637	0.01245	0.0371844
AT5G56550	10.7862	56.917	2.399672932	0.00005	0.000282578
AT5G56590	6.68251	9.69332	0.536600788	0.00005	0.000282578
AT5G56600	52.384	87.9066	0.74684526	0.00005	0.000282578
AT5G56630	28.3738	39.4019	0.473705821	0.00005	0.000282578
AT5G56650	21.1931	31.6734	0.579677111	0.00005	0.000282578
AT5G56670	339.926	273.198	-0.315273792	0.0088	0.0277304
AT5G56710	268.269	207.245	-0.372343057	0.00035	0.00167549
AT5G56720	2.39214	1.26408	-0.920214055	0.0038	0.0135703
AT5G56730	7.44575	5.45685	-0.44834879	0.0002	0.00101248
AT5G56780	6.30103	4.35	-0.534572278	0.00055	0.00251246
AT5G56810	0.499158	1.97045	1.980956688	0.00005	0.000282578
AT5G56840	1.03277	7.63218	2.885576198	0.00005	0.000282578
AT5G56850	24.5359	34.558	0.494125534	0.00005	0.000282578
AT5G56870	55.7217	35.9634	-0.631709853	0.00005	0.000282578
AT5G56890	20.579	12.0242	-0.775231968	0.00005	0.000282578
AT5G57020	44.8072	28.7174	-0.641805438	0.00005	0.000282578
AT5G57040	182.323	146.421	-0.316374086	0.00645	0.0213006
AT5G57060	14.8216	10.6869	-0.471857771	0.00305	0.0112447
AT5G57090	6.2596	4.73909	-0.40146041	0.00275	0.0102843
AT5G57100	5.20313	8.13682	0.645085323	0.00005	0.000282578
AT5G57130	6.17475	7.66663	0.312211829	0.0084	0.0266576
AT5G57140	6.39712	8.31692	0.378626809	0.00975	0.0302521
AT5G57150	32.4406	51.5052	0.666917592	0.00005	0.000282578
AT5G57170	27.0343	21.0016	-0.364291758	0.0064	0.0211702
AT5G57180	24.1746	16.1703	-0.580145574	0.00005	0.000282578
AT5G57210	8.92265	6.4443	-0.469448593	0.0002	0.00101248
AT5G57220	6.37425	14.511	1.186819435	0.00005	0.000282578
AT5G57240	11.6017	2.722	-2.091597247	0.00005	0.000282578
AT5G57280	9.12377	11.7171	0.360913561	0.0122	0.0365526
AT5G57320	0.908447	1.33393	0.554208708	0.0102	0.0314297
AT5G57345	98.2841	48.9606	-1.005336804	0.00005	0.000282578
AT5G57410	12.4268	7.38911	-0.749982328	0.00005	0.000282578
AT5G57440	20.7849	11.3173	-0.877005995	0.00005	0.000282578
AT5G57460	26.9098	20.5381	-0.389828946	0.0003	0.00145851
AT5G57480	6.79414	9.65999	0.507730749	0.0002	0.00101248
AT5G57510	0.50351	1.82072	1.854416738	0.0052	0.0177382
AT5G57530	12.4431	9.68727	-0.361183897	0.01435	0.0418949
AT5G57550	1.86084	8.139	2.128897534	0.00005	0.000282578
AT5G57570	0.535301	1.43956	1.427205668	0.00555	0.0187351
AT5G57610	9.89403	16.9529	0.776901906	0.00005	0.000282578
AT5G57630	67.7096	38.6804	-0.807757682	0.00005	0.000282578
AT5G57655	121.091	74.2881	-0.704888609	0.00005	0.000282578
AT5G57660	201.812	61.8949	-1.705119517	0.00005	0.000282578
AT5G57710	38.0312	49.1566	0.370201672	0.0003	0.00145851

AT5G57760	8.49401	1.07505	-2.982042047	0.0025	0.00945953
AT5G57770	5.76877	4.02243	-0.52019643	0.00645	0.0213006
AT5G57780	20.5372	12.1265	-0.760076287	0.00005	0.000282578
AT5G57790	1.18414	2.13652	0.851423162	0.00015	0.000779873
AT5G57800	44.3537	30.3971	-0.545120768	0.00005	0.000282578
AT5G57815	44.4315	64.928	0.547257923	0.00005	0.000282578
AT5G57830	8.49097	6.37066	-0.414486532	0.00415	0.0146251
AT5G57887	99.9196	68.609	-0.542369863	0.00005	0.000282578
AT5G57890	9.75506	5.84483	-0.738989683	0.00005	0.000282578
AT5G57900	22.9543	31.3785	0.451011951	0.0001	0.000537698
AT5G57910	5.94947	8.26729	0.474653341	0.00245	0.0092976
AT5G57960	17.9013	14.6207	-0.292051975	0.00875	0.0275984
AT5G58010	6.13195	10.3002	0.748254512	0.00005	0.000282578
AT5G58070	113.679	140.234	0.302870407	0.0175	0.0494159
AT5G58120	1.40539	5.16961	1.879084908	0.00005	0.000282578
