

**Supplementary Table 1.** List of all 2245 DEGs from IPG/SG comparison groups.

Gene_id	readcount_IPG	readcount_IPG	log <sub>2</sub> Fold change (IPG vs SG)	q value
AT5G22890	28.17093568	0	9.2233	1.01E-05
AT1G51840	26.87572025	0	8.1554	3.71E-06
AT1G51830	114.6265659	0	7.663	7.41E-26
AT5G23990	18.78062379	0	7.6383	0.00010944
AT5G07990	110.7871773	0	7.2919	8.63E-26
AT2G24762	40.01290536	0	6.4076	4.39E-10
AT1G73120	15.86638906	0	6.395	0.00023408
AT3G46900	10.40798116	0	6.2018	0.0042396
AT5G59520	71.42187962	0	6.1731	8.35E-18
AT4G29740	18.22553146	0	5.7877	5.61E-05
AT5G17040	17.80921221	0	5.7543	7.03E-05
AT5G04950	41.30812079	0	5.688	1.45E-10
AT3G28345	132.7133242	2.59230539	5.6779	4.64E-33

AT1G08430	10.36172347	0	5.4584	0.0041332
AT2G25090	17.48540835	0	5.3653	8.51E-05
AT5G26270	27.10700872	0	5.2608	4.25E-07
AT4G25100	210.7500541	5.514540558	5.2561	3.67E-52
AT5G48010	339.8090205	9.332299405	5.1863	6.96E-84
AT5G35190	40.75302846	1.178320632	5.1121	2.37E-10
AT4G12510	23.63768166	0	4.9701	3.30E-06
AT5G48000	252.8908134	8.201111598	4.9466	6.28E-62
AT1G31320	12.62835048	0	4.8958	0.0013444
AT5G03995	14.98749287	0	4.8534	0.00038436
AT5G50760	46.76652869	1.649648885	4.8252	1.13E-11
AT3G08040	65.45463709	2.309508439	4.8248	3.62E-16
AT3G56290	34.32320899	1.272586283	4.7533	1.15E-08
AT3G09220	129.9378626	4.996079479	4.7009	1.67E-31
AT4G04750	16.65276986	0	4.6575	0.00017379
AT4G12520	106.9477887	4.430485576	4.5933	8.50E-26

AT3G14060	21.55608543	0	4.5892	1.34E-05
AT3G49330	13.36847358	0	4.5629	0.0010473
AT4G31940	11.6569389	0	4.5431	0.0025919
AT4G11210	19.70577767	0	4.5377	3.73E-05
AT5G47980	19.70577767	0	4.5377	3.73E-05
AT4G31330	11.93448507	0	4.5248	0.0022617
AT1G66725	36.45106292	1.602516059	4.5076	5.05E-09
AT4G37310	24.60909324	1.084054981	4.5047	2.86E-06
AT2G25160	32.33412815	1.461117584	4.4679	4.91E-08
AT5G47990	194.7911497	8.813838327	4.466	2.86E-46
AT3G26290	14.29362746	0	4.4371	0.00069633
AT1G64500	14.24736977	0	4.4324	0.00071582
AT4G37160	15.26503904	0	4.4324	0.00041935
AT1G54970	11.98074276	0	4.4048	0.0023542
AT5G04960	23.73019705	1.131187807	4.3908	5.18E-06
AT5G62210	36.31228983	1.791047361	4.3416	7.28E-09

AT3G62680	32.88922047	1.649648885	4.3174	4.66E-08
AT1G65970	118.234666	5.938735985	4.3154	8.21E-28
AT2G03090	116.8931929	6.033001636	4.2762	2.17E-27
AT5G47950	27.19952411	1.413984758	4.2657	9.86E-07
AT1G80340	18.04050068	0	4.2584	0.00011523
AT3G61220	57.45205602	3.016500818	4.2514	1.30E-13
AT3G45710	100.703	5.326009256	4.2409	1.47E-23
AT4G34881	618.9742042	32.75731357	4.24	1.60E-143
AT2G23910	134.3786012	7.541252044	4.1554	5.04E-31
AT1G78990	24.33154707	1.366851933	4.1539	5.17E-06
AT4G08400	24.74786632	1.413984758	4.1295	4.31E-06
AT4G29905	250.6241864	14.32837888	4.1286	1.84E-57
AT5G10230	23.82271244	1.366851933	4.1234	7.00E-06
AT5G66580	13.09092742	0	4.1176	0.0016248
AT3G01260	32.657932	1.885313011	4.1146	7.69E-08
AT1G77990	22.85130086	1.319719108	4.114	1.17E-05

AT3G49960	12.16577354	0	4.105	0.0026093
AT4G04840	30.94639732	1.838180186	4.0734	2.00E-07
AT5G38100	14.20111208	0	4.0651	0.0009773
AT3G44990	182.9029223	10.93481546	4.0641	1.18E-41
AT3G57020	257.6553559	15.69523082	4.037	2.12E-58
AT2G46420	19.93706614	1.225453457	4.0241	5.77E-05
AT4G08410	38.99523609	2.450906914	3.9919	4.03E-09
AT1G64170	28.95731648	1.838180186	3.9776	6.60E-07
AT5G13900	24.65535093	1.649648885	3.9017	6.59E-06
AT5G57785	28.17093568	1.885313011	3.9013	1.14E-06
AT4G08040	19.56700459	1.319719108	3.8901	8.35E-05
AT1G32450	306.31845	21.8224981	3.8111	3.32E-67
AT3G45700	23.68393936	1.69678171	3.803	1.28E-05
AT4G01680	13.13718511	0	3.8008	0.0021101
AT2G25000	15.03375057	1.084054981	3.7937	0.00085861
AT5G20700	322.5549007	23.56641264	3.7747	2.39E-70

AT5G66690	139.8370091	10.22782309	3.7732	1.29E-30
AT4G00880	49.54199033	3.629227546	3.7709	4.27E-11
AT2G01530	614.1171463	45.43604357	3.7566	1.99E-133
AT5G08640	613.9783732	45.48317639	3.7548	2.31E-133
AT1G51860	46.99781716	3.487829071	3.7522	1.61E-10
AT3G46130	22.01866237	1.649648885	3.7385	3.20E-05
AT2G40230	14.70994671	1.131187807	3.7009	0.0011159
AT2G39310	230.6408626	17.76907513	3.6982	1.06E-49
AT5G13930	2386.989529	185.5148003	3.6856	0
AT1G16400	52.73377122	4.147688624	3.6683	1.37E-11
AT3G58990	50.18959805	3.959157323	3.6641	4.85E-11
AT2G36090	16.42148139	1.319719108	3.6373	0.00054116
AT1G22750	49.68076342	4.006290149	3.6323	7.09E-11
AT1G35515	12.58209278	1.036922156	3.601	0.0033765
AT3G25930	108.4280349	8.955236803	3.5979	4.11E-23
AT3G09260	11533.93969	955.1938371	3.5939	0

AT1G78090	61.80027926	5.137477955	3.5885	2.59E-13
AT4G28250	115.6442351	9.662229182	3.5812	1.51E-24
AT1G64780	183.4117569	15.36530104	3.5773	1.01E-38
AT3G59340	22.85130086	1.932445836	3.5638	3.01E-05
AT4G37760	34.83204362	2.969367993	3.5522	1.13E-07
AT5G49080	28.72602801	2.450906914	3.551	1.99E-06
AT1G14160	18.22553146	1.555383234	3.5506	0.00026417
AT2G29340	14.89497749	1.272586283	3.549	0.001241
AT4G15393	74.93746437	6.410064238	3.5473	6.17E-16
AT1G70890	32.42664353	2.780836691	3.5436	3.56E-07
AT5G19600	23.59142397	2.026711487	3.541	2.23E-05
AT2G04090	14.20111208	1.225453457	3.5346	0.0017358
AT4G04745	16.23645061	1.413984758	3.5214	0.00069536
AT4G13390	44.31487091	3.864891673	3.5193	1.46E-09
AT5G26310	18.87313917	1.649648885	3.5161	0.00020794
AT3G09270	284.1147569	24.83899892	3.5158	3.63E-59

AT3G25190	258.6730252	22.85942026	3.5003	1.05E-53
AT4G15290	16.05141984	1.461117584	3.4576	0.00083244
AT4G22460	14.38614285	1.319719108	3.4464	0.0017941
AT4G28740	13.27595819	1.225453457	3.4374	0.002976
AT5G09520	28.58725493	2.639438216	3.4371	2.86E-06
AT4G20240	22.94381625	2.120977138	3.4353	3.78E-05
AT2G18050	41.40063618	3.864891673	3.4212	8.44E-09
AT5G36180	37.19118602	3.487829071	3.4146	6.00E-08
AT1G14960	40.15167844	3.770626022	3.4126	1.56E-08
AT5G47110	52.59499814	4.996079479	3.3961	5.57E-11
AT5G48880	127.162401	12.16026892	3.3864	6.32E-26
AT4G39770	22.11117776	2.120977138	3.382	6.21E-05
AT1G12740	60.96764077	5.89160316	3.3713	1.35E-12
AT1G55990	54.67659437	5.373142082	3.3471	2.79E-11
AT4G12330	12.4433197	1.225453457	3.344	0.0048733
AT3G23730	22.94381625	2.262375613	3.3422	4.67E-05



AT2G28470	71.42187962	7.069923792	3.3366	1.43E-14
AT4G31910	59.81119841	6.033001636	3.3095	3.37E-12
AT1G49310	56.29561367	5.703071859	3.3032	1.71E-11
AT3G20370	258.1179328	26.39438216	3.2897	3.29E-51
AT4G17280	47.22910563	4.854681004	3.2822	1.14E-09
AT5G48290	35.15584748	3.629227546	3.276	2.49E-07
AT4G35030	30.94639732	3.205032119	3.2714	1.62E-06
AT1G78370	32.657932	3.39356342	3.2666	7.69E-07
AT1G60270	39.78161689	4.147688624	3.2617	3.42E-08
AT2G48130	124.5719701	13.0557926	3.2542	1.17E-24
AT2G24980	76.60274136	8.059713123	3.2486	2.71E-15
AT1G22430	16.51399678	1.743914535	3.2433	0.00095852
AT5G41040	124.3406816	13.15005825	3.2412	1.54E-24
AT3G01420	255.5737597	27.05424171	3.2398	4.13E-50
AT3G02885	17.53166605	1.885313011	3.2171	0.00064725
AT5G62920	17.67043913	1.932445836	3.1928	0.00063889

AT5G01250	13.78479283	1.508250409	3.1921	0.0033221
AT1G34040	34.73952824	3.817758848	3.1858	4.17E-07
AT2G43100	46.720271	5.137477955	3.1849	2.30E-09
AT4G22666	38.9489784	4.336219926	3.1671	7.32E-08
AT2G38380	561.6146635	62.87518892	3.159	8.66E-108
AT2G34610	15.5425852	1.743914535	3.1558	0.0016771
AT5G06330	16.328966	1.838180186	3.1511	0.0012179
AT5G54230	31.36271657	3.534961896	3.1493	2.05E-06
AT1G52070	87.28826868	9.945026134	3.1337	6.97E-17
AT5G06640	101.8131846	11.64180784	3.1285	1.31E-19
AT1G13250	13.9698236	1.602516059	3.1239	0.0034042
AT3G48100	37.70002066	4.336219926	3.1201	1.53E-07
AT5G37690	55.13917132	6.362931413	3.1153	8.93E-11
AT2G22920	50.42088652	5.844470334	3.1089	7.07E-10
AT1G73620	18.6418507	2.168109963	3.104	0.00050538
AT4G35060	48.38554798	5.655939033	3.0967	1.79E-09

AT4G29140	22.43498162	2.639438216	3.0874	0.00010759
AT4G05200	17.57792374	2.073844312	3.0834	0.00082131
AT4G21230	19.65951997	2.356641264	3.0604	0.00036345
AT1G28130	48.66309415	5.844470334	3.0577	1.98E-09
AT4G26850	82.38495311	9.897893308	3.0572	1.22E-15
AT5G26010	18.41056223	2.215242788	3.055	0.00061681
AT1G13080	29.32737803	3.534961896	3.0525	6.72E-06
AT5G62720	29.5586665	3.582094721	3.0447	6.29E-06
AT1G65060	72.30077581	8.766705502	3.0439	1.01E-13
AT3G49120	197.612869	23.99060807	3.0421	7.09E-37
AT1G03820	30.66885116	3.723493197	3.042	3.99E-06
AT2G01520	949.1616243	115.8524845	3.0344	5.07E-176
AT5G53110	28.91105879	3.534961896	3.0319	8.62E-06
AT5G66460	15.03375057	1.838180186	3.0319	0.0025565
AT2G37460	19.56700459	2.403774089	3.025	0.00040738
AT2G43920	258.3029636	32.09745401	3.0085	1.14E-47

AT2G41370	20.39964308	2.545172565	3.0027	0.00030574
AT3G52740	32.10283968	4.006290149	3.0024	2.55E-06
AT4G33610	73.31844508	9.238033754	2.9885	1.07E-13
AT1G66800	32.88922047	4.147688624	2.9872	1.97E-06
AT1G70850	2617.075299	332.2864182	2.9775	0
AT2G32990	74.84494898	9.520830706	2.9747	6.37E-14
AT5G61420	31.77903582	4.053422974	2.9709	3.28E-06
AT4G04850	20.58467386	2.639438216	2.9633	0.00031162
AT4G37470	53.52015202	6.881392491	2.9593	4.81E-10
AT3G26210	25.99682406	3.346430595	2.9576	3.58E-05
AT4G36610	35.75719751	4.619016877	2.9526	6.96E-07
AT5G48800	15.68135829	2.026711487	2.9518	0.0022706
AT3G09925	16.74528525	2.168109963	2.9492	0.0015004
AT5G06630	45.61008634	5.938735985	2.9411	1.35E-08
AT5G49270	18.36430454	2.403774089	2.9335	0.00081535
AT1G67195	24.79412401	3.252164944	2.9305	6.32E-05

AT5G64940	34.73952824	4.571884052	2.9257	1.18E-06
AT5G50100	21.41731235	2.827969517	2.9209	0.0002484
AT3G21560	130.4929549	17.3448797	2.9114	1.47E-23
AT4G00700	38.62517454	5.184610781	2.8972	2.83E-07
AT1G54540	19.56700459	2.639438216	2.8901	0.00056051
AT4G33960	15.68135829	2.120977138	2.8862	0.0025693
AT1G13300	108.4280349	14.75257431	2.8777	1.94E-19
AT5G24090	19.01191226	2.59230539	2.8746	0.00072006
AT4G14440	48.15425951	6.598595539	2.8674	7.41E-09
AT3G29250	101.4431231	13.90418346	2.8671	3.80E-18
AT1G54010	43.66726319	5.98586881	2.8669	4.46E-08
AT1G10470	122.3516008	16.82641862	2.8622	8.82E-22
AT4G12030	27.75461643	3.817758848	2.8619	2.43E-05
AT1G23010	36.63609369	5.043212305	2.8609	7.33E-07
AT1G18870	18.13301607	2.49803974	2.8598	0.0010474
AT3G20100	56.34187136	7.776916171	2.8569	3.09E-10

AT1G07610	285.2249416	39.40304193	2.8557	2.96E-50
AT3G55120	235.4979204	32.56878227	2.8542	1.62E-41
AT2G19970	17.71669682	2.450906914	2.8537	0.0012502
AT5G13630	44.08358244	6.127267286	2.8469	4.22E-08
AT1G42550	36.86738216	5.137477955	2.8432	7.27E-07
AT3G62270	90.98888421	12.72586283	2.8379	3.59E-16
AT4G30450	60.92138307	8.672439851	2.8124	7.01E-11
AT3G50740	121.2876738	17.39201253	2.8019	3.49E-21
AT2G40320	16.328966	2.356641264	2.7926	0.0024066
AT1G13970	16.97657372	2.450906914	2.7922	0.0018884
AT5G07475	29.37363573	4.241954275	2.7917	1.68E-05
AT5G53370	96.30851903	13.95131628	2.7873	8.12E-17
AT3G16450	785.7331912	113.825773	2.7872	3.30E-135
AT4G20390	88.16716487	12.77299565	2.7871	1.98E-15
AT2G28250	69.57157186	10.08642461	2.7861	2.93E-12
AT3G44310	191.0905341	27.71410126	2.7856	5.44E-33

AT5G08050	18.50307762	2.686571041	2.7839	0.0010799
AT1G07590	567.6281638	82.48244424	2.7828	1.45E-97
AT2G47360	15.49632751	2.262375613	2.776	0.003404
AT3G51820	22.20369315	3.252164944	2.7713	0.00027407
AT5G45380	52.59499814	7.824048996	2.7489	2.82E-09
AT4G19690	134.0547974	19.98431792	2.7459	5.97E-23
AT2G48140	72.85586814	10.88768264	2.7423	1.23E-12
AT1G80240	57.54457141	8.672439851	2.7302	4.90E-10
AT1G78120	58.60849837	8.860971152	2.7256	3.39E-10
AT4G19030	39.87413228	6.033001636	2.7245	4.12E-07
AT4G37070	64.43696782	9.756494833	2.7235	3.71E-11
AT5G14200	157.9237675	23.94347524	2.7215	9.60E-27
AT1G18290	14.98749287	2.309508439	2.6981	0.0048274
AT1G79410	22.62001239	3.487829071	2.6972	0.00029151
AT4G01440	37.23744372	5.750204684	2.6951	1.29E-06
AT1G07090	21.0009931	3.252164944	2.691	0.00054055

AT5G42590	17.85546991	2.780836691	2.6828	0.0017402
AT4G25090	29.88247036	4.666149703	2.679	2.13E-05
AT1G75500	255.2036981	40.01576866	2.673	2.63E-42
AT4G21740	20.12209691	3.157899294	2.6717	0.0007835
AT1G31050	45.51757095	7.164189442	2.6675	6.92E-08
AT5G13580	46.53524022	7.399853569	2.6528	5.22E-08
AT4G11190	37.3299591	5.938735985	2.6521	1.54E-06
AT2G16750	91.63649193	14.70544149	2.6396	3.08E-15
AT5G05270	305.3007808	49.01813829	2.6388	5.99E-50
AT4G13770	81.13599537	13.0557926	2.6357	1.65E-13
AT3G59370	58.46972529	9.426565056	2.6329	7.38E-10
AT2G22510	125.3583509	20.21998204	2.6322	1.22E-20
AT5G01840	17.53166605	2.827969517	2.6321	0.0021941
AT1G73650	54.90788284	8.860971152	2.6315	2.75E-09
AT1G02810	117.4945429	18.99452859	2.6289	2.36E-19
AT2G01900	18.04050068	2.922235167	2.6261	0.0018599



AT1G69310	63.92813319	10.36922156	2.6241	1.06E-10
AT1G58360	28.44848184	4.619016877	2.6227	4.49E-05
AT4G20820	51.06849424	8.295377249	2.6221	1.20E-08
AT2G37970	196.5026844	31.95605554	2.6204	5.06E-32
AT3G54590	140.9471938	23.04795156	2.6124	5.30E-23
AT5G57150	60.7363523	9.992158959	2.6037	4.10E-10
AT5G25460	141.82609	23.37788134	2.6009	4.81E-23
AT2G40480	55.97180981	9.238033754	2.599	2.38E-09
AT1G12110	190.1653803	31.67325859	2.5859	1.32E-30
AT1G72430	46.07266328	7.68265052	2.5842	9.52E-08
AT1G79620	21.13976618	3.534961896	2.5802	0.00070045
AT2G21100	16.328966	2.733703866	2.5785	0.0037988
AT2G23610	77.8516991	13.0557926	2.576	1.05E-12
AT4G40090	33.12050894	5.561673383	2.5741	1.03E-05
AT3G26300	24.33154707	4.100555799	2.5689	0.00023444
AT3G26440	82.75501467	13.95131628	2.5684	1.95E-13

AT5G42500	32.01032429	5.420274907	2.5621	1.62E-05
AT2G34080	20.2146123	3.440696245	2.5546	0.0010404
AT5G24930	57.03573677	9.709362007	2.5544	2.30E-09
AT4G00080	23.45265089	4.006290149	2.5494	0.00034114
AT4G18640	44.3611286	7.58838487	2.5474	2.19E-07
AT4G25820	33.86063205	5.797337509	2.5461	9.03E-06
AT3G54600	35.20210518	6.033001636	2.5447	5.67E-06
AT3G44326	30.66885116	5.278876431	2.5385	2.85E-05
AT5G25810	56.34187136	9.709362007	2.5368	3.40E-09
AT2G15620	205.6154501	35.44388461	2.5363	1.96E-32
AT1G74460	104.5886463	18.05187208	2.5345	1.16E-16
AT1G72200	19.33571612	3.346430595	2.5306	0.0015061
AT3G32980	991.3023836	172.0348123	2.5266	4.79E-155
AT1G13930	1169.625794	203.4724067	2.5231	1.15E-182
AT5G53250	87.42704177	15.27103539	2.5173	6.75E-14
AT5G51110	19.89080844	3.487829071	2.5117	0.0013094

AT3G58810	27.93964721	4.901813829	2.5109	8.29E-05
AT2G17500	226.1538662	39.73297171	2.5089	2.91E-35
AT1G77760	72.90212583	12.82012848	2.5076	1.27E-11
AT5G23010	61.84653695	10.88768264	2.506	6.34E-10
AT5G57625	25.30295865	4.477618401	2.4985	0.0002132
AT5G23190	43.5747478	7.776916171	2.4862	4.20E-07
AT3G20110	34.55449746	6.174400111	2.4845	9.54E-06
AT2G21960	20.44590077	3.676360372	2.4755	0.0011998
AT5G67400	25.90430867	4.666149703	2.4729	0.00019041
AT3G60550	34.2306936	6.174400111	2.4709	1.14E-05
AT5G10130	33.16676664	5.98586881	2.4701	1.64E-05
AT3G22620	150.1062172	27.10137453	2.4695	3.79E-23
AT5G58770	21.37105465	3.864891673	2.4672	0.00090014
AT4G30470	82.80127236	14.98823844	2.4658	6.36E-13
AT3G24300	98.8526922	17.91047361	2.4645	2.41E-15
AT4G25640	406.9751923	73.81000439	2.4631	4.01E-62

AT4G18020	27.2457818	4.948946654	2.4608	0.00012677
AT3G21260	46.85904408	8.531041375	2.4575	1.65E-07
AT4G37750	19.89080844	3.629227546	2.4544	0.0015308
AT1G48500	31.22394349	5.703071859	2.4528	3.41E-05
AT4G13620	19.05816995	3.487829071	2.45	0.0020413
AT3G43670	49.35695956	9.049502453	2.4473	7.54E-08
AT5G66040	341.5668129	62.63952479	2.447	8.41E-52
AT1G49500	82.98630314	15.27103539	2.4421	7.95E-13
AT3G19030	493.5233379	91.06061844	2.4382	1.62E-74
AT4G15765	18.13301607	3.346430595	2.4379	0.0028661
AT2G22590	42.788367	7.918314647	2.434	7.54E-07
AT2G26355	79.42446069	14.70544149	2.4332	2.98E-12
AT2G47540	22.06492006	4.100555799	2.4279	0.0008062
AT1G10960	33.4443128	6.221532937	2.4264	1.83E-05
AT2G26980	86.82569174	16.16655907	2.4251	2.64E-13
AT4G11320	982.5134218	183.2524247	2.4226	3.22E-147

AT4G02075	17.9017276	3.346430595	2.4194	0.0032352
AT5G38030	71.37562193	13.38572238	2.4147	5.70E-11
AT1G49430	40.05916305	7.541252044	2.4093	2.20E-06
AT2G30840	24.28528938	4.571884052	2.4092	0.00040925
AT3G16420	2750.575004	517.942617	2.4089	0
AT3G04110	16.88405833	3.205032119	2.3973	0.0048104
AT5G65380	234.2952204	44.68191836	2.3906	9.23E-35
AT4G02270	32.24161276	6.174400111	2.3846	3.31E-05
AT4G24130	94.45821126	18.09900491	2.3838	3.45E-14
AT4G22160	18.36430454	3.534961896	2.3771	0.0031007
AT1G80050	44.77744785	8.625307026	2.3761	5.63E-07
AT4G27654	77.94421448	15.03537126	2.3741	9.79E-12
AT4G29020	26.36688561	5.09034513	2.3729	0.00023641
AT1G30650	34.64701285	6.692861189	2.372	1.62E-05
AT4G32650	87.79710332	16.9678171	2.3714	3.78E-13
AT2G23600	31.68652043	6.127267286	2.3706	4.26E-05

AT5G26280	913.4506845	176.7480948	2.3696	8.43E-134
AT3G63540	26.22811253	5.09034513	2.3653	0.0002548
AT5G38020	100.1016499	19.51298967	2.359	7.39E-15
AT1G72230	30.94639732	6.033001636	2.3588	5.72E-05
AT4G30670	47.4603941	9.28516658	2.3537	2.72E-07
AT3G63520	131.233078	25.68738978	2.353	2.60E-19
AT1G65985	43.48223241	8.531041375	2.3496	1.02E-06
AT1G71960	28.58725493	5.608806208	2.3496	0.000127
AT2G41660	110.0933119	21.6339668	2.3474	3.26E-16
AT5G41140	66.74985252	13.15005825	2.3437	5.47E-10
AT2G25810	39.18026687	7.729783346	2.3416	4.33E-06
AT5G38010	26.87572025	5.326009256	2.3352	0.00023255
AT5G40890	206.1705424	40.91129234	2.3333	7.34E-30
AT5G60660	89.55489569	17.81620796	2.3296	3.68E-13
AT1G16060	23.40639319	4.713282528	2.3121	0.00076229
AT1G52060	35.34087826	7.164189442	2.3025	1.83E-05

AT4G30190	1440.557108	292.1292511	2.3019	1.75E-204
AT2G44230	22.75878548	4.619016877	2.3008	0.00097113
AT3G45410	27.75461643	5.655939033	2.2949	0.000207
AT4G29720	35.38713595	7.211322268	2.2949	1.88E-05
AT5G42860	46.95155947	9.567963531	2.2949	4.82E-07
AT5G21020	489.128857	99.78019111	2.2934	2.97E-69
AT5G24380	35.75719751	7.305587918	2.2912	1.71E-05
AT1G31070	84.79035321	17.3448797	2.2894	2.91E-12
AT3G45650	63.41929855	13.00865978	2.2854	2.80E-09
AT4G12880	142.0573784	29.17521885	2.2837	3.19E-20
AT2G32430	24.19277399	4.996079479	2.2757	0.00067731
AT1G64390	123.9243624	25.59312413	2.2756	1.28E-17
AT2G25530	31.45523196	6.504329888	2.2738	7.18E-05
AT5G64120	316.9577197	65.60889279	2.2723	1.74E-44
AT1G53090	22.75878548	4.713282528	2.2716	0.0010668
AT3G25110	51.3922981	10.65201851	2.2704	1.43E-07

AT1G52750	26.92197794	5.608806208	2.263	0.00030484
AT2G46430	23.96148552	4.996079479	2.2618	0.00076364
AT5G17050	111.0647234	23.33074851	2.2511	1.19E-15
AT5G22020	194.4210881	40.91129234	2.2486	4.33E-27
AT5G03760	55.97180981	11.78320632	2.248	4.11E-08
AT1G08990	20.07583922	4.241954275	2.2427	0.0026511
AT1G01580	48.89438262	10.36922156	2.2374	3.97E-07
AT5G44550	125.4046086	26.63004628	2.2355	1.72E-17
AT5G03570	23.03633164	4.901813829	2.2325	0.0011192
AT3G56940	23.91522783	5.09034513	2.2321	0.00086144
AT4G26320	49.7732788	10.60488569	2.2306	3.19E-07
AT3G18170	30.02124344	6.410064238	2.2276	0.00013708
AT1G74090	47.09033255	10.13355743	2.2163	8.01E-07
AT3G62040	68.36887182	14.75257431	2.2124	1.25E-09
AT5G26290	65.63966787	14.18698041	2.21	2.93E-09
AT2G28160	32.657932	7.069923792	2.2077	6.81E-05



AT1G50250	68.09132565	14.75257431	2.2065	1.44E-09
AT1G12380	21.09350849	4.571884052	2.2059	0.0021815
AT1G72160	190.4891841	41.38262059	2.2026	5.87E-26
AT3G45780	36.5435783	7.965447472	2.1978	2.22E-05
AT1G30840	57.86837526	12.63159717	2.1957	3.61E-08
AT2G41310	56.0180675	12.25453457	2.1926	6.47E-08
AT3G02020	33.90688974	7.446986394	2.1868	5.20E-05
AT1G06650	19.52074689	4.2890871	2.1863	0.0036932
AT1G02730	29.14234726	6.410064238	2.1847	0.0002157
AT5G23020	219.4927583	48.40541156	2.1809	1.52E-29
AT1G74930	84.92912629	18.80599729	2.1751	1.23E-11
AT2G17820	42.8346247	9.520830706	2.1696	4.01E-06
AT1G56010	51.06849424	11.40614372	2.1626	3.63E-07
AT3G23510	49.58824803	11.07621394	2.1625	5.64E-07
AT5G61480	38.81020531	8.672439851	2.1619	1.39E-05
AT5G46900	42.97339778	9.615096357	2.1601	4.10E-06