AT5G58240	35.4413	21.1755	-0.743035488	0.0003	0.00145851
AT5G58250	171.573	85.115	-1.011337229	0.00005	0.000282578
AT5G58260	45.3383	68.6367	0.598249894	0.013	0.0385744
AT5G58340	6.16048	11.1651	0.857881503	0.0033	0.0120328
AT5G58350	17.8398	42.886	1.26540732	0.00005	0.000282578
AT5G58370	6.917	8.85411	0.356200841	0.00635	0.0210292
AT5G58390	16.2498	27.3329	0.750216575	0.00005	0.000282578
AT5G58410	9.18439	11.1039	0.27381067	0.0078	0.0250675
AT5G58420	142.391	118.398	-0.266213251	0.00825	0.0262625
AT5G58520	12.0337	8.0236	-0.584758706	0.00005	0.000282578
AT5G58550	8.42692	6.52636	-0.368726859	0.0093	0.029061
AT5G58570	10.0031	65.1234	2.702728856	0.00005	0.000282578
AT5G58590	27.623	49.8337	0.851251681	0.00005	0.000282578
AT5G58600	14.8804	7.83037	-0.926260924	0.00005	0.000282578
AT5G58620	10.8283	13.9898	0.369568574	0.0011	0.00462106
AT5G58660	3.80676	2.69748	-0.496951354	0.0135	0.039819
AT5G58670	5.35254	3.80168	-0.493586571	0.0018	0.00711608
AT5G58710	95.833	153.794	0.682404783	0.00005	0.000282578
AT5G58760	5.02361	9.10573	0.858050214	0.00005	0.000282578
AT5G58770	5.88644	37.2217	2.660676658	0.00005	0.000282578
AT5G58800	41.2818	52.9057	0.357917287	0.00205	0.00796423
AT5G58860	30.2906	22.0805	-0.456097314	0.00005	0.000282578
AT5G58870	30.6325	23.8704	-0.359840372	0.0005	0.00230701
AT5G58900	38.1119	27.4398	-0.473971567	0.00005	0.000282578
AT5G58910	0.895494	1.4542	0.69947003	0.01535	0.0443205
AT5G58920	18.7378	26.4987	0.499970008	0.00035	0.00167549
AT5G58960	27.3615	15.1181	-0.855870486	0.00005	0.000282578
AT5G58980	2.78834	3.88602	0.478886837	0.00345	0.0125039
AT5G59010	12.4409	7.52504	-0.725319701	0.00005	0.000282578
AT5G59030	72.703	54.8939	-0.405369056	0.0001	0.000537698
AT5G59080	10.6302	2.66841	-1.994116482	0.00005	0.000282578
AT5G59090	27.8217	14.7155	-0.918874013	0.00005	0.000282578



AT5G59140	33.6781	42.6142	0.3395235	0.0054	0.0183008
AT5G59160	47.3914	34.2922	-0.466744818	0.00005	0.000282578
AT5G59210	20.7668	17.2332	-0.269088308	0.0176	0.0496468
AT5G59220	0.605833	3.75707	2.632615926	0.00005	0.000282578
AT5G59250	74.0516	38.2463	-0.953210721	0.00005	0.000282578
AT5G59290	77.0063	61.8532	-0.316128244	0.0021	0.00813349
AT5G59330	2.25644	0.355865	-2.664646464	0.0087	0.0274711
AT5G59340	0.434271	0.966919	1.154799424	0.01335	0.0394316
AT5G59400	13.3438	9.25532	-0.527814794	0.005	0.0171523
AT5G59430	16.9253	13.243	-0.353951426	0.00245	0.0092976
AT5G59440	15.3757	28.0515	0.867425826	0.00005	0.000282578
AT5G59490	1.73579	3.11326	0.842833649	0.00175	0.00694124
AT5G59500	20.3858	13.9527	-0.547020247	0.00005	0.000282578
AT5G59520	39.531	49.4559	0.323158191	0.00265	0.00995735
AT5G59540	111.871	136.357	0.285552665	0.0059	0.019741
AT5G59550	13.2029	21.4542	0.700405255	0.00005	0.000282578
AT5G59560	7.64095	11.3028	0.564856285	0.0001	0.000537698
AT5G59570	2.44277	15.1591	2.633594165	0.00005	0.000282578
AT5G59590	0.753372	1.50469	0.99803197	0.00265	0.00995735
AT5G59613	306.363	179.095	-0.77451701	0.00005	0.000282578
AT5G59670	0.219238	1.04455	2.252311768	0.00005	0.000282578
AT5G59690	137.667	106.362	-0.372199964	0.0006	0.00271108
AT5G59800	8.71934	12.8038	0.554281206	0.0001	0.000537698
AT5G59820	4.01317	11.3818	1.503914558	0.00005	0.000282578
AT5G59830	12.2582	18.97	0.62997253	0.0002	0.00101248
AT5G59845	0.977177	2.24169	1.197894972	0.0148	0.0429916
AT5G59850	126.52	104.776	-0.27205717	0.0085	0.0269248
AT5G59870	94.224	50.1995	-0.908421584	0.00005	0.000282578