AT3G20015	36.5435783	8.201111598	2.1557	2.80E-05
AT5G48412	152.3265865	34.21843115	2.1543	2.46E-20
AT2G31790	35.20210518	7.918314647	2.1524	4.25E-05
AT3G16430	195.2074689	43.92779316	2.1518	6.35E-26
AT1G72180	26.59817408	5.98586881	2.1517	0.00052701
AT1G11460	27.84713182	6.268665762	2.1513	0.00036615
AT5G19940	22.94381625	5.184610781	2.1458	0.0015448
AT5G21950	20.76970463	4.713282528	2.1397	0.0029526
AT5G10280	31.54774735	7.164189442	2.1387	0.00013201
AT2G24580	58.70101376	13.33858955	2.1378	4.72E-08
AT1G21910	66.98114099	15.22390256	2.1374	4.11E-09
AT3G14940	301.183846	68.67252643	2.1328	1.92E-39
AT1G11450	27.84713182	6.362931413	2.1298	0.00039954
AT5G09530	321.5834891	73.57434026	2.1279	5.57E-42
AT4G13860	34.97081671	8.012580297	2.1258	5.24E-05
AT3G30875	40.52173999	9.28516658	2.1257	1.05E-05

AT1G30270	186.5572801	42.79660535	2.1241	1.94E-24
AT2G33250	24.37780477	5.608806208	2.1198	0.0011268
AT5G22940	23.3138778	5.373142082	2.1174	0.0015353
AT1G74470	56.8044483	13.10292543	2.1161	9.98E-08
AT3G57010	71.00556038	16.4022232	2.114	1.62E-09
AT4G31890	19.33571612	4.477618401	2.1105	0.0048844
AT1G28400	298.0383228	69.09672186	2.1088	1.53E-38
AT3G52370	47.73794027	11.07621394	2.1077	1.46E-06
AT3G22600	311.6843426	72.67881658	2.1005	4.08E-40
AT5G40730	54.12150205	12.63159717	2.0992	2.50E-07
AT1G18880	90.20250341	21.11550572	2.0949	7.73E-12
AT5G42250	68.97022184	16.16655907	2.093	3.69E-09
AT4G29800	24.51657785	5.750204684	2.0921	0.0012026
AT2G05440	3925.520433	920.7397418	2.092	0
AT3G52900	19.89080844	4.666149703	2.0918	0.0044083
AT5G66490	29.51240881	6.928525316	2.0907	0.0002955

AT5G60890	61.01389846	14.32837888	2.0903	3.75E-08
AT2G31585	44.54615938	10.46348721	2.0899	4.16E-06
AT3G11720	27.2457818	6.410064238	2.0876	0.00056973
AT3G50640	20.81596233	4.901813829	2.0863	0.0034374
AT1G65310	52.64125584	12.44306587	2.0809	4.42E-07
AT4G31730	32.47290123	7.68265052	2.0796	0.00013525
AT3G28050	46.99781716	11.12334677	2.079	2.24E-06
AT1G78060	95.79968439	22.71802178	2.0762	2.00E-12
AT3G45160	90.43379188	21.4454355	2.0762	9.43E-12
AT5G22740	188.5926187	44.72905119	2.076	4.42E-24
AT1G70370	95.01330359	22.57662331	2.0733	2.62E-12
AT1G07560	23.59142397	5.608806208	2.0725	0.0016689
AT1G80870	30.48382038	7.258455093	2.0703	0.00024659
AT1G53940	39.31903995	9.426565056	2.0604	2.20E-05
AT4G04810	28.30970876	6.78712684	2.0604	0.00047345
AT1G04280	77.0190606	18.47606751	2.0596	5.44E-10

AT5G24120	22.34246623	5.373142082	2.056	0.0024966
AT5G42825	50.37462883	12.16026892	2.0505	1.07E-06
AT5G67070	22.62001239	5.467407732	2.0487	0.0023729
AT1G73885	36.40480522	8.813838327	2.0463	5.41E-05
AT2G45750	45.51757095	11.02908112	2.0451	4.33E-06
AT4G12480	46.25769406	11.21761242	2.0439	3.56E-06
AT3G51950	192.5707804	46.8028955	2.0407	4.14E-24
AT3G54720	27.66210105	6.739994015	2.0371	0.00062702
AT4G24780	107.2253348	26.30011651	2.0275	1.73E-13
AT2G30210	66.51856405	16.35509037	2.024	1.54E-08
AT4G28410	22.01866237	5.420274907	2.0223	0.0030558
AT1G64590	42.23327467	10.41635439	2.0195	1.29E-05
AT4G23400	240.5862668	59.38735985	2.0183	1.16E-29
AT2G01830	92.05281117	22.76515461	2.0156	1.42E-11
AT5G07680	22.43498162	5.561673383	2.0122	0.0028323
AT2G18570	32.657932	8.106845948	2.0102	0.00018225

AT3G23470	41.2156054	10.27495591	2.0041	1.86E-05
AT4G36180	45.9338902	11.45327654	2.0038	5.21E-06
AT2G13820	60.45880613	15.12963691	1.9986	1.05E-07
AT2G31570	123.6468162	30.96626621	1.9975	3.03E-15
AT4G38620	58.28469451	14.61117584	1.996	1.93E-07
AT2G05380	123.36927	31.01339903	1.992	3.64E-15
AT1G22550	55.83303673	14.04558193	1.991	3.92E-07
AT5G12940	33.76811666	8.531041375	1.9849	0.00015436
AT5G43630	102.0444731	25.82878825	1.9821	1.52E-12
AT3G06125	34.97081671	8.860971152	1.9806	0.00011484
AT4G15480	28.26345107	7.164189442	1.9801	0.00068327
AT4G00370	40.56799769	10.32208874	1.9746	2.68E-05
AT3G19370	205.9392539	52.55310018	1.9704	9.67E-25
AT4G32460	28.0321626	7.164189442	1.9682	0.00076404
AT2G02130	421.7313967	107.8870371	1.9668	2.96E-50
AT5G59090	308.0299847	79.04174799	1.9624	1.10E-36

AT5G52882	148.0708787	38.4132526	1.9466	1.21E-17
AT4G17250	31.03891271	8.059713123	1.9453	0.00038711
AT5G40830	33.72185897	8.766705502	1.9436	0.00019423
AT5G17160	27.15326641	7.069923792	1.9414	0.0010771
AT3G22800	64.94580246	16.92068427	1.9404	5.62E-08
AT1G45130	105.9763771	27.61983561	1.94	1.08E-12
AT1G30870	32.98173586	8.625307026	1.935	0.00024608
AT3G45070	31.17768579	8.153978773	1.9349	0.00039217
AT3G16770	146.5906325	38.50751825	1.9286	2.76E-17
AT3G54770	29.5586665	7.776916171	1.9263	0.00062185
AT4G15390	185.215807	48.87673981	1.922	1.17E-21
AT4G27860	113.1925774	29.88221123	1.9214	2.23E-13
AT2G23340	45.56382865	12.06600327	1.9169	1.08E-05
AT1G19210	24.00774322	6.362931413	1.9157	0.0026627
AT3G15354	27.01449333	7.164189442	1.9149	0.0012508
AT3G20380	23.63768166	6.268665762	1.9149	0.0029316

AT3G44550	51.53107118	13.66851933	1.9146	2.35E-06
AT5G57685	129.1977395	34.3126968	1.9128	3.84E-15
AT1G21440	62.40162928	16.5907545	1.9112	1.47E-07
AT5G63410	25.6730202	6.834259665	1.9094	0.0017968
AT3G03520	89.87869955	23.94347524	1.9083	1.23E-10
AT3G48115	87.01072252	23.23648286	1.9048	2.74E-10
AT1G22065	40.29045152	10.79341699	1.9003	4.65E-05
AT4G27657	39.55032842	10.65201851	1.8926	5.89E-05
AT3G19450	400.6378882	108.2640997	1.8877	1.64E-45
AT1G30530	24.37780477	6.598595539	1.8853	0.0027252
AT3G55990	22.38872392	6.080134461	1.8806	0.0045566
AT4G16190	410.8608386	112.0347257	1.8747	2.80E-46
AT1G09090	31.45523196	8.578174201	1.8746	0.00049391
AT2G05920	417.151885	113.9200387	1.8726	6.42E-47
AT2G45470	116.2455852	31.81465706	1.8694	2.65E-13
AT1G19715	24.79412401	6.78712684	1.8691	0.0026142



AT4G02970	63.51181394	17.39201253	1.8686	1.70E-07
AT4G39350	235.4979204	64.57197063	1.8667	1.64E-26
AT5G08330	35.10958979	9.662229182	1.8614	0.00021344
AT1G08320	58.00714835	15.97802777	1.8601	7.27E-07
AT3G26520	1087.102068	299.4819718	1.8599	4.08E-121
AT5G61820	213.8955773	58.96316442	1.859	5.28E-24
AT1G35260	42.88088239	11.83033914	1.8578	3.20E-05
AT4G22120	62.2628562	17.20348123	1.8557	2.64E-07
AT1G13420	34.41572438	9.520830706	1.8539	0.00026403
AT5G42030	26.22811253	7.258455093	1.8534	0.0019643
AT4G08930	37.97756682	10.51062004	1.8533	0.00011083
AT3G56980	26.87572025	7.446986394	1.8516	0.001689
AT4G36640	38.76394762	10.74628416	1.8509	9.29E-05
AT3G61270	41.2156054	11.45327654	1.8474	5.20E-05
AT2G27840	60.41254844	16.82641862	1.8441	4.68E-07
AT3G26330	41.72444004	11.64180784	1.8416	4.77E-05

AT2G19130	31.40897426	8.766705502	1.8411	0.00059156
AT1G55320	68.87770645	19.27732554	1.8371	6.27E-08
AT5G55730	26.08933945	7.305587918	1.8364	0.0021746
AT2G37180	135.3500128	37.98905717	1.833	4.46E-15
AT1G14480	60.27377536	16.9678171	1.8287	5.63E-07
AT5G44030	37.83879374	10.65201851	1.8287	0.00013282
AT1G12370	24.9328971	7.022790966	1.8279	0.0029699
AT3G06035	54.30653282	15.36530104	1.8214	2.59E-06
AT1G59970	28.30970876	8.012580297	1.821	0.0013699
AT5G10170	83.72642624	23.75494394	1.8175	2.08E-09
AT2G41380	39.82787458	11.31187807	1.8159	8.94E-05
AT2G42760	147.3307556	41.85394885	1.8156	3.45E-16
AT4G37540	80.62716074	22.90655309	1.8155	4.53E-09
AT1G75820	54.53782129	15.50669952	1.8144	2.60E-06
AT1G69252	79.28568761	22.62375613	1.8092	6.84E-09
AT5G11790	140.0682976	39.96863584	1.8092	2.39E-15

AT1G30510	151.956525	43.36219926	1.8091	1.30E-16
AT1G22500	49.95830958	14.28124606	1.8066	8.44E-06
AT5G24030	45.98014789	13.15005825	1.8059	2.18E-05
AT3G23530	110.2783426	31.62612576	1.802	4.11E-12
AT1G11545	40.42922461	11.59467502	1.8019	8.48E-05
AT2G02680	40.75302846	11.68894067	1.8018	7.87E-05
AT5G26260	437.7828165	125.986042	1.797	7.46E-47
AT4G01450	95.79968439	27.57270279	1.7968	1.51E-10
AT5G66052	55.97180981	16.11942625	1.7959	2.18E-06
AT1G60390	39.41155534	11.35901089	1.7948	0.00011258
AT3G57040	25.99682406	7.494119219	1.7945	0.002646
AT1G65510	41.77069773	12.06600327	1.7915	6.59E-05
AT2G38170	30.16001652	8.719572676	1.7903	0.001019
AT5G24290	48.52432107	14.04558193	1.7886	1.37E-05
AT1G49860	76.00139133	22.0110294	1.7878	2.00E-08
AT1G66200	1012.765954	293.3075717	1.7878	1.40E-107

AT4G04830	391.4326071	113.4958433	1.7861	1.30E-41
AT4G40060	137.1540629	39.96863584	1.7789	9.73E-15
AT5G16590	61.61524848	17.95760643	1.7787	6.66E-07
AT1G73330	1034.322039	301.5558161	1.7782	3.93E-109
AT1G54000	417.4294312	121.8854862	1.776	4.62E-44
AT3G50060	67.30494485	19.65438814	1.7759	1.80E-07
AT5G15910	45.28628248	13.2443239	1.7737	3.25E-05
AT1G68710	29.32737803	8.578174201	1.7735	0.0013409
AT5G24850	35.24836287	10.32208874	1.7718	0.00034248
AT5G46790	41.95572851	12.3016674	1.77	7.31E-05
AT3G27170	51.3460404	15.08250409	1.7674	8.37E-06
AT2G36380	396.5209535	116.5123441	1.7669	1.33E-41
AT5G56530	41.86321312	12.3016674	1.7668	7.64E-05
AT5G65390	80.9509646	23.94347524	1.7574	9.04E-09
AT3G54810	220.3253968	65.32609584	1.7539	4.75E-23
AT4G23510	26.36688561	7.824048996	1.7527	0.0028888

AT1G51850	45.42505556	13.52712085	1.7476	3.81E-05
AT5G60450	42.23327467	12.58446435	1.7467	8.05E-05
AT2G39890	38.76394762	11.59467502	1.7413	0.00018277
AT4G38080	279.9978221	84.03782747	1.7363	7.62E-29
AT1G77690	139.9757822	42.04248015	1.7353	1.36E-14
AT2G27000	45.65634403	13.71565216	1.735	3.98E-05
AT1G01750	26.50565869	7.965447472	1.7345	0.0030207
AT2G44940	42.51082084	12.82012848	1.7294	8.49E-05
AT4G14130	110.1395695	33.22864182	1.7288	1.59E-11
AT4G30460	139.4206899	42.1367458	1.7263	1.90E-14
AT4G09750	41.16934771	12.44306587	1.7262	0.0001169
AT3G11410	69.94163341	21.16263855	1.7246	1.73E-07
AT1G78570	507.8169653	154.31287	1.7185	1.98E-51
AT2G28550	96.4935498	29.36375015	1.7164	4.56E-10
AT1G47670	62.58666006	19.08879424	1.7131	1.04E-06
AT1G01610	94.45821126	28.84528907	1.7113	7.85E-10

AT4G22130	84.37403396	25.9230539	1.7026	8.65E-09
AT1G64640	37.00615525	11.40614372	1.698	0.00035382
AT5G66280	48.89438262	15.08250409	1.6968	2.58E-05
AT1G78100	58.14592143	17.95760643	1.6951	3.35E-06
AT5G44110	88.35219565	27.38417149	1.6899	4.25E-09
AT1G04220	56.11058289	17.39201253	1.6898	5.56E-06
AT3G57540	28.49473954	8.860971152	1.6852	0.0024193
AT5G06390	94.73575743	29.55228145	1.6806	1.19E-09
AT3G51860	47.22910563	14.75257431	1.6787	4.29E-05
AT4G14760	80.76593382	25.26319435	1.6767	2.79E-08
AT2G36830	698.0286033	218.7905749	1.6737	2.13E-68
AT2G42320	30.06750114	9.426565056	1.6734	0.0018259
AT3G12610	39.6891015	12.44306587	1.6734	0.00022869
AT5G24165	85.80802247	26.91284323	1.6728	9.53E-09
AT2G46535	54.81536746	17.20348123	1.6719	8.70E-06
AT5G39850	34.87830132	10.98194829	1.6672	0.00067291

AT4G34620	107.6879118	33.9356342	1.666	8.59E-11
AT2G23540	160.8380022	50.71492	1.6651	6.80E-16
AT5G10430	163.3359177	51.75184216	1.6582	4.72E-16
AT4G00430	92.05281117	29.17521885	1.6577	3.04E-09
AT4G27595	26.82946255	8.531041375	1.653	0.0040044
AT1G24280	46.76652869	14.89397279	1.6507	5.87E-05
AT1G63000	211.8602388	67.54133862	1.6493	1.43E-20
AT3G14680	79.47071839	25.35746	1.648	5.35E-08
AT3G23800	43.85229397	13.99844911	1.6474	0.00011171
AT2G14878	182.5791184	58.35043769	1.6457	9.86E-18
AT5G63800	41.53940926	13.29145673	1.644	0.00018676
AT5G63760	37.09867063	11.87747197	1.6431	0.0004811
AT1G14210	65.31586401	20.92697442	1.6421	1.19E-06
AT2G36570	42.92714008	13.76278498	1.6411	0.00014171
AT3G19680	137.0152898	43.97492598	1.6396	2.42E-13
AT3G63200	137.0615475	44.02205881	1.6385	2.45E-13

AT5G58860	98.39011526	31.86178989	1.6267	1.26E-09
AT1G77530	73.45721816	23.80207677	1.6258	2.55E-07
AT1G78580	39.87413228	12.96152695	1.6212	0.00030747
AT3G28200	47.09033255	15.36530104	1.6158	7.17E-05
AT2G22230	27.15326641	8.860971152	1.6156	0.0044006
AT1G15210	299.1485075	97.75347963	1.6136	3.91E-28
AT1G77640	31.1314281	10.18069026	1.6125	0.0019679
AT3G56240	213.340485	69.80371424	1.6118	3.89E-20
AT1G16720	38.99523609	12.77299565	1.6102	0.00039546
AT2G48030	43.99106705	14.42264454	1.6089	0.00014239
AT4G37410	34.92455901	11.45327654	1.6085	0.00092706
AT1G31770	64.48322551	21.16263855	1.6074	2.07E-06
AT1G65690	31.59400504	10.36922156	1.6073	0.001837
AT1G70690	31.50148965	10.36922156	1.6031	0.0019125
AT1G47530	229.0218433	75.41252044	1.6026	1.97E-21
AT4G21960	1726.105854	568.7518026	1.6016	7.66E-160



AT4G12390	55.92555211	18.42893468	1.6015	1.30E-05
AT5G36160	43.75977858	14.42264454	1.6013	0.0001578
AT1G07870	52.68751353	17.39201253	1.599	2.57E-05
AT4G34138	180.2662337	59.57589115	1.5973	7.03E-17
AT5G44130	46.85904408	15.50669952	1.5954	8.78E-05
AT3G15950	1562.261101	518.5082109	1.5912	1.61E-143
AT1G05710	33.02799356	10.98194829	1.5886	0.001517
AT5G02480	165.7413178	55.14540558	1.5876	1.95E-15
AT5G65970	68.5076449	22.81228743	1.5865	1.13E-06
AT5G23920	28.7722857	9.615096357	1.5813	0.0036862
AT5G12420	101.9982154	34.1241655	1.5797	1.29E-09
AT5G44350	37.46873219	12.53733152	1.5795	0.00065409
AT3G16410	42.92714008	14.37551171	1.5783	0.00021936
AT3G12520	30.06750114	10.08642461	1.5758	0.0029205
AT4G00040	52.64125584	17.67480948	1.5745	3.20E-05
AT3G54580	422.0089429	141.7755384	1.5737	2.46E-38

AT1G04250	111.5273004	37.51772892	1.5718	2.12E-10
AT2G14890	287.5840839	96.7636903	1.5714	3.61E-26
AT1G76790	120.4550353	40.53422974	1.5713	3.42E-11
AT1G75780	60.78260999	20.45564617	1.5712	6.40E-06
AT5G53460	1418.214642	477.6911842	1.5699	4.07E-128
AT1G36060	34.41572438	11.59467502	1.5696	0.001275
AT3G23640	110.7871773	37.37633045	1.5676	2.66E-10
AT1G53300	74.61366051	25.21606152	1.5651	4.19E-07
AT2G36890	28.91105879	9.803627658	1.5602	0.0039654
AT4G36190	28.7722857	9.756494833	1.5602	0.0040725
AT1G32640	514.0154964	174.532852	1.5583	4.64E-46
AT2G04780	96.72483827	32.85157922	1.5579	5.35E-09
AT1G12040	38.39388607	13.0557926	1.5562	0.00062836
AT3G55420	36.40480522	12.39593305	1.5543	0.00094136
AT2G40460	33.07425125	11.26474524	1.5539	0.0018077
AT4G20270	85.90053786	29.2694845	1.5533	5.11E-08

AT1G58235	29.00357417	9.897893308	1.551	0.0040651
AT1G05570	316.1250812	107.9341699	1.5503	2.97E-28
AT2G42840	41.40063618	14.23411323	1.5403	0.00038606
AT4G34260	46.62775561	16.07229342	1.5366	0.00014275
AT1G30400	367.9799562	127.2586283	1.5319	2.46E-32
AT4G13290	38.53265915	13.33858955	1.5305	0.00071714
AT2G40150	32.93547817	11.40614372	1.5298	0.0021038
AT1G80830	173.3275796	60.0472194	1.5293	2.16E-15
AT3G21190	58.14592143	20.17284922	1.5273	1.66E-05
AT3G16400	1096.122318	380.9746267	1.5246	2.14E-95
AT2G01890	69.89537572	24.32053784	1.523	1.76E-06
AT1G80280	31.36271657	10.93481546	1.5201	0.0029825
AT1G61667	28.91105879	10.08642461	1.5192	0.0048169
AT5G05960	70.91304499	24.74473327	1.5189	1.51E-06
AT3G63120	60.64383691	21.16263855	1.5188	1.11E-05
AT5G57350	51.57732887	18.00473926	1.5184	6.37E-05

AT3G27060	35.06333209	12.25453457	1.5166	0.0015123
AT3G54040	142.5199554	49.81939632	1.5164	1.35E-12
AT3G14350	105.6988309	36.99926784	1.5144	1.88E-09
AT2G41820	32.01032429	11.21761242	1.5128	0.0027454
AT5G08240	142.3811823	49.96079479	1.5109	1.58E-12
AT5G03555	35.71093981	12.53733152	1.5101	0.0013857
AT3G06390	45.74885942	16.07229342	1.5092	0.00020794
AT1G64370	135.9976205	47.83981766	1.5073	6.00E-12
AT4G25630	160.3291676	56.41799186	1.5068	5.34E-14
AT2G47460	80.67341843	28.42109364	1.5051	2.73E-07
AT2G16720	39.59658611	13.95131628	1.505	0.00068784
AT5G17820	147.5157863	52.17603758	1.4994	7.73E-13
AT3G17609	37.00615525	13.10292543	1.4979	0.0011699
AT2G36290	230.5020895	81.91685033	1.4925	9.95E-20
AT1G33800	65.08457554	23.14221721	1.4918	6.27E-06
AT3G46700	138.4030206	49.34806807	1.4878	5.89E-12

AT1G25520	35.52590904	12.67873	1.4865	0.001641
AT3G26770	36.31228983	13.00865978	1.481	0.0014686
AT5G27420	66.70359483	23.99060807	1.4753	5.54E-06
AT1G30410	36.03474367	12.96152695	1.4752	0.0015944
AT3G45310	77.57415293	27.90263256	1.4752	7.22E-07
AT1G75270	138.495536	49.96079479	1.471	8.53E-12
AT1G06000	60.41254844	21.86963093	1.4659	1.94E-05
AT1G54030	103.1084001	37.32919762	1.4658	7.13E-09
AT4G26220	48.2467749	17.48627818	1.4642	0.00018384
AT3G27390	72.48580659	26.30011651	1.4626	2.18E-06
AT4G26130	52.45622506	19.08879424	1.4584	8.98E-05
AT1G50750	50.46714422	18.38180186	1.4571	0.00013019
AT1G29025	37.60750527	13.71565216	1.4552	0.0013531
AT2G22330	181.6539646	66.26875234	1.4548	3.92E-15
AT2G10410	242.9454092	88.79824282	1.452	4.67E-20
AT2G30520	140.3458438	51.37477955	1.4499	9.83E-12

AT4G02290	56.98947908	20.92697442	1.4453	4.44E-05
AT1G28580	162.9195985	59.8586881	1.4445	1.75E-13
AT1G67360	81.6910877	30.0236097	1.4441	5.09E-07
AT5G10480	87.9358764	32.38025097	1.4413	1.71E-07
AT4G12470	63.28052547	23.37788134	1.4366	1.56E-05
AT1G20560	47.04407486	17.39201253	1.4356	0.00028487
AT2G37170	655.5177825	242.4983861	1.4347	9.18E-53
AT3G05490	131.4643665	48.68820851	1.433	7.32E-11
AT5G55550	33.95314744	12.58446435	1.4319	0.0029526
AT5G07030	142.3349246	52.78876431	1.431	1.06E-11
AT1G78340	56.98947908	21.16263855	1.4292	5.15E-05
AT4G17880	35.10958979	13.0557926	1.4272	0.0024744
AT2G38760	33.81437436	12.58446435	1.426	0.0031177
AT3G21510	156.6285521	58.35043769	1.4245	9.33E-13
AT1G68560	114.3952774	42.65520688	1.4232	1.94E-09
AT2G30200	64.06690627	23.94347524	1.4199	1.62E-05

AT3G51350	32.61167431	12.20740175	1.4176	0.0040473
AT2G36420	89.32360722	33.46430595	1.4164	1.91E-07
AT3G01690	194.1897996	72.82021505	1.4151	1.38E-15
AT2G30970	92.00655348	34.54836093	1.4131	1.25E-07
AT5G61030	62.86420622	23.61354546	1.4126	2.14E-05
AT1G64330	92.70041889	34.92542353	1.4083	1.20E-07
AT1G20950	129.3365126	48.78247416	1.4067	1.90E-10
AT5G62440	54.4915636	20.59704465	1.4036	0.0001004
AT5G10470	52.03990581	19.74865379	1.3979	0.00016074
AT1G75750	584.4197067	221.9013414	1.3971	1.82E-45
AT1G41830	148.5797133	56.41799186	1.397	7.89E-12
AT4G01480	163.1046292	61.97966524	1.3959	6.26E-13
AT1G35320	50.37462883	19.18305989	1.3929	0.0002228
AT4G21910	63.51181394	24.22627219	1.3905	2.40E-05
AT1G27930	36.82112447	14.04558193	1.3904	0.0022784
AT4G31920	39.41155534	15.03537126	1.3903	0.0014747

AT3G53510	38.85646301	14.84683996	1.388	0.00164
AT3G02230	335.3220242	128.3426832	1.3855	6.32E-26
AT5G20960	422.1014583	161.7598564	1.3837	1.71E-32
AT5G59450	50.6059173	19.41872401	1.3819	0.00023422
AT4G31990	169.3956756	65.04329888	1.3809	3.15E-13
AT2G47800	108.3355195	41.61828472	1.3802	1.24E-08
AT4G14960	522.8969736	200.8801013	1.3802	4.62E-40
AT1G23030	54.53782129	20.97410725	1.3786	0.00012407
AT3G23090	89.69366878	34.5012281	1.3784	3.13E-07
AT3G52430	98.62140373	37.94192435	1.3781	6.85E-08
AT2G26650	189.5177725	72.96161353	1.3771	1.06E-14
AT2G47860	37.60750527	14.51691019	1.3733	0.0022094
AT4G13010	98.20508448	37.94192435	1.372	8.12E-08
AT1G63940	207.0494386	80.1729358	1.3688	6.73E-16
AT4G35040	67.44371793	26.15871803	1.3664	1.60E-05
AT5G45480	39.59658611	15.36530104	1.3657	0.0016664



AT1G31540	40.89180155	15.88376212	1.3643	0.001361
AT4G35300	70.31169497	27.33703866	1.3629	1.03E-05
AT5G37790	47.36787871	18.47606751	1.3583	0.00048675
AT5G13650	164.5386178	64.24204085	1.3568	1.40E-12
AT1G66180	281.6630991	110.0080142	1.3564	3.06E-21
AT5G16000	37.79253604	14.79970714	1.3525	0.0024283
AT5G24735	100.0553922	39.21451063	1.3513	8.30E-08
AT2G37860	47.36787871	18.57033316	1.3509	0.00051567
AT2G16400	41.35437849	16.2136919	1.3508	0.0013772
AT1G53280	95.66091131	37.51772892	1.3504	1.75E-07
AT5G41700	489.4526608	192.0191302	1.3499	1.92E-36
AT5G57740	37.42247449	14.70544149	1.3476	0.0026621
AT1G49580	58.28469451	22.90655309	1.3474	8.87E-05
AT3G55360	75.95513364	29.92934405	1.3436	5.05E-06
AT1G62990	38.48640145	15.17676974	1.3425	0.0023085
AT3G26590	37.97756682	14.98823844	1.3413	0.0025244

AT5G41670	223.6096931	88.79824282	1.3324	1.49E-16
AT1G67730	133.0833858	52.97729561	1.3289	5.40E-10
AT1G51070	166.2964101	66.26875234	1.3274	2.35E-12
AT1G22440	145.3879324	57.97337509	1.3264	7.53E-11
AT5G17010	88.39845334	35.25535331	1.3262	8.22E-07
AT4G15160	63.55807163	25.35746	1.3257	4.65E-05
AT2G40080	206.2630578	82.34104576	1.3248	3.43E-15
AT4G30440	329.6323278	131.6891138	1.3237	5.03E-24
AT1G74450	121.8427661	48.68820851	1.3234	3.80E-09
AT1G01630	63.18801008	25.26319435	1.3226	5.10E-05
AT4G15920	62.63291775	25.07466305	1.3207	5.68E-05
AT2G30860	1164.306159	466.7092359	1.3189	7.81E-84
AT1G09560	397.5386227	159.3560823	1.3188	9.19E-29
AT5G65310	167.5916256	67.21140885	1.3182	2.44E-12
AT3G59670	40.98431693	16.44935602	1.317	0.0018238
AT4G34135	92.33035734	37.23493197	1.3101	5.57E-07

AT3G05165	173.0500335	69.80371424	1.3098	1.27E-12
AT1G50560	51.16100963	20.64417747	1.3093	0.00038813
AT2G43360	59.67242533	24.08487372	1.3089	0.00010182
AT2G04160	37.28370141	15.08250409	1.3057	0.0034795
AT1G52280	40.75302846	16.49648885	1.3047	0.0020428
AT5G40910	61.75402157	25.02753022	1.303	7.81E-05
AT3G56370	45.56382865	18.47606751	1.3022	0.0009863
AT1G33560	45.65634403	18.52320033	1.3015	0.00097851
AT1G74950	151.9102673	61.74400111	1.2988	5.16E-11
AT2G34585	122.6291469	49.86652914	1.2982	5.46E-09
AT1G20510	179.3873376	72.96161353	1.2979	6.49E-13
AT1G04680	68.97022184	28.09116387	1.2959	2.70E-05
AT1G05000	66.84236791	27.24277301	1.2949	3.80E-05
AT2G24570	51.99364812	21.30403703	1.2872	0.00040833
AT1G77885	57.82211757	23.70781111	1.2863	0.00016784
AT5G10560	46.53524022	19.08879424	1.2856	0.00096039