AT5G59880	327.958	242.302	-0.436704755	0.00005	0.000282578
AT5G59890	100.621	73.927	-0.444758158	0.00005	0.000282578
AT5G59930	0.910221	0.471195	-0.949892641	0.0051	0.0174432
AT5G59940	1.47606	0.921792	-0.679238214	0.0081	0.0258615
AT5G59970	56.2253	35.6201	-0.658527887	0.00005	0.000282578
AT5G60020	10.5735	7.83681	-0.432114586	0.00115	0.00480526
AT5G60040	3.17453	6.06485	0.933928952	0.00005	0.000282578
AT5G60100	14.6748	28.8816	0.976809826	0.00005	0.000282578
AT5G60120	33.3975	18.471	-0.854478138	0.00005	0.000282578
AT5G60150	1.802	0.642207	-1.488488716	0.00005	0.000282578
AT5G60170	24.0098	28.987	0.271782644	0.0071	0.0231313
AT5G60200	10.1535	7.23009	-0.489891612	0.0005	0.00230701
AT5G60250	0.465788	2.3793	2.352791812	0.00005	0.000282578
AT5G60270	11.1974	17.9058	0.677263195	0.00005	0.000282578
AT5G60360	336.572	604.58	0.845018093	0.00005	0.000282578
AT5G60390	981.712	696.074	-0.496059162	0.0001	0.000537698
AT5G60450	16.7319	21.6613	0.372518548	0.00035	0.00167549
AT5G60460	42.0675	53.7215	0.352793504	0.00995	0.030766
AT5G60530	10.4485	6.4069	-0.705597464	0.00005	0.000282578

AT5G60610	0.441252	0.978681	1.149235874	0.0062	0.0206032
AT5G60660	45.8208	22.4673	-1.028175888	0.00005	0.000282578
AT5G60680	83.1377	65.8081	-0.337237667	0.00105	0.00443869
AT5G60780	1.67174	0.327854	-2.350225086	0.00005	0.000282578
AT5G60790	41.2098	59.8492	0.538344501	0.00005	0.000282578
AT5G60800	4.21492	10.0476	1.253273782	0.00005	0.000282578
AT5G60840	24.1495	17.1021	-0.497819832	0.00025	0.00123846
AT5G60860	23.0661	6.48933	-1.829632657	0.00005	0.000282578
AT5G60880	2.7026	1.60564	-0.751199538	0.0071	0.0231313
AT5G60900	0.303339	4.47277	3.882165673	0.00005	0.000282578
AT5G60910	0.125819	1.19201	3.243974633	0.0052	0.0177382
AT5G60920	143.407	96.0396	-0.578414147	0.00005	0.000282578
AT5G60930	6.68477	3.40444	-0.973460416	0.00005	0.000282578
AT5G60940	10.0259	7.73739	-0.37381285	0.0041	0.0144768
AT5G60950	9.54423	16.1974	0.763061536	0.0016	0.00641937
AT5G60970	5.69277	7.72075	0.439610186	0.00315	0.0115529
AT5G61000	7.33373	3.91156	-0.906803058	0.00005	0.000282578
AT5G61010	9.4878	13.1268	0.468369761	0.01715	0.0486055
AT5G61030	11.7409	17.8175	0.601751922	0.00045	0.00210009
AT5G61040	7.21047	4.97467	-0.535492476	0.0066	0.0217257
AT5G61060	14.6813	17.7619	0.274806194	0.01145	0.0346535
AT5G61070	0.482746	0.991656	1.038575439	0.0024	0.0091296
AT5G61130	38.0754	46.2091	0.279317798	0.01055	0.0323254
AT5G61160	1.01375	3.77462	1.896629498	0.00005	0.000282578
AT5G61170	140.119	115.115	-0.283576762	0.0041	0.0144768
AT5G61190	6.44821	8.40433	0.382234082	0.00095	0.00406118
AT5G61200	4.96899	2.39656	-1.051987579	0.00005	0.000282578
AT5G61230	78.5432	62.5963	-0.327408994	0.0011	0.00462106
AT5G61270	27.2678	9.67701	-1.494565049	0.00005	0.000282578
AT5G61360	3.36469	6.60852	0.973853621	0.0005	0.00230701
AT5G61370	2.14814	3.48855	0.699539491	0.0021	0.00813349
AT5G61380	49.7707	81.4867	0.711267929	0.00005	0.000282578
AT5G61390	3.37432	5.40325	0.679230638	0.00005	0.000282578
AT5G61410	503.382	366.72	-0.45697468	0.00005	0.000282578
AT5G61420	42.5457	50.3026	0.241619642	0.01585	0.0455283
AT5G61430	3.60198	7.0743	0.97379723	0.00005	0.000282578
AT5G61440	14.4109	21.6917	0.589982684	0.00005	0.000282578
AT5G61510	34.2524	53.8889	0.65378306	0.00005	0.000282578
AT5G61520	16.6056	22.3295	0.427281095	0.00005	0.000282578
AT5G61550	2.09012	3.01537	0.528749264	0.00255	0.00962703
AT5G61570	6.83964	4.3804	-0.642857775	0.0001	0.000537698