AT5G40250	41.58566696	17.06208275	1.2853	0.0020413
AT2G18980	77.38912216	31.81465706	1.2824	8.61E-06
AT2G01950	72.25451812	29.74081275	1.2806	1.93E-05
AT2G43970	752.7514554	309.945459	1.2802	4.03E-52
AT5G44480	50.92972116	20.97410725	1.2799	0.00051305
AT1G74770	86.59440327	35.67954874	1.2792	2.15E-06
AT4G05150	190.6742149	78.57041974	1.2791	1.94E-13
AT4G39955	50.28211344	20.73844312	1.2777	0.00057646
AT2G34710	67.7212641	28.04403104	1.2719	4.28E-05
AT5G59780	86.68691866	35.91521286	1.2712	2.37E-06
AT3G18130	95.38336514	39.59157323	1.2685	6.47E-07
AT2G45510	65.26960631	27.10137453	1.268	6.45E-05
AT3G16470	322.2310968	133.810091	1.2679	3.37E-22
AT1G58080	74.10482588	30.82486773	1.2655	1.74E-05
AT1G18200	37.70002066	15.69523082	1.2642	0.0041971
AT3G58710	49.07941339	20.45564617	1.2626	0.00077723

AT4G36900	42.64959392	17.81620796	1.2593	0.0020696
AT1G28370	45.42505556	18.99452859	1.2579	0.0013857
AT1G30120	129.7990895	54.29701472	1.2573	4.18E-09
AT1G55210	83.68016855	35.01968918	1.2567	4.57E-06
AT2G26900	51.43855579	21.53970115	1.2559	0.00057801
AT2G21660	2014.106257	845.1386901	1.2529	2.18E-135
AT3G15820	72.06948734	30.25927383	1.252	2.76E-05
AT3G63210	71.42187962	30.0236097	1.2503	3.11E-05
AT1G21310	6010.262189	2527.874818	1.2495	0
AT5G56540	102.2757616	43.0794023	1.2474	3.21E-07
AT5G57070	60.36629074	25.45172565	1.246	0.00016733
AT2G46650	55.37045979	23.37788134	1.244	0.00035704
AT4G11650	79.65574916	33.65283725	1.2431	1.00E-05
AT3G52960	80.62716074	34.1241655	1.2405	8.98E-06
AT5G15740	42.23327467	17.91047361	1.2376	0.0025458
AT2G36910	137.1078052	58.16190639	1.2372	2.15E-09

AT4G17770	39.08775148	16.5907545	1.2363	0.0040616
AT2G04030	158.8951791	67.44707297	1.2362	8.53E-11
AT3G28860	151.4014326	64.28917368	1.2357	2.67E-10
AT2G47400	62.81794853	26.81857758	1.2279	0.00013941
AT3G16240	106.0688925	45.29464509	1.2276	2.55E-07
AT2G43290	93.90311893	40.11003431	1.2272	1.52E-06
AT5G19740	66.42604866	28.37396082	1.2272	8.39E-05
AT3G55010	44.03732474	18.85313011	1.2239	0.002152
AT3G22240	72.53206428	31.06053186	1.2235	3.59E-05
AT2G22770	84.46654935	36.24514264	1.2206	6.62E-06
AT3G46290	49.95830958	21.49256833	1.2169	0.00097915
AT4G29700	59.67242533	25.68738978	1.216	0.00024623
AT3G12110	40.61425538	17.48627818	1.2158	0.0037006
AT5G18860	89.13857645	38.46038543	1.2127	3.76E-06
AT1G04040	112.0823927	48.40541156	1.2113	1.42E-07
AT2G16890	51.16100963	22.10529506	1.2107	0.00086786

AT1G11840	462.6231983	199.890312	1.2106	7.90E-30
AT4G13340	648.1165514	280.1575135	1.21	1.21E-41
AT2G41475	70.45046805	30.49493795	1.208	5.80E-05
AT5G58350	47.32162102	20.502779	1.2067	0.0015316
AT2G30020	317.1427504	137.580717	1.2049	2.00E-20
AT4G23670	654.1300516	283.9281395	1.2041	9.52E-42
AT5G65640	53.65892511	23.37788134	1.1987	0.00067511
AT2G29750	46.39646714	20.26711487	1.1949	0.0019013
AT2G39700	110.0470542	48.07548178	1.1947	2.55E-07
AT5G44530	40.52173999	17.7219423	1.1932	0.0043452
AT1G15500	417.6144619	182.7339636	1.1924	2.06E-26
AT3G23490	77.43537985	33.88850137	1.1922	2.60E-05
AT3G13690	51.66984426	22.62375613	1.1915	0.0009449
AT2G43150	2533.071327	1111.674817	1.1882	1.72E-158
AT3G27230	57.40579832	25.21606152	1.1869	0.00044349
AT2G23030	43.38971702	19.08879424	1.1846	0.0030801

AT4G24240	49.95830958	22.0110294	1.1825	0.0012819
AT2G39130	47.83045565	21.11550572	1.1796	0.0017497
AT5G37990	141.5022861	62.54525914	1.1779	4.32E-09
AT1G56280	1149.226151	508.6103176	1.176	5.88E-71
AT4G30020	44.59241707	19.74865379	1.175	0.0028
AT4G17520	314.5060619	139.3246315	1.1746	1.37E-19
AT3G08030	81.27476846	36.10374416	1.1707	2.00E-05
AT1G53730	57.91463296	25.7345226	1.1702	0.00048186
AT2G43710	101.3968654	45.05898097	1.1701	1.28E-06
AT5G27950	58.09966373	25.82878825	1.1695	0.00047275
AT1G76090	118.0496352	52.60023301	1.1663	1.41E-07
AT5G64030	98.34385756	43.83352751	1.1658	2.10E-06
AT1G47480	51.57732887	23.00081874	1.1651	0.0011836
AT5G46470	61.80027926	27.57270279	1.1644	0.00030066
AT5G03240	2374.083632	1059.640178	1.1638	1.88E-144
AT3G55230	49.86579419	22.29382636	1.1614	0.0015278



AT5G60920	292.7649457	131.0763871	1.1593	6.12E-18
AT1G80270	43.34345933	19.41872401	1.1584	0.0037103
AT5G52020	195.2537266	87.80845349	1.1529	5.15E-12
AT3G27150	43.01965547	19.37159119	1.1511	0.0040784
AT1G77510	58.74727145	26.53578063	1.1466	0.00053694
AT5G49810	121.7965085	55.05113992	1.1456	1.26E-07
AT3G02630	72.43954889	32.75731357	1.145	8.98E-05
AT1G64650	82.5237262	37.37633045	1.1427	2.43E-05
AT4G29270	60.55132152	27.43130431	1.1423	0.00043906
AT4G29100	61.52273309	27.90263256	1.1407	0.00039217
AT1G53240	212.3228157	96.38662769	1.1394	7.98E-13
AT4G12600	94.41195357	42.890871	1.1383	5.42E-06
AT5G42180	43.34345933	19.70152097	1.1375	0.0042806
AT3G54400	62.81794853	28.56249212	1.1371	0.00034357
AT1G79270	136.9227744	62.26246219	1.1369	2.02E-08
AT4G02540	68.18384104	31.01339903	1.1365	0.0001714

AT4G07825	56.20309828	25.59312413	1.1349	0.00083015
AT3G04940	58.19217912	26.53578063	1.1329	0.00065216
AT4G21600	69.2940257	31.62612576	1.1316	0.00015661
AT5G26780	84.55906473	38.6017839	1.1313	2.16E-05
AT1G35720	1107.13165	505.6409496	1.1306	8.28E-65
AT2G04410	136.0901359	62.16819654	1.1303	2.61E-08
AT1G43710	146.4981171	66.97574472	1.1292	6.73E-09
AT3G15530	82.24618003	37.61199457	1.1288	3.02E-05
AT4G18010	257.4240674	117.7849304	1.128	2.91E-15
AT3G04810	57.96089065	26.53578063	1.1271	0.00070786
AT1G80490	133.0371281	60.94274308	1.1263	4.22E-08
AT3G44590	56.850706	26.06445238	1.1251	0.00083201
AT5G19530	73.73476433	33.88850137	1.1215	9.90E-05
AT3G27300	89.32360722	41.09982364	1.1199	1.37E-05
AT1G79040	74.42862974	34.26556398	1.1191	9.34E-05
AT4G35160	70.54298344	32.52164944	1.1171	0.00015631

AT1G64950	68.73893337	31.72039141	1.1157	0.00019929
AT2G41480	54.16775974	25.02753022	1.1139	0.0012847
AT1G35516	66.56482175	30.77773491	1.1129	0.00027023
AT3G25530	78.68433759	36.38654111	1.1127	5.87E-05
AT1G67030	50.92972116	23.56641264	1.1118	0.0019634
AT5G19240	111.3422696	51.56331085	1.1106	9.34E-07
AT2G42490	262.7437022	121.7912205	1.1092	3.16E-15
AT4G14010	124.1093932	57.54917966	1.1087	1.90E-07
AT4G20260	549.2638592	254.7057878	1.1087	2.09E-31
AT2G26730	64.43696782	29.88221123	1.1086	0.00037058
AT1G68810	54.4453059	25.31032717	1.1051	0.0013381
AT5G02050	64.34445243	29.92934405	1.1043	0.00039072
AT3G45600	97.04864213	45.15324662	1.1039	6.44E-06
AT2G39900	52.03990581	24.22627219	1.103	0.0018305
AT1G62800	54.95414054	25.59312413	1.1025	0.0012829
AT3G47620	56.66567522	26.39438216	1.1022	0.00104

AT5G50400	45.84137481	21.39830268	1.0992	0.0040682
AT4G18040	76.97280291	35.96234569	1.0979	8.71E-05
AT2G38120	135.6738167	63.53504847	1.0945	5.89E-08
AT1G45201	73.64224894	34.54836093	1.0919	0.00014015
AT3G23810	368.2112447	172.8360703	1.0911	1.03E-20
AT1G19600	92.83919197	43.59786338	1.0905	1.34E-05
AT5G44020	143.7226554	67.4942058	1.0905	2.37E-08
AT2G05940	158.2475714	74.37559829	1.0893	3.92E-09
AT2G38800	511.656354	240.7073387	1.0879	1.53E-28
AT5G04830	108.2430041	50.95058413	1.0871	2.08E-06
AT3G23600	260.6158483	122.6867442	1.0869	1.06E-14
AT1G64230	418.4008427	197.0623425	1.0862	2.37E-23
AT1G56110	258.9043136	122.1211503	1.0841	1.48E-14
AT2G35940	62.49414467	29.50514862	1.0828	0.0006087
AT3G54010	105.6988309	49.91366197	1.0825	3.08E-06
AT1G66760	97.92753832	46.28443442	1.0812	8.21E-06

AT5G64330	49.44947495	23.37788134	1.0808	0.0029807
AT3G56200	46.53524022	22.0110294	1.0801	0.0042758
AT2G05990	146.9144363	69.61518294	1.0775	2.14E-08
AT4G17340	161.8094138	76.68510673	1.0773	3.40E-09
AT5G01890	63.41929855	30.07074253	1.0766	0.00057765
AT3G13470	75.44629901	35.77381439	1.0765	0.00013452
AT3G18780	1299.656172	618.1941363	1.072	1.00E-70
AT5G06750	76.74151444	36.52793959	1.071	0.00012285
AT3G09980	91.45146115	43.69212903	1.0656	2.24E-05
AT4G39260	789.8038683	377.4396648	1.0652	1.18E-42
AT3G62130	52.78002892	25.26319435	1.063	0.0023075
AT5G14390	65.45463709	31.34332881	1.0623	0.00052114
AT1G48920	603.5241344	289.0184846	1.0622	1.59E-32
AT5G15350	178.2308952	85.35754658	1.0622	6.86E-10
AT2G06850	60.36629074	28.98668755	1.0584	0.00098585
AT5G20885	57.40579832	27.57270279	1.058	0.0013973

AT3G24080	174.2989912	83.84929617	1.0557	1.31E-09
AT5G37310	48.75560954	23.47214699	1.0546	0.0039594
AT1G04820	366.4071946	176.6066963	1.0529	1.19E-19
AT3G22850	146.6368902	70.84063639	1.0496	4.18E-08
AT1G58270	318.0216466	153.7001432	1.049	5.15E-17
AT4G26690	204.875327	99.12033156	1.0475	4.32E-11
AT3G54200	60.96764077	29.50514862	1.0471	0.001019
AT2G25520	210.9813426	102.1368324	1.0466	2.13E-11
AT1G06640	343.5096361	166.3317404	1.0463	2.75E-18
AT2G38080	49.72702111	24.08487372	1.0459	0.0037608
AT2G47180	52.1786789	25.31032717	1.0437	0.0028847
AT5G58750	68.4613872	33.22864182	1.0429	0.00044572
AT4G37870	460.0327674	223.4095918	1.042	3.10E-24
AT2G28570	82.5237262	40.11003431	1.0408	9.00E-05
AT1G28290	581.3204412	282.6084204	1.0405	1.76E-30
AT5G67470	58.14592143	28.32682799	1.0375	0.0015333

AT1G20620	502.2660421	244.7607617	1.0371	2.97E-26
AT5G56000	61.4764754	29.97647688	1.0362	0.0010632
AT4G26010	52.59499814	25.68738978	1.0339	0.0029715
AT2G18280	174.5765374	85.45181223	1.0307	2.50E-09
AT3G61200	59.62616764	29.2694845	1.0265	0.0014327
AT1G12140	49.63450572	24.36767067	1.0264	0.0044144
AT5G07580	61.24518693	30.07074253	1.0262	0.0011994
AT3G23560	50.18959805	24.65046762	1.0258	0.0041635
AT5G09870	169.5344487	83.28370227	1.0255	5.12E-09
AT3G01520	149.7361557	73.57434026	1.0251	5.10E-08
AT2G28890	59.07107531	29.03382037	1.0247	0.0015448
AT4G27652	206.540604	101.5712385	1.0239	7.54E-11
AT3G29360	181.0526145	89.08103978	1.0232	1.46E-09
AT4G16340	113.100062	55.71099948	1.0216	3.59E-06
AT3G24503	355.7216673	175.4755085	1.0195	2.84E-18
AT4G38920	291.0071533	143.5665858	1.0193	5.07E-15