AT5G61590	136.473	90.9619	-0.58528126	0.00005	0.000282578
AT5G61600	19.1463	48.849	1.351263409	0.00005	0.000282578
AT5G61640	16.4742	23.5989	0.518511205	0.0001	0.000537698
AT5G61660	17.8753	11.7468	-0.605699656	0.00005	0.000282578
AT5G61670	49.3589	30.6239	-0.688652219	0.00005	0.000282578
AT5G61780	48.2395	37.6503	-0.357553593	0.0006	0.00271108

AT5G61790	104.313	210.483	1.012784752	0.00005	0.000282578
AT5G61810	23.0965	14.9094	-0.631452045	0.00005	0.000282578
AT5G61820	75.714	175.302	1.211210462	0.00005	0.000282578
AT5G61880	7.59233	13.1722	0.794881717	0.00005	0.000282578
AT5G61890	0.312128	0.953485	1.61107246	0.00545	0.0184447
AT5G61950	1.28962	0.833253	-0.630119511	0.00245	0.0092976
AT5G61960	33.3497	48.8897	0.551856769	0.00005	0.000282578
AT5G62020	3.44853	12.0481	1.804752227	0.00005	0.000282578
AT5G62030	8.71895	6.73925	-0.37156636	0.00455	0.015822
AT5G62070	15.039	20.1597	0.42276553	0.00025	0.00123846
AT5G62130	5.61369	8.2653	0.558117788	0.00015	0.000779873
AT5G62140	14.5533	21.2355	0.545131753	0.00005	0.000282578
AT5G62160	0.308015	1.35632	2.138625082	0.00005	0.000282578
AT5G62165	2.75817	4.51834	0.712081456	0.00215	0.00830066
AT5G62190	74.2807	93.5804	0.333218984	0.00085	0.00368886
AT5G62200	19.5904	45.1486	1.204534397	0.00005	0.000282578
AT5G62210	2.84439	7.39103	1.37765614	0.00005	0.000282578
AT5G62270	19.2372	15.687	-0.294329352	0.0113	0.0342596
AT5G62280	41.936	15.5932	-1.427272234	0.00005	0.000282578
AT5G62300	248.695	155.63	-0.676257314	0.00005	0.000282578
AT5G62330	3.44103	0.973725	-1.821254182	0.00215	0.00830066
AT5G62340	13.2451	8.49669	-0.640485902	0.00035	0.00167549
AT5G62350	274.288	198.199	-0.468741823	0.00005	0.000282578
AT5G62360	113.575	54.9211	-1.048212879	0.00005	0.000282578
AT5G62370	1.09772	1.76766	0.6873307	0.00065	0.00291062
AT5G62390	71.4826	58.5246	-0.288548941	0.00475	0.0164173
AT5G62410	7.11527	4.59374	-0.631249299	0.00005	0.000282578
AT5G62420	0.676948	0.15175	-2.1573485	0.0131	0.0388035
AT5G62460	20.912	14.8569	-0.493197928	0.00005	0.000282578
AT5G62480	9.87604	13.7529	0.477731279	0.0024	0.0091296
AT5G62550	13.8826	9.27408	-0.582001711	0.00175	0.00694124
AT5G62560	14.1027	10.6607	-0.403669226	0.0006	0.00271108
AT5G62575	16.227	24.7069	0.606517702	0.00145	0.00588787
AT5G62610	21.5392	26.466	0.297175499	0.0091	0.0285401
AT5G62620	4.50168	7.00188	0.63727883	0.00005	0.000282578
AT5G62630	26.0261	11.4457	-1.185153442	0.00005	0.000282578
AT5G62640	27.2188	22.1026	-0.300387375	0.00485	0.0167116
AT5G62670	37.4403	29.8229	-0.328171442	0.0145	0.0422563
AT5G62690	155.162	102.863	-0.593051141	0.00005	0.000282578
AT5G62700	152.88	108.713	-0.491875214	0.00005	0.000282578
AT5G62720	156.234	96.0737	-0.701494995	0.00005	0.000282578
AT5G62740	39.3273	27.7893	-0.501001648	0.00005	0.000282578
AT5G62770	4.91702	8.38242	0.769582586	0.00005	0.000282578
AT5G62790	87.0771	61.0098	-0.51325236	0.00005	0.000282578
AT5G62810	64.1	76.6144	0.257291221	0.01105	0.0336205
AT5G62850	0.848296	0.333337	-1.347586295	0.00985	0.0305115
AT5G62865	17.7866	12.3365	-0.527857614	0.0001	0.000537698

AT5G62880	26.3439	17.007	-0.631340266	0.00005	0.000282578
AT5G62890	53.0186	41.1725	-0.364817523	0.00035	0.00167549
AT5G62900	22.2561	14.9873	-0.570460306	0.00005	0.000282578
AT5G62930	31.0102	39.4462	0.347143496	0.0018	0.00711608
AT5G62940	4.06493	2.90642	-0.48398731	0.01245	0.0371844
AT5G62990	2.64227	6.63385	1.328068496	0.00005	0.000282578
AT5G63000	17.4368	12.8921	-0.435648017	0.00335	0.0121887