AT5G48560	79.19317222	39.07311216	1.0192	0.00017119
AT5G46290	150.2449903	74.18706699	1.0181	5.65E-08
AT4G10480	189.8415764	93.84145513	1.0165	6.48E-10
AT2G41530	104.9587078	51.89324063	1.0162	9.91E-06
AT5G07340	59.9499715	29.6465471	1.0159	0.0015218
AT2G41220	339.9477936	168.1699206	1.0154	2.20E-17
AT3G21710	57.40579832	28.42109364	1.0142	0.0020413
AT5G45340	89.83244186	44.49338706	1.0136	5.62E-05
AT1G18660	60.7363523	30.11787535	1.0119	0.0014464
AT2G12400	130.8630165	64.94903323	1.0107	5.89E-07
AT5G60690	58.28469451	28.98668755	1.0077	0.0019643
AT1G75680	124.5257124	62.02679807	1.0055	1.32E-06
AT4G24830	79.56323378	39.63870606	1.0052	0.00019436
AT3G53420	738.0415087	367.7303028	1.0051	7.80E-37
AT4G18030	208.2058809	103.7864813	1.0044	1.17E-10
AT3G25860	129.7528318	64.71336911	1.0036	7.63E-07



AT5G52540	56.20309828	28.04403104	1.003	0.0025672
AT5G66730	53.75144049	107.5099745	-1.0001	0.0023915
AT3G49790	49.68076342	99.49739416	-1.002	0.0037103
AT1G56145	76.32519519	152.9931509	-1.0032	0.00016291
ATCG01130	123.6930739	248.2485907	-1.005	5.68E-07
AT1G04400	107.502881	216.0568711	-1.007	3.65E-06
AT1G07820	70.49672574	141.6812728	-1.007	0.00029635
AT4G01000	134.7949205	270.9194797	-1.0071	1.39E-07
AT3G19910	67.11991408	134.9884116	-1.008	0.00043219
AT2G30040	50.00456727	100.628582	-1.0089	0.0031957
AT4G21570	107.6879118	216.8581291	-1.0099	3.24E-06
AT4G03390	48.75560954	98.46047201	-1.014	0.0034218
AT3G07780	167.0827909	337.7538259	-1.0154	1.81E-09
AT1G53430	56.29561367	113.9671715	-1.0175	0.0013102
AT1G33980	57.91463296	117.8320632	-1.0247	0.00094217
AT3G07090	61.52273309	125.1847839	-1.0249	0.00060206

AT5G57560	403.8759268	822.0436057	-1.0253	7.16E-23
AT5G49520	69.47905647	141.7755384	-1.029	0.0002037
AT2G14170	203.0250192	414.5803311	-1.03	7.88E-12
AT5G18130	61.15267154	124.9491198	-1.0309	0.00055907
AT3G10985	184.013107	376.4498755	-1.0326	7.69E-11
AT2G26530	144.9253555	296.7954008	-1.0342	1.12E-08
AT4G21580	67.02739869	137.4864513	-1.0365	0.00023408
AT1G67310	69.47905647	142.8124606	-1.0395	0.00015946
AT4G39640	47.73794027	98.46047201	-1.0444	0.0024038
AT5G44070	67.6750064	139.6074285	-1.0447	0.00017877
AT3G59350	134.1935705	277.0938798	-1.0461	2.61E-08
AT5G42570	85.34544553	176.3238994	-1.0468	1.66E-05
AT2G48020	45.1475094	93.32299405	-1.0476	0.0031957
AT5G44290	100.7492577	208.4684862	-1.0491	1.99E-06
AT5G28770	57.26702524	118.6333212	-1.0507	0.00061985
AT5G21940	303.8205346	629.5060144	-1.051	1.81E-18

AT5G53310	48.43180568	100.3929178	-1.0516	0.0019554
AT2G38470	285.4099723	591.846887	-1.0522	2.02E-17
AT1G62380	156.0734597	323.8025097	-1.0529	9.66E-10
AT3G27260	80.1645838	166.6616702	-1.0559	2.56E-05
AT4G27320	81.32102615	169.2068427	-1.0571	2.11E-05
AT3G63310	58.88604453	122.9695412	-1.0623	0.00039358
AT1G22280	77.52789524	162.136919	-1.0644	2.89E-05
AT1G07360	53.47389433	112.0347257	-1.067	0.00075613
AT1G17290	124.7570009	261.6343131	-1.0684	3.44E-08
AT2G30490	690.9511761	1449.899971	-1.0693	1.40E-43
AT1G14900	51.20726732	107.4628416	-1.0694	0.00098901
AT2G18690	210.8425695	442.5772294	-1.0698	1.52E-13
AT4G25810	126.6073086	265.9234002	-1.0707	2.39E-08
AT5G65630	193.9585112	408.2173997	-1.0736	1.28E-12
AT1G27970	59.44113686	125.1376511	-1.074	0.00028589
AT1G32700	43.99106705	92.71026732	-1.0755	0.002432

AT1G67580	64.29819474	135.5540055	-1.076	0.00013746
AT1G19770	254.5560904	536.9842784	-1.0769	1.44E-16
AT5G08500	46.53524022	98.17767505	-1.0771	0.0016617
AT5G08630	38.76394762	81.86971751	-1.0786	0.0048809
AT1G11400	43.6210055	92.19180624	-1.0796	0.0024049
AT3G63070	65.26960631	137.9577796	-1.0797	0.00011014
AT5G27380	83.86519932	177.50222	-1.0817	7.18E-06
AT5G03730	92.70041889	196.6381471	-1.0849	1.79E-06
AT5G25280	84.18900318	178.586275	-1.0849	6.23E-06
AT5G16830	75.72384517	160.9585983	-1.0879	1.96E-05
AT5G01100	94.1344074	200.2202418	-1.0888	1.26E-06
AT1G25220	46.81278638	99.78019111	-1.0919	0.0012502
AT3G45980	124.2481662	265.1221422	-1.0934	1.18E-08
AT2G15970	222.7770546	476.937059	-1.0982	2.51E-15
AT2G31810	142.3349246	304.9022467	-1.0991	5.71E-10
AT4G24060	62.81794853	134.6584818	-1.1001	9.82E-05

AT5G65300	68.69267567	147.4786103	-1.1023	3.81E-05
AT1G64280	53.47389433	114.8626952	-1.103	0.00037737
AT5G39670	39.45781303	84.8390855	-1.1044	0.0030394
AT5G46730	38.39388607	82.62384271	-1.1057	0.0034976
AT4G36730	73.9197951	159.3089494	-1.1078	1.49E-05
AT5G47220	43.66726319	94.12425208	-1.108	0.0015247
AT4G19200	183.8280762	396.7641232	-1.1099	4.50E-13
AT5G18650	74.52114512	161.052864	-1.1118	1.21E-05
AT1G51760	70.58924113	152.6632211	-1.1128	2.16E-05
AT5G14120	123.8781047	268.138643	-1.1141	4.67E-09
AT3G52240	40.79928616	88.42118022	-1.1158	0.0020877
AT5G55100	47.36787871	102.7024263	-1.1165	0.00074656
AT1G08930	341.705586	741.7764042	-1.1182	1.85E-24
AT2G18440	152.8816789	332.0036213	-1.1188	3.55E-11
AT5G43830	170.9684372	371.6423273	-1.1202	1.73E-12
AT4G37120	90.66508035	197.3451394	-1.1221	6.69E-07

AT3G53110	101.7206692	221.5242788	-1.1229	1.11E-07
AT2G18750	126.699824	276.1040905	-1.1238	1.85E-09
AT4G14500	61.01389846	133.6215597	-1.1309	6.30E-05
AT1G25682	44.59241707	97.7063468	-1.1317	0.00088808
AT2G05520	34.69327054	76.02524717	-1.1318	0.0043692
AT2G46740	43.89855166	96.19809639	-1.1318	0.00098901
AT3G10720	43.80603627	96.00956509	-1.132	0.00099952
AT4G12040	130.2154088	285.3892571	-1.132	6.91E-10
AT3G19190	68.41512951	149.97665	-1.1324	1.81E-05
AT1G51680	145.6192209	319.4191569	-1.1333	4.99E-11
AT3G45970	122.7216623	269.3169636	-1.1339	2.17E-09
AT1G55810	87.05698021	191.265005	-1.1355	7.54E-07
AT3G05545	65.96347172	144.9334377	-1.1357	2.48E-05
AT5G20000	44.96247862	98.83753461	-1.1363	0.00077027
AT5G01830	57.22076755	125.8446435	-1.137	0.00010152
AT3G62240	41.12309002	90.49502453	-1.1379	0.0014029

AT4G21660	173.8364143	382.8599397	-1.1391	2.94E-13
AT1G11960	73.31844508	161.5241922	-1.1395	6.59E-06
AT4G20380	40.89180155	90.16509476	-1.1408	0.0013931
AT2G04400	49.68076342	109.5838188	-1.1413	0.00032194
AT3G03790	39.13400917	86.34733591	-1.1417	0.0018324
AT5G26760	34.64701285	76.6379739	-1.1453	0.0036549
AT2G19270	36.26603214	80.31433427	-1.147	0.0027262
AT4G17140	129.7990895	287.6516327	-1.148	3.21E-10
AT5G57580	71.79194118	159.4032151	-1.1508	6.17E-06
AT4G19860	109.5844772	243.3467769	-1.151	9.05E-09
AT5G62640	41.40063618	92.00327494	-1.152	0.001065
AT2G03470	39.41155534	87.66705502	-1.1534	0.0014615
AT5G35690	42.74210931	95.11404141	-1.154	0.00082298
AT3G08730	82.80127236	184.2893468	-1.1542	8.18E-07
AT4G27960	122.5366316	272.8519255	-1.1549	7.95E-10
AT4G02020	59.30236378	132.1133093	-1.1556	4.65E-05

AT3G17860	37.00615525	82.52957706	-1.1571	0.0020728
AT5G11260	86.91820713	193.9044432	-1.1576	3.58E-07
AT2G30600	88.76851489	198.1935303	-1.1588	2.49E-07
AT2G27830	58.70101376	131.1706527	-1.16	4.65E-05
AT3G45960	69.15525261	154.5485341	-1.1601	7.44E-06
AT5G58020	49.7732788	111.3277333	-1.1614	0.00021247
AT1G47380	42.55707853	95.25543989	-1.1624	0.00073346
AT5G46410	59.71868303	134.1871536	-1.168	3.18E-05
AT5G53550	47.59916718	106.9915134	-1.1685	0.00026976
AT3G10550	32.14909737	72.3488868	-1.1702	0.0040321
AT2G04865	31.22394349	70.27504249	-1.1704	0.0047486
AT2G16365	45.33254018	102.231098	-1.1732	0.00037023
AT1G61690	58.00714835	130.840723	-1.1735	3.78E-05
AT5G47120	127.763751	288.3114922	-1.1741	1.13E-10
AT5G50430	30.71510885	69.33238598	-1.1746	0.0049159
AT5G50200	55.37045979	125.0433855	-1.1752	5.86E-05



AT1G16670	35.66468212	80.5499984	-1.1754	0.0020036
AT5G12480	77.43537985	175.0513131	-1.1767	1.01E-06
AT3G54140	35.43339365	80.1729358	-1.178	0.0020073
AT1G08940	38.67143223	87.52565654	-1.1784	0.0011172
AT3G24500	42.32579006	95.82103379	-1.1788	0.00057556
AT1G78420	53.47389433	121.0842281	-1.1791	7.57E-05
AT3G07280	34.69327054	78.66468539	-1.1811	0.0021926
AT2G32240	189.7953187	430.4640933	-1.1814	6.69E-16
AT3G45830	46.53524022	105.5775286	-1.1819	0.00025138
AT2G38230	37.56124757	85.31041375	-1.1835	0.0012609
AT3G57550	78.73059528	179.7174628	-1.1907	5.00E-07
AT2G20560	34.2306936	78.14622431	-1.1909	0.0020722
AT5G45190	60.36629074	137.9577796	-1.1924	1.54E-05
AT5G63160	187.2974032	428.90871	-1.1953	3.44E-16
AT2G40000	866.2215789	1988.015437	-1.1985	2.26E-74
AT4G18710	149.0422902	342.1843115	-1.1991	4.51E-13

AT4G01120	86.08556864	198.2877959	-1.2038	7.69E-08
AT4G31860	61.4764754	141.7284056	-1.205	8.90E-06
AT1G28200	65.03831784	150.0709157	-1.2063	4.27E-06
AT4G39980	175.9642682	406.1435554	-1.2067	1.27E-15
AT3G02340	28.7722857	66.55154929	-1.2098	0.0045254
AT1G12610	48.38554798	111.94046	-1.2101	0.0001002
AT5G13750	72.76335275	168.3584519	-1.2103	8.24E-07
AT1G03290	42.64959392	98.79040178	-1.2118	0.00029601
AT1G55500	35.34087826	81.96398316	-1.2137	0.0011994
AT1G70590	48.98689801	113.6372417	-1.214	8.24E-05
AT5G51980	38.76394762	90.07082911	-1.2163	0.00058751
AT4G36780	90.89636882	211.4378542	-1.2179	1.70E-08
AT2G35710	49.31070186	114.8626952	-1.2199	6.76E-05
AT1G75380	59.30236378	138.3348422	-1.222	8.69E-06
AT3G53260	353.4550403	824.7301767	-1.2224	4.09E-32
AT1G62180	86.08556864	200.8801013	-1.2225	3.76E-08

AT5G50210	36.49732061	85.16901528	-1.2225	0.00083015
AT1G21110	59.85745611	139.7959598	-1.2237	7.39E-06
AT3G18290	78.31427604	182.9224949	-1.2239	1.73E-07
AT5G50960	46.95155947	109.7252172	-1.2247	9.81E-05
AT1G04985	34.92455901	81.68118621	-1.2258	0.0010771
AT4G02380	361.365106	847.2596672	-1.2293	2.52E-33
AT2G42680	107.1790771	251.689287	-1.2316	3.26E-10
AT4G15760	99.13023836	232.8832897	-1.2322	1.68E-09
AT5G11740	240.0774322	564.0856529	-1.2324	2.08E-22
AT2G06025	43.25094394	101.7597698	-1.2344	0.0001704
AT1G53580	99.82410377	234.9100012	-1.2346	1.31E-09
AT1G14860	42.41830545	99.92158959	-1.2361	0.00019536
AT3G06760	43.6210055	102.8909576	-1.238	0.00014657
AT1G53840	244.4719131	577.0000471	-1.2389	3.92E-23
AT1G79245	878.5723832	2073.891445	-1.2391	1.42E-82
AT1G22410	298.5471574	704.7771364	-1.2392	3.39E-28

AT1G08720	36.21977445	85.64034353	-1.2415	0.00064336
AT3G51130	38.62517454	91.62621234	-1.2462	0.00035859
AT3G03310	34.2306936	81.35125643	-1.2489	0.00086766
AT2G27550	42.18701698	100.2986522	-1.2494	0.00015852
AT1G05960	78.22176065	186.127527	-1.2506	6.72E-08
AT2G07783	28.54099723	67.91840123	-1.2508	0.0027963
AT2G38410	41.07683232	97.84774528	-1.2522	0.0001904
AT3G08690	33.53682819	79.89013885	-1.2523	0.00095368
AT3G06860	110.1395695	262.8126337	-1.2547	5.32E-11
AT2G44080	31.8715512	76.11951282	-1.256	0.0012831
AT4G30210	266.6756062	637.1415321	-1.2565	3.60E-26
AT5G04770	25.7192779	61.46120416	-1.2568	0.0047535
AT1G02170	38.99523609	93.2287284	-1.2575	0.00026964
AT4G17900	86.68691866	207.2901656	-1.2578	7.97E-09
AT3G46640	50.32837113	120.4715014	-1.2592	2.22E-05
AT1G09060	34.36946668	82.57670989	-1.2646	0.00065409

AT5G62460	34.55449746	83.04803814	-1.2651	0.00062419
AT4G30490	45.24002479	108.9239592	-1.2676	5.65E-05
AT2G38560	26.41314331	63.72357978	-1.2706	0.0034226
AT3G07310	25.16418557	60.84847743	-1.2738	0.0043675
AT5G10400	33.95314744	82.10538163	-1.2739	0.00061796
AT1G34220	28.54099723	69.09672186	-1.2756	0.0020073
AT1G63090	38.1163399	92.33320472	-1.2764	0.00023183
AT2G20900	46.99781716	113.9671715	-1.278	3.02E-05
AT3G53540	28.72602801	69.75658141	-1.28	0.001818
AT1G66480	40.89180155	99.30886286	-1.2801	0.00011538
AT4G32600	29.23486264	71.17056617	-1.2836	0.0015353
AT4G25170	70.95930268	172.8360703	-1.2843	1.02E-07
AT1G45145	177.814576	434.046188	-1.2875	9.41E-19
AT4G21680	27.47707027	67.1171432	-1.2885	0.0021474
AT1G15230	32.42664353	79.41881059	-1.2923	0.00065058
AT1G14040	88.53722642	217.6593871	-1.2977	9.45E-10

AT1G60940	73.27218739	180.3301895	-1.2993	3.47E-08
AT5G19340	24.05400091	59.24596137	-1.3004	0.0040968
AT1G73920	61.98531004	152.8988852	-1.3026	4.64E-07
AT4G21390	29.37363573	72.5374181	-1.3042	0.0011111
AT5G63320	62.03156773	153.1816822	-1.3042	4.36E-07
AT1G14000	64.94580246	160.3930044	-1.3043	2.15E-07
AT4G16130	32.79670509	81.02132665	-1.3048	0.00048783
AT4G33910	27.93964721	69.04958903	-1.3053	0.0015329
AT2G33770	74.84494898	185.043472	-1.3059	1.85E-08
AT5G52580	50.6059173	125.2790496	-1.3078	6.31E-06
AT1G30720	58.65475606	145.2633675	-1.3084	8.67E-07
AT4G11360	46.44272483	115.0512265	-1.3088	1.69E-05
AT1G25230	41.81695543	103.8336141	-1.3121	4.83E-05
AT3G50950	66.47230636	165.2005526	-1.3134	1.10E-07
AT3G54620	91.63649193	228.21714	-1.3164	1.87E-10
AT5G09390	33.81437436	84.22635877	-1.3166	0.00031162

AT1G19850	25.53424712	63.62931413	-1.3173	0.0023306
AT4G35750	337.0335589	840.849603	-1.319	1.27E-37
AT1G34300	33.07425125	82.52957706	-1.3192	0.0003589
AT3G06250	22.5737547	56.46512468	-1.3227	0.0045189
AT2G46500	144.9716132	363.1584188	-1.3248	1.43E-16
AT3G12500	22.15743545	55.52246818	-1.3253	0.0048711
AT5G12310	23.96148552	60.0472194	-1.3254	0.0030879
AT3G15630	142.3349246	357.4082141	-1.3283	2.18E-16
AT1G03230	50.97597885	128.0127535	-1.3284	3.35E-06
AT3G48520	107.0865617	269.0341667	-1.329	1.88E-12
AT5G23050	99.26901144	249.521177	-1.3297	1.36E-11
AT3G20060	25.53424712	64.19490803	-1.33	0.0019764
AT1G01340	36.17351675	91.20201691	-1.3341	0.0001267
AT1G09940	84.97538398	214.8314176	-1.3381	3.76E-10
AT5G54810	179.017276	452.8993181	-1.3391	5.77E-21
AT1G27290	71.00556038	179.9059941	-1.3412	1.27E-08

AT4G35860	26.73694716	67.82413557	-1.343	0.0012265
AT2G20670	143.8151708	364.8552005	-1.3431	4.75E-17
AT4G21980	65.63966787	166.5202717	-1.3431	4.88E-08
AT1G63800	42.18701698	107.085779	-1.3439	2.20E-05
AT4G30780	53.47389433	135.9310681	-1.346	1.08E-06
AT2G46140	47.13659024	119.9059075	-1.347	5.62E-06
AT1G75220	74.19734127	188.8140981	-1.3475	4.26E-09
AT1G73880	21.41731235	54.57981167	-1.3496	0.0044582
AT1G32230	401.5630421	1025.13895	-1.3521	6.72E-48
AT4G27585	30.02124344	76.73223955	-1.3538	0.00044166
AT3G24070	35.89597059	91.86187647	-1.3556	9.05E-05
AT1G56140	107.8266848	276.8582157	-1.3604	2.51E-13
AT5G54540	55.50923287	142.5296636	-1.3605	4.10E-07
AT4G18340	131.5106242	337.9423572	-1.3616	3.32E-16
AT2G15490	42.788367	110.1965455	-1.3648	1.17E-05
AT5G54500	279.1651836	718.9641168	-1.3648	3.20E-34



AT5G18490	33.67560127	86.86579699	-1.3671	0.0001325
AT4G04620	24.65535093	63.62931413	-1.3678	0.0015123
AT1G76650	175.6404643	453.8419746	-1.3696	7.31E-22
AT1G73260	276.0196604	713.4024434	-1.3699	3.45E-34
AT3G26020	33.67560127	87.05432829	-1.3702	0.00012508
AT1G62300	52.22493659	135.0826772	-1.371	7.33E-07
AT1G31930	55.37045979	143.519453	-1.3741	2.81E-07
AT1G23390	28.49473954	74.04566851	-1.3777	0.00045718
AT4G30280	167.7766563	436.5913605	-1.3797	2.57E-21
AT4G23100	283.6059223	738.3828408	-1.3805	7.28E-36
AT2G44410	29.00357417	75.55391892	-1.3813	0.00037631
AT3G62650	85.99305325	224.0223185	-1.3814	3.70E-11
AT1G71950	52.54874045	136.9208574	-1.3816	4.94E-07
AT4G27520	92.56164581	241.1786669	-1.3816	5.55E-12
AT3G51600	21.0009931	54.8154758	-1.3841	0.0033433
AT3G47160	37.70002066	98.46047201	-1.385	3.05E-05

AT5G51070	106.7165002	278.7435287	-1.3852	7.75E-14
AT1G22930	214.1268658	559.8908315	-1.3867	1.76E-27
AT1G02360	40.01290536	104.6820049	-1.3875	1.51E-05
AT4G33540	29.97498575	78.61755256	-1.3911	0.00024271
AT3G59220	34.2306936	89.92943063	-1.3935	6.93E-05
AT4G39670	22.38872392	58.86889877	-1.3947	0.0019975
AT3G30775	1105.928949	2908.472382	-1.395	1.59E-143
AT2G36310	92.00655348	241.979925	-1.3951	3.19E-12
AT2G31260	33.4905705	88.09125044	-1.3952	8.31E-05
AT4G37790	50.18959805	132.0190436	-1.3953	6.52E-07
AT1G29930	50.18959805	132.0661764	-1.3958	6.44E-07
AT2G39660	50.65217499	133.2916299	-1.3959	5.63E-07
AT3G59110	20.67718924	54.4384132	-1.3966	0.0031713
AT5G17760	34.73952824	91.62621234	-1.3992	5.35E-05
AT3G17000	44.12984013	116.4180784	-1.3995	3.43E-06
AT3G61070	33.76811666	89.17530543	-1.401	6.85E-05

AT5G27030	42.0482439	111.2806005	-1.4041	5.67E-06
AT4G33980	29.69743958	78.61755256	-1.4045	0.00020983
AT5G10980	185.7246416	491.8310318	-1.405	9.69E-25
AT5G12010	44.73119015	118.4919227	-1.4054	2.47E-06
AT5G17380	94.9207882	251.4536229	-1.4055	7.64E-13
AT4G36648	163.5672062	433.7162582	-1.4069	6.53E-22
AT1G12200	43.5747478	115.6168204	-1.4078	3.28E-06
AT2G23320	65.68592556	174.2971879	-1.4079	4.42E-09
AT4G14370	27.43081258	72.9144807	-1.4104	0.00037189
AT3G29160	69.20151031	184.0065499	-1.4109	1.38E-09
AT4G16790	19.84455075	52.78876431	-1.4115	0.003404
AT4G17030	19.75203536	52.55310018	-1.4118	0.0034827
AT2G35510	50.32837113	133.9514894	-1.4123	3.84E-07
AT2G02220	57.31328294	152.8046196	-1.4147	4.36E-08
AT3G62150	54.95414054	146.6302194	-1.4159	8.56E-08
AT4G05020	84.55906473	225.9076316	-1.4177	9.38E-12

AT1G11330	29.65118189	79.27741212	-1.4188	0.00016674
AT4G24590	31.27020118	83.75503052	-1.4214	9.81E-05
AT5G01750	132.8058396	355.8528308	-1.422	2.23E-18
AT1G17060	18.45681993	49.48946654	-1.423	0.0045584
AT5G16630	24.37780477	65.37322866	-1.4231	0.00076485
AT1G72360	37.88505143	101.7126369	-1.4248	1.23E-05
AT3G23150	20.72344694	55.66386665	-1.4255	0.0022289
AT1G30420	49.0331557	132.1133093	-1.4299	3.40E-07
AT2G47450	21.64860082	58.35043769	-1.4305	0.0015839
AT3G16800	26.59817408	71.7832929	-1.4323	0.00033857
AT2G42330	25.58050481	69.14385468	-1.4346	0.00044705
AT1G13195	19.84455075	53.73142082	-1.437	0.0025439
AT5G47450	46.21143636	125.5147137	-1.4415	5.93E-07
AT3G20660	34.2306936	93.08732992	-1.4433	2.56E-05
AT2G24100	41.95572851	114.10857	-1.4435	2.19E-06
AT5G07460	28.26345107	76.87363803	-1.4436	0.00016738

AT3G05580	44.22235552	120.3301029	-1.4441	1.04E-06
AT1G77220	27.75461643	75.64818457	-1.4466	0.00018706
AT1G15110	50.42088652	137.4864513	-1.4472	1.32E-07
AT4G16760	167.5453679	456.9527411	-1.4475	3.14E-24
AT1G53440	45.05499401	122.9695412	-1.4485	7.04E-07
AT5G13800	34.78578593	95.16117424	-1.4519	1.79E-05
AT2G41430	727.1246929	1994.142705	-1.4555	5.08E-106
AT1G03370	62.44788698	171.6106168	-1.4584	1.75E-09
AT4G15420	21.09350849	58.06764074	-1.4609	0.0012819
AT1G09950	17.99424299	49.58373219	-1.4623	0.0034183
AT1G55450	46.07266328	127.0700969	-1.4636	3.32E-07
AT3G05500	94.78201512	261.6814459	-1.4651	2.52E-14
AT1G18570	41.72444004	115.3340235	-1.4669	1.29E-06
AT1G73730	18.41056223	50.95058413	-1.4686	0.0027936
AT1G53190	26.27437022	72.7259494	-1.4688	0.00020931
AT5G63620	57.91463296	160.2987388	-1.4688	5.35E-09

AT5G56870	160.8380022	445.3580661	-1.4694	3.10E-24
AT5G60200	25.44173173	70.46357379	-1.4697	0.00027141
AT1G17170	113.5163812	314.8472729	-1.4718	2.76E-17
AT4G18140	21.50982774	59.6701568	-1.472	0.00096958
AT5G06560	40.75302846	113.1187807	-1.4729	1.53E-06
AT4G30390	24.00774322	66.78721342	-1.4761	0.00039663
AT2G23790	46.85904408	130.5107932	-1.4778	1.70E-07
AT1G32530	39.04149378	109.0653577	-1.4821	2.17E-06
AT2G30250	42.18701698	118.0677273	-1.4847	6.83E-07
AT1G50460	60.45880613	169.2068427	-1.4848	1.24E-09
AT1G30700	79.14691453	221.5242788	-1.4849	1.81E-12
AT3G12350	24.8866394	69.75658141	-1.487	0.00024935
AT1G34260	30.48382038	85.45181223	-1.4871	3.66E-05
AT5G11950	16.93031602	47.46275505	-1.4872	0.0037289
AT5G19230	107.8729425	302.4513398	-1.4874	6.47E-17
AT2G33700	33.4905705	93.93572078	-1.4879	1.29E-05

AT1G42990	73.36470277	205.8761808	-1.4886	1.14E-11
AT4G26260	30.25253191	85.07474963	-1.4917	3.63E-05
AT2G40970	31.22394349	88.09125044	-1.4963	2.36E-05
AT5G57910	36.08100136	101.8069026	-1.4965	4.28E-06
AT1G09070	540.0585781	1524.369835	-1.497	4.60E-85
AT5G47370	33.58308588	94.87837728	-1.4983	9.94E-06
AT1G27300	45.24002479	128.0127535	-1.5006	1.51E-07
AT1G30730	73.9197951	209.5054084	-1.503	4.74E-12
AT5G23340	24.23903169	68.76679208	-1.5044	0.00023729
AT3G14590	51.02223654	144.7920393	-1.5048	1.69E-08
AT1G20780	41.30812079	117.6906647	-1.5105	4.65E-07
AT4G05010	21.41731235	61.03700873	-1.5109	0.00058988
AT1G26270	198.214219	566.6308255	-1.5153	2.15E-32
AT4G29670	76.00139133	217.3294574	-1.5158	1.16E-12
AT3G63010	35.29462056	100.9585117	-1.5162	3.58E-06
AT5G48970	19.28945842	55.1925384	-1.5167	0.0011687

AT5G13200	53.42763664	153.2759478	-1.5205	4.05E-09
AT3G09440	615.9674541	1771.770035	-1.5243	5.63E-102
AT1G19400	51.11475193	147.1486805	-1.5255	7.99E-09
AT4G38470	342.0293899	985.0760483	-1.5261	7.73E-57
AT2G34500	24.42406246	70.36930814	-1.5266	0.00015619
AT4G08555	29.41989342	84.79195267	-1.5271	2.45E-05
AT4G14040	50.28211344	144.9805706	-1.5277	1.01E-08
AT3G13110	78.12924526	225.4363033	-1.5288	2.65E-13
AT1G29520	19.24320073	55.66386665	-1.5324	0.00097374
AT2G46260	81.55231462	236.0883218	-1.5335	5.58E-14
AT4G29950	98.89894989	286.5204449	-1.5346	6.64E-17
AT3G51500	19.93706614	57.78484379	-1.5352	0.00072392
AT4G28260	89.78618416	260.314594	-1.5357	2.04E-15
AT5G16110	267.2306986	775.5235071	-1.5371	2.49E-45
AT5G43620	30.80762424	89.55236803	-1.5394	1.14E-05
AT5G58787	24.05400091	69.94511271	-1.5399	0.00014395