AT5G63050	33.8787	25.5735	-0.405728894	0.00055	0.00251246
AT5G63060	11.7897	5.96255	-0.983525644	0.0035	0.0126552
AT5G63130	3.12681	13.0304	2.05911791	0.00005	0.000282578
AT5G63140	12.1821	5.70086	-1.095511375	0.00005	0.000282578
AT5G63160	50.473	28.8798	-0.805451088	0.00005	0.000282578
AT5G63180	61.2749	46.1529	-0.408874923	0.00005	0.000282578
AT5G63200	12.7267	9.47567	-0.425558519	0.00595	0.0198839
AT5G63240	0	0.636766	inf	0.00005	0.000282578
AT5G63310	183.478	126.198	-0.53991804	0.00005	0.000282578
AT5G63320	22.3598	18.0847	-0.306137618	0.00775	0.0249349
AT5G63380	19.3414	12.4324	-0.637587399	0.00005	0.000282578
AT5G63400	119.471	80.1348	-0.576159665	0.00005	0.000282578
AT5G63420	18.8259	25.0278	0.410812644	0.00005	0.000282578
AT5G63470	24.7566	14.1249	-0.809572539	0.00005	0.000282578
AT5G63480	15.5395	8.44684	-0.879456455	0.0039	0.0138733
AT5G63530	20.0165	37.2423	0.895752441	0.00005	0.000282578
AT5G63570	85.455	66.1486	-0.369454284	0.0003	0.00145851
AT5G63580	0.354371	1.04784	1.564085991	0.00245	0.0092976
AT5G63590	8.15028	13.321	0.70878086	0.00005	0.000282578
AT5G63600	31.5615	22.5619	-0.484277207	0.00005	0.000282578
AT5G63620	31.1293	16.7041	-0.898070882	0.00005	0.000282578
AT5G63670	42.0599	60.4253	0.522707311	0.00005	0.000282578
AT5G63680	35.8177	57.3214	0.678401147	0.00005	0.000282578
AT5G63710	15.1262	21.8776	0.532404882	0.00005	0.000282578
AT5G63760	11.9981	17.2915	0.527257064	0.00005	0.000282578
AT5G63770	7.13434	8.84129	0.309476912	0.0064	0.0211702
AT5G63790	62.7804	89.2677	0.507824034	0.0004	0.00188925
AT5G63800	59.8748	45.6835	-0.390275746	0.00025	0.00123846
AT5G63810	53.3474	15.3293	-1.799126141	0.00005	0.000282578
AT5G63820	3.26969	0.916943	-1.834249901	0.00135	0.00552942
AT5G63870	27.413	22.5429	-0.2821871	0.00925	0.0289277
AT5G63940	11.248	16.6109	0.562461743	0.00005	0.000282578
AT5G63950	7.20149	5.21229	-0.466378079	0.00005	0.000282578
AT5G64000	3.89048	13.6746	1.813478565	0.00005	0.000282578
AT5G64040	2993.54	557.632	-2.424467289	0.00005	0.000282578
AT5G64050	41.9722	22.7142	-0.885839591	0.00005	0.000282578
AT5G64100	131.109	99.0233	-0.404926789	0.00005	0.000282578
AT5G64120	193.647	633.251	1.709348299	0.00005	0.000282578
AT5G64170	31.96	19.1779	-0.736822656	0.00005	0.000282578
AT5G64220	14.2821	20.7991	0.542312978	0.00005	0.000282578

AT5G64230	3.59565	7.74437	1.106895285	0.00005	0.000282578
AT5G64240	33.3253	21.0222	-0.664704206	0.0006	0.00271108
AT5G64260	160.435	355.371	1.147337045	0.00005	0.000282578
AT5G64280	23.0735	39.7764	0.785675848	0.00005	0.000282578
AT5G64290	75.6475	47.0441	-0.685278605	0.00005	0.000282578
AT5G64330	43.6709	26.4992	-0.720723458	0.00005	0.000282578
AT5G64380	19.5179	13.7975	-0.500390951	0.00025	0.00123846
AT5G64400	96.6376	126.431	0.387693715	0.005	0.0171523
AT5G64410	17.0045	10.7298	-0.664293401	0.00005	0.000282578
AT5G64430	26.5505	32.7599	0.303191923	0.00315	0.0115529
AT5G64440	33.614	25.4138	-0.40345012	0.00005	0.000282578
AT5G64460	74.9079	39.8272	-0.911363821	0.00005	0.000282578
AT5G64480	20.1815	14.3561	-0.49136953	0.00145	0.00588787
AT5G64510	0.754037	16.4045	4.443312495	0.00005	0.000282578
AT5G64550	2.75276	17.1152	2.636327412	0.00005	0.000282578
AT5G64570	99.1339	81.1897	-0.288081774	0.00445	0.0155271
AT5G64620	30.1069	22.7455	-0.404513018	0.00075	0.0032996
AT5G64630	3.88709	2.83953	-0.453038357	0.0114	0.034515
AT5G64640	4.74322	2.68498	-0.820955443	0.00005	0.000282578
AT5G64650	11.5358	18.0076	0.642487858	0.00005	0.000282578
AT5G64660	5.39528	9.33275	0.790604417	0.00005	0.000282578
AT5G64700	2.77592	4.00204	0.527769596	0.00765	0.024665
AT5G64710	0.755849	1.29904	0.781275901	0.0024	0.0091296
AT5G64780	5.49501	3.80262	-0.531128331	0.01415	0.0413977
AT5G64800	1.29664	3.06998	1.243451273	0.0035	0.0126552
AT5G64810	0.350402	2.06933	2.562080818	0.0008	0.00349363
AT5G64816	18.2591	24.2638	0.410189855	0.00965	0.0299919
AT5G64840	132.03	56.0789	-1.235335822	0.00005	0.000282578
AT5G64850	34.2214	19.4669	-0.813875621	0.00005	0.000282578
AT5G64860	47.1085	33.4586	-0.493610315	0.00005	0.000282578
AT5G64870	1.3708	3.33081	1.280854963	0.00005	0.000282578
AT5G64890	1.13919	3.04484	1.418358032	0.0034	0.0123479
AT5G64905	1.54262	3.62622	1.233083734	0.01485	0.0431154
AT5G64930	9.74894	12.2171	0.325584601	0.00935	0.0291957
AT5G64940	67.4398	39.0748	-0.787361769	0.00005	0.000282578
AT5G65000	13.4424	18.8273	0.48603538	0.0002	0.00101248
AT5G65010	237.468	57.6617	-2.04204784	0.00005	0.000282578
AT5G65020	89.9367	72.7988	-0.304995279	0.0033	0.0120328
AT5G65040	7.53009	17.6524	1.229125331	0.00005	0.000282578
AT5G65050	41.7612	32.7588	-0.350280658	0.00275	0.0102843
AT5G65060	18.4622	10.2021	-0.855708331	0.00005	0.000282578
AT5G65070	3.51383	2.01055	-0.80545418	0.00295	0.0109262
AT5G65140	3.35584	4.8715	0.537692133	0.00725	0.0235462
AT5G65170	2.67207	3.92584	0.555043574	0.00815	0.0259914
AT5G65200	4.21573	7.37462	0.806786241	0.00005	0.000282578
AT5G65207	51.84	30.3814	-0.770877366	0.00005	0.000282578
AT5G65210	49.613	39.6207	-0.324463827	0.0019	0.00745613

AT5G65220	660.568	359.718	-0.87684073	0.00005	0.000282578
AT5G65240	6.174	8.45382	0.453397912	0.0003	0.00145851
AT5G65260	38.0662	53.1435	0.481382688	0.00005	0.000282578
AT5G65280	3.12523	6.76436	1.113991074	0.00005	0.000282578
AT5G65300	2.0454	3.35684	0.714720769	0.0119	0.0357876
AT5G65360	152.011	102.774	-0.564700391	0.00005	0.000282578
AT5G65390	90.9882	57.4736	-0.66278004	0.00005	0.000282578
AT5G65430	182.244	109.168	-0.739321291	0.00005	0.000282578
AT5G65460	11.0367	7.78785	-0.503011865	0.00005	0.000282578
AT5G65470	23.4275	16.6509	-0.492602851	0.00005	0.000282578
AT5G65480	96.3784	76.2551	-0.337876021	0.0041	0.0144768
AT5G65500	0.37432	0.671094	0.842242725	0.0147	0.0427366
AT5G65530	6.98943	5.39379	-0.373875453	0.00745	0.0241032
AT5G65570	1.2337	1.9124	0.632392695	0.00285	0.010609
AT5G65590	4.31044	6.07413	0.494842642	0.0038	0.0135703
AT5G65600	0.24938	1.18669	2.250525435	0.0024	0.0091296
AT5G65613	32.5564	16.5685	-0.974498182	0.00355	0.0128096
AT5G65630	27.0942	39.9102	0.558773459	0.00315	0.0115529
AT5G65640	22.3639	31.938	0.514102173	0.00005	0.000282578
AT5G65683	10.4356	16.6828	0.676847896	0.00005	0.000282578
AT5G65685	26.2701	15.8063	-0.732921997	0.00005	0.000282578
AT5G65690	4.61515	2.46671	-0.903789424	0.00005	0.000282578
AT5G65730	57.0705	20.8575	-1.452178957	0.00005	0.000282578
AT5G65740	6.93675	10.2762	0.566975078	0.00025	0.00123846
AT5G65750	17.4014	35.7299	1.037928496	0.00005	0.000282578
AT5G65810	32.9786	21.8527	-0.593718613	0.00005	0.000282578
AT5G65830	6.77596	4.89427	-0.469331666	0.0033	0.0120328
AT5G65840	49.2924	34.5209	-0.513895148	0.00005	0.000282578
AT5G65850	1.35504	3.13759	1.211321403	0.0175	0.0494159
AT5G65860	11.615	16.9251	0.543175204	0.0002	0.00101248
AT5G65870	3.72196	16.4833	2.146870647	0.00005	0.000282578
AT5G65890	2.86022	4.33514	0.599952466	0.00265	0.00995735
AT5G65910	37.5681	27.9624	-0.426019962	0.002	0.00779418
AT5G65920	5.87777	8.07444	0.458093299	0.0005	0.00230701
AT5G65930	16.2166	11.0441	-0.554195517	0.00005	0.000282578
AT5G65940	27.2755	36.1582	0.406717217	0.0005	0.00230701
AT5G65960	34.677	26.683	-0.378058213	0.0045	0.0156801
AT5G65980	0.75596	0.369833	-1.031435938	0.01065	0.032587
AT5G65990	22.2397	27.8815	0.326170852	0.00435	0.0152293
AT5G66005	9.32904	6.19047	-0.591679681	0.00145	0.00588787
AT5G66010	13.8459	17.9956	0.378185371	0.00405	0.0143254
AT5G66040	408.043	625.443	0.616157217	0.00005	0.000282578
AT5G66050	33.7341	24.1444	-0.48251906	0.00005	0.000282578
AT5G66052	72.1229	209.344	1.537346257	0.00005	0.000282578
AT5G66055	50.3058	33.8736	-0.570563424	0.00005	0.000282578
AT5G66170	43.7416	99.2834	1.182546529	0.00005	0.000282578
AT5G66190	755.138	608.302	-0.311952571	0.00565	0.0190219

AT5G66200	26.2318	20.6248	-0.346936678	0.0145	0.0422563
AT5G66210	17.638	25.1757	0.513344912	0.0042	0.0147771
AT5G66230	13.9287	5.35604	-1.378821974	0.00005	0.000282578
AT5G66240	44.7816	74.8129	0.740380981	0.00005	0.000282578
AT5G66310	12.786	9.11749	-0.487856382	0.00005	0.000282578
AT5G66330	4.88797	2.27881	-1.100954788	0.00005	0.000282578
AT5G66360	6.91865	8.94759	0.37100859	0.0141	0.0412869
AT5G66390	48.8106	36.5764	-0.4162814	0.0001	0.000537698
AT5G66440	9.60653	13.2829	0.467482848	0.0013	0.00534838
AT5G66460	3.31224	6.26434	0.919355306	0.00225	0.00863481
AT5G66480	3.44298	9.3127	1.435541704	0.00005	0.000282578
AT5G66490	41.3149	69.5786	0.751981475	0.00005	0.000282578
AT5G66530	67.9887	37.506	-0.858173576	0.00005	0.000282578
AT5G66560	15.2313	10.4668	-0.541218645	0.00005	0.000282578
AT5G66570	4655.35	1220.52	-1.931393701	0.00005	0.000282578
AT5G66620	2.08753	5.05375	1.275557368	0.00005	0.000282578
AT5G66630	1.76848	5.2139	1.559853009	0.00005	0.000282578
AT5G66631	0.664857	1.61216	1.277878954	0.0001	0.000537698
AT5G66650	1.35726	3.78824	1.480830621	0.00005	0.000282578
AT5G66670	0.0680026	0.598402	3.137453185	0.00075	0.0032996
AT5G66675	13.7179	16.8472	0.296449192	0.01155	0.0349062
AT5G66690	24.8633	57.7762	1.216457528	0.00005	0.000282578
AT5G66720	47.0579	34.6509	-0.441544116	0.0001	0.000537698
AT5G66730	20.6924	25.9654	0.327489465	0.0018	0.00711608
AT5G66770	8.67578	13.863	0.676174121	0.00005	0.000282578
AT5G66815	1.08762	3.29053	1.597145389	0.0023	0.00880163
AT5G66820	9.14588	13.1427	0.523067794	0.00005	0.000282578
AT5G66840	1.39081	0.712425	-0.965115297	0.00275	0.0102843
AT5G66860	23.2071	29.4475	0.343578907	0.00405	0.0143254
AT5G66870	3.86822	2.51767	-0.619580652	0.0011	0.00462106
AT5G66880	37.5612	46.555	0.309692967	0.0031	0.0114009
AT5G66900	10.4839	12.8761	0.296520189	0.0098	0.0303881
AT5G66910	3.67357	7.20387	0.971589381	0.00005	0.000282578
AT5G66960	1.25103	1.79026	0.51705274	0.01725	0.0488461
AT5G67030	175.839	43.2514	-2.02343635	0.00005	0.000282578
AT5G67050	0.847517	0.20658	-2.03654172	0.0016	0.00641937
AT5G67060	3.48224	0.616793	-2.497157341	0.00005	0.000282578
AT5G67070	50.0677	41.6229	-0.266502697	0.01065	0.032587
AT5G67080	0.75928	4.97055	2.710701585	0.00005	0.000282578
AT5G67150	7.15548	10.4198	0.542207133	0.00005	0.000282578
AT5G67160	2.47997	7.08344	1.514127492	0.00005	0.000282578
AT5G67200	3.39667	4.47288	0.397082992	0.00985	0.0305115
AT5G67245	1.91757	3.48382	0.861390842	0.01655	0.0471864
AT5G67260	26.6534	15.5148	-0.780674481	0.00005	0.000282578
AT5G67270	10.2126	5.19514	-0.975115672	0.00005	0.000282578
AT5G67290	14.2795	20.6143	0.529700008	0.00005	0.000282578
AT5G67340	2.56004	4.77833	0.90034014	0.00005	0.000282578

AT5G67350	5.03595	6.74762	0.42211477	0.0114	0.034515
AT5G67370	33.9354	40.6719	0.26124137	0.0138	0.0405566
AT5G67385	64.2326	36.1678	-0.82859985	0.00005	0.000282578
AT5G67390	16.4008	6.39776	-1.35812741	0.00005	0.000282578
AT5G67400	42.5264	35.0459	-0.279113057	0.01185	0.0356661
AT5G67420	83.1506	52.5902	-0.66093269	0.00005	0.000282578
AT5G67430	6.80365	11.3744	0.741409614	0.00005	0.000282578
AT5G67450	2.88605	6.8287	1.24251466	0.00005	0.000282578
AT5G67490	44.2524	54.951	0.312390035	0.0076	0.024527
AT5G67500	117.514	94.3272	-0.317086894	0.009	0.0282735
AT5G67520	2.244	1.115	-1.009028966	0.00415	0.0146251
AT5G67560	48.5111	32.7626	-0.566265041	0.00005	0.000282578
AT5G67580	21.7838	27.4428	0.333172046	0.0023	0.00880163
AT5G67610	9.29328	14.3121	0.622975592	0.00005	0.000282578
AT5G67630	15.1366	19.5038	0.365714055	0.00225	0.00863481
ATCG00180	1.39785	0.799419	-0.80618579	0.0047	0.0162675
ATCG00190	3.04264	1.27073	-1.259666122	0.00005	0.000282578
ATCG00480	11.729	5.35264	-1.131757486	0.00005	0.000282578
ATCG00490	12.3602	7.5939	-0.702789182	0.00005	0.000282578
ATCG00530	2.88271	1.19953	-1.26495647	0.0058	0.0194564
ATCG00680	2.91892	1.5795	-0.885966734	0.00025	0.00123846
ATCG01060	0	10.3254	inf	0.0117	0.0352839
ATMG00080	0.638463	10.6943	4.066095227	0.0015	0.00606399
ATMG00090	0.344293	4.17201	3.599033862	0.00005	0.000282578
ATMG00110	0.264757	8.68125	5.035162055	0.0092	0.0288044
ATMG00120	0	2.13962	inf	0.00005	0.000282578
ATMG00130	0	1.92044	inf	0.00015	0.000779873
ATMG00140	0	1.3414	inf	0.00005	0.000282578
ATMG00150	0	1.73941	inf	0.0007	0.00310863
ATMG00160	0.339038	8.75759	4.691015022	0.00005	0.000282578
ATMG00180	0.133842	12.2437	6.515364882	0.0004	0.00188925
ATMG00260	0	2.17184	inf	0.00635	0.0210292
ATMG00300	0	1.55882	inf	0.00005	0.000282578
ATMG00320	0	1.56946	inf	0.0004	0.00188925
ATMG00400	0	1.23931	inf	0.00005	0.000282578
ATMG00410	0.0879701	0.857617	3.285248347	0.01155	0.0349062
ATMG00450	0	1.7765	inf	0.0117	0.0352839
ATMG00510	0.29631	1.34979	2.18755575	0.00145	0.00588787
ATMG00513	0.0922029	0.854236	3.211750666	0.0053	0.0180196
ATMG00520	0.181992	4.58233	4.65413442	0.00005	0.000282578
ATMG00570	0	1.04227	inf	0.00005	0.000282578
ATMG00580	0.1049	2.27236	4.43710483	0.00065	0.00291062
ATMG00640	0.360601	9.04381	4.64845538	0.00255	0.00962703
ATMG00650	0	3.10663	inf	0.0028	0.0104493
ATMG00660	0.976578	10.4873	3.42476421	0.0007	0.00310863
ATMG00670	0.390043	2.39627	2.619085386	0.0009	0.00387377
ATMG00690	1.02003	18.0874	4.148301552	0.00005	0.000282578



ATMG00720	0	2.34098	inf	0.00315	0.0115529
ATMG00820	0	1.98244	inf	0.00005	0.000282578
ATMG00830	0.126588	2.40458	4.24757237	0.00195	0.00762526
ATMG00860	0	0.508456	inf	0.00175	0.00694124
ATMG00940	0	2.47762	inf	0.00005	0.000282578
ATMG01000	2.34318	12.9445	2.465799551	0.00375	0.0134211
ATMG01050	0	0.773811	inf	0.00025	0.00123846
ATMG01080	0	1.36677	inf	0.00005	0.000282578
ATMG01090	0.178815	16.609	6.537353641	0.0063	0.0208862
ATMG01130	0	3.6504	inf	0.00005	0.000282578
ATMG01170	0.135377	1.67978	3.633217739	0.0012	0.00498818
ATMG01180	0	4.80702	inf	0.00005	0.000282578
ATMG01200	0.330303	3.91613	3.567566679	0.00025	0.00123846
ATMG01260	0	0.777161	inf	0.00005	0.000282578
ATMG01360	0.420778	6.5466	3.959614651	0.00005	0.000282578
ATMG01370	0	25.2816	inf	0.00005	0.000282578
ATMG01410	0	0.628314	inf	0.00005	0.000282578