AT3G25495	14.8024621	43.0794023	-1.5412	0.0045872
AT5G01600	58.83978684	171.3278199	-1.5419	2.32E-10
AT1G72680	30.85388194	89.92943063	-1.5433	1.03E-05
AT1G56220	152.3265865	444.3211439	-1.5444	2.71E-26
AT1G55020	127.763751	372.7263823	-1.5446	4.01E-22
AT1G61340	59.07107531	172.4118749	-1.5453	1.84E-10
AT2G35800	34.64701285	101.3355743	-1.5483	2.14E-06
AT2G46270	45.74885942	133.810091	-1.5484	2.93E-08
AT4G28300	91.91403809	269.1755652	-1.5502	3.55E-16
AT5G46180	38.62517454	113.2130463	-1.5514	4.21E-07
AT4G14680	24.8866394	72.96161353	-1.5518	8.67E-05
AT4G38810	40.75302846	119.5288449	-1.5524	1.80E-07
AT2G36320	347.6265708	1020.095737	-1.5531	1.26E-60
AT4G02880	40.66051308	119.6231106	-1.5568	1.65E-07
AT2G41250	26.04308175	76.8265052	-1.5607	4.71E-05
AT1G80120	15.31129673	45.24751227	-1.5632	0.0029974

AT5G14730	46.30395175	137.0622559	-1.5656	1.34E-08
AT4G00550	18.82688148	55.7581323	-1.5664	0.00073346
AT4G34710	336.570982	998.1789737	-1.5684	2.59E-60
AT1G01770	31.45523196	93.46439253	-1.5711	4.44E-06
AT4G36670	29.97498575	89.17530543	-1.5729	7.80E-06
AT2G42750	18.13301607	53.96708494	-1.5735	0.00088215
AT5G11070	78.6380799	234.0616103	-1.5736	1.81E-14
AT2G44790	466.0000099	1387.590376	-1.5742	2.60E-84
AT1G77770	20.39964308	60.75421178	-1.5744	0.00035243
AT5G46910	43.48223241	129.5681367	-1.5752	3.11E-08
AT2G26660	23.96148552	71.5947616	-1.5791	7.85E-05
AT5G57610	17.57792374	52.60023301	-1.5813	0.00099632
AT3G12740	94.87453051	283.9281395	-1.5814	1.31E-17
AT5G60270	15.86638906	47.55702071	-1.5837	0.0019322
AT5G27520	32.61167431	97.84774528	-1.5852	2.02E-06
AT4G11850	103.8485232	311.830772	-1.5863	2.10E-19

AT3G20340	34.55449746	103.7864813	-1.5867	8.63E-07
AT5G04340	122.9992085	370.1812097	-1.5896	4.81E-23
AT1G03740	71.51439501	216.2454024	-1.5964	1.05E-13
AT4G31780	27.15326641	82.10538163	-1.5964	1.54E-05
AT4G09150	80.71967613	244.2894334	-1.5976	1.86E-15
AT5G22920	126.4222779	383.2370023	-1.6	4.23E-24
AT5G55700	21.09350849	64.00637673	-1.6014	0.00017755
AT3G49845	15.21878134	46.28443442	-1.6047	0.0019971
AT5G66650	78.86936837	240.094612	-1.6061	2.47E-15
AT5G47230	78.82311067	240.1888776	-1.6075	2.33E-15
AT3G45730	50.97597885	155.3969249	-1.6081	4.25E-10
AT1G06760	151.4014326	462.2316175	-1.6102	2.65E-29
AT3G22530	15.31129673	46.75576268	-1.6105	0.001803
AT1G21000	57.54457141	175.8997039	-1.612	2.06E-11
AT5G11530	26.69068947	81.63405338	-1.6128	1.35E-05
AT1G69830	25.6730202	78.52328691	-1.6129	2.08E-05

AT1G01650	68.4613872	209.6468068	-1.6146	1.52E-13
AT4G35985	51.57732887	158.083496	-1.6159	2.43E-10
AT1G66500	58.65475606	179.9059941	-1.6169	1.02E-11
AT1G02400	60.13500227	184.525011	-1.6175	5.15E-12
AT4G20780	35.52590904	109.0182249	-1.6176	2.58E-07
AT2G39350	33.4905705	102.8438248	-1.6186	6.12E-07
AT4G00755	16.83780064	51.70470933	-1.6186	0.00085671
AT1G59740	28.12467799	86.58300004	-1.6222	5.96E-06
AT3G15070	22.15743545	68.248331	-1.623	8.04E-05
AT1G20440	1571.558898	4849.637791	-1.6257	0
AT3G10420	15.86638906	48.97100546	-1.626	0.0011913
AT1G54710	29.88247036	92.23893907	-1.6261	2.52E-06
AT2G46030	20.90847771	64.76050193	-1.631	0.0001214
AT4G05050	574.6593333	1782.799116	-1.6334	3.74E-115
AT2G25900	93.67183046	290.809532	-1.6344	5.04E-19
AT4G32480	127.2549163	395.7743339	-1.637	8.10E-26

AT5G04760	29.51240881	91.86187647	-1.6381	2.26E-06
AT1G62770	35.43339365	110.3850768	-1.6394	1.51E-07
AT5G64300	88.99980336	277.2824111	-1.6395	3.06E-18
AT1G76180	993.8928145	3096.720886	-1.6396	3.03E-201
AT5G54730	48.52432107	151.2021035	-1.6397	3.84E-10
AT2G22470	160.2829099	500.2678075	-1.6421	1.05E-32
AT4G17260	17.67043913	55.33393688	-1.6468	0.00040892
AT1G18270	292.9962342	919.5142883	-1.65	1.97E-60
AT1G23870	171.9398488	540.2364433	-1.6517	1.21E-35
AT2G02180	69.61782955	219.4504345	-1.6564	9.28E-15
AT4G21470	28.07842029	88.5625787	-1.6572	2.86E-06
AT4G13830	19.75203536	62.30959502	-1.6575	0.00013564
AT1G35670	68.09132565	215.2084802	-1.6602	1.55E-14
AT2G34910	12.25828892	38.7903152	-1.6619	0.0040824
AT1G19310	15.77387367	50.00792762	-1.6646	0.00077927
AT4G21410	81.22851076	257.5808901	-1.665	2.14E-17

AT2G30620	138.0792168	437.9582125	-1.6653	2.43E-29
AT3G54640	74.89120668	237.5965722	-1.6656	4.35E-16
AT5G08660	28.35596646	89.97656346	-1.6659	2.07E-06
AT5G55180	46.21143636	146.7244851	-1.6668	4.12E-10
AT5G62540	42.41830545	134.7056146	-1.6671	2.49E-09
AT5G56550	23.3601355	74.70552807	-1.6772	1.78E-05
AT5G07440	984.132441	3147.812869	-1.6774	2.46E-212
AT3G43230	45.61008634	145.9232271	-1.6778	3.67E-10
AT5G39660	27.93964721	89.41096955	-1.6781	1.93E-06
AT3G23250	90.80385343	290.8566648	-1.6795	7.14E-20
AT4G39675	27.80087413	89.1281726	-1.6808	1.94E-06
AT3G58750	63.88187549	205.02779	-1.6823	3.72E-14
AT2G41630	103.8947809	333.4647388	-1.6824	8.51E-23
AT1G66580	336.3396935	1080.425754	-1.6836	2.34E-73
AT5G13310	12.81338125	41.24122212	-1.6864	0.0024632
AT1G68440	262.2811253	844.4316977	-1.6869	1.58E-57

AT1G20450	553.7971132	1783.223312	-1.6871	1.98E-121
AT4G34310	26.13559714	84.2734916	-1.6891	3.64E-06
AT2G19800	187.7599802	605.5154063	-1.6893	2.11E-41
AT3G44300	239.5685975	772.6484048	-1.6894	9.05E-53
AT1G74750	12.53583509	40.43996409	-1.6897	0.0027272
AT5G06570	30.25253191	97.65921398	-1.6907	4.59E-07
AT5G53970	23.91522783	77.20356781	-1.6907	1.05E-05
AT5G62480	26.78320486	86.58300004	-1.6928	2.44E-06
AT4G34890	104.2185847	337.0939664	-1.6935	2.79E-23
AT2G33830	472.2910563	1528.611789	-1.6945	7.55E-105
AT5G17650	17.1153468	55.61673383	-1.7002	0.00025579
AT2G23450	61.4764754	199.9845777	-1.7018	4.56E-14
AT5G05730	54.53782129	177.5493528	-1.7029	1.48E-12
AT3G43430	51.71610195	168.4055847	-1.7033	6.20E-12
AT1G62320	11.74945429	38.31898695	-1.7055	0.0034226
AT4G27450	40.75302846	132.9145673	-1.7055	1.53E-09

AT4G39090	363.5854753	1188.12426	-1.7083	1.42E-82
AT5G12340	32.24161276	105.4361301	-1.7094	1.05E-07
AT1G32170	135.9976205	444.8867378	-1.7099	4.35E-31
AT3G20500	28.7722857	94.12425208	-1.7099	6.04E-07
AT4G30790	36.40480522	119.1989151	-1.7112	1.18E-08
AT2G02710	66.37979097	217.9421841	-1.7151	1.74E-15
AT1G02750	14.89497749	48.92387264	-1.7157	0.00063825
AT2G30870	712.7848077	2346.743371	-1.7191	1.20E-164
AT4G11280	272.5965911	897.4561261	-1.7191	4.97E-63
AT4G23730	15.08000826	49.67799784	-1.72	0.00055199
AT1G63440	49.91205189	165.624748	-1.7305	4.93E-12
AT3G49590	28.40222415	94.26565056	-1.7307	4.43E-07
AT4G34230	121.1951584	402.2315309	-1.7307	1.10E-28
AT3G18830	48.52432107	161.0999968	-1.7312	1.00E-11
AT1G08800	55.97180981	186.0332614	-1.7328	1.74E-13
AT5G02490	24.28528938	80.78566253	-1.734	3.64E-06



AT5G15960	22.24995084	74.04566851	-1.7346	1.06E-05
AT1G15800	14.10859669	47.03855963	-1.7373	0.00073557
AT1G15430	25.90430867	86.39446873	-1.7377	1.41E-06
AT4G33030	18.73436609	62.54525914	-1.7392	6.27E-05
AT3G05360	15.49632751	51.89324063	-1.7436	0.00032581
AT3G26460	42.09450159	140.9742804	-1.7437	1.97E-10
AT5G52660	11.33313504	37.98905717	-1.745	0.0029099
AT3G50930	104.773677	351.8936735	-1.7479	1.58E-25
AT4G08770	41.07683232	138.0049124	-1.7483	2.90E-10
AT5G13330	16.69902755	56.27659338	-1.7528	0.00015067
AT5G18400	55.13917132	185.9389957	-1.7537	9.89E-14
AT1G70290	117.7258314	397.4239827	-1.7552	5.57E-29
AT4G14630	42.92714008	145.0748362	-1.7568	7.57E-11
AT5G46050	10.73178502	36.29227546	-1.7578	0.0035484
AT2G03270	10.68552733	36.19800981	-1.7603	0.0035557
AT1G14870	270.9775718	918.5716318	-1.7612	4.72E-67

AT4G22212	325.6541662	1106.631605	-1.7648	5.19E-81
AT4G15260	16.00516214	54.48554602	-1.7673	0.00017907
AT4G32070	82.75501467	281.7128967	-1.7673	7.32E-21
AT2G29670	10.59301194	36.15087699	-1.7709	0.0033918
AT5G66170	60.50506383	206.5360404	-1.7713	1.88E-15
AT2G26670	52.96505969	180.9900491	-1.7728	1.33E-13
AT1G28260	13.78479283	47.1799581	-1.7751	0.00055802
AT2G34930	26.87572025	92.00327494	-1.7754	3.48E-07
AT3G49570	11.14810427	38.17758848	-1.7759	0.0023827
AT1G76590	24.42406246	83.84929617	-1.7795	1.27E-06
AT5G18470	31.31645888	107.6042401	-1.7807	2.43E-08
AT1G62570	65.54715248	225.8604987	-1.7848	4.69E-17
AT1G52240	26.18185484	90.44789171	-1.7885	3.77E-07
AT2G32140	15.68135829	54.20274907	-1.7893	0.00015769
AT1G78850	153.3442558	530.3856829	-1.7903	8.55E-40
AT3G51430	15.86638906	55.09827275	-1.796	0.00012902

AT4G32190	20.26087	70.65210509	-1.802	9.03E-06
AT3G13100	12.72086587	44.44625424	-1.8049	0.00071681
AT4G33150	139.7907514	488.9559294	-1.8064	3.18E-37
AT5G55970	22.15743545	77.53349758	-1.807	2.66E-06
AT4G21990	276.9448143	969.8521457	-1.8082	9.08E-74
AT5G40690	39.73535919	139.6545613	-1.8134	5.72E-11
AT3G50910	48.10800182	169.1125771	-1.8136	3.44E-13
AT5G59690	74.61366051	262.3884383	-1.8142	2.91E-20
AT3G14780	13.27595819	46.75576268	-1.8163	0.00044937
AT5G49665	13.41473128	47.41562223	-1.8215	0.00038813
AT3G02555	9.714115752	34.35982963	-1.8226	0.0035005
AT5G18670	142.0573784	502.4830503	-1.8226	8.95E-39
AT3G57750	10.36172347	36.66933807	-1.8233	0.0023685
AT4G03320	20.67718924	73.48007461	-1.8293	4.16E-06
AT5G23360	19.24320073	68.6253936	-1.8344	9.17E-06
AT5G57655	173.7901566	620.6921761	-1.8365	2.09E-48

AT5G05600	69.43279878	248.6727862	-1.8406	1.19E-19
AT2G15890	54.35279052	195.3655608	-1.8458	1.39E-15
AT5G13740	45.84137481	165.1534198	-1.8491	2.85E-13
AT1G36370	69.89537572	252.5376778	-1.8532	3.69E-20
AT3G46930	30.48382038	110.2908112	-1.8552	4.53E-09
AT3G54130	17.06908911	61.79113394	-1.856	2.45E-05
AT2G38290	22.66627009	82.15251446	-1.8578	6.52E-07
AT1G77680	27.52332796	99.78019111	-1.8581	2.88E-08
AT2G24500	66.84236791	242.4983861	-1.8591	1.82E-19
AT1G29760	29.46615111	107.368576	-1.8654	6.50E-09
AT5G17460	50.65217499	184.8078079	-1.8673	5.00E-15
AT4G28240	29.23486264	106.7558493	-1.8686	6.91E-09
AT5G47040	72.3932912	264.7922124	-1.8709	2.02E-21
AT3G10960	18.87313917	69.14385468	-1.8733	5.66E-06
AT1G21130	17.67043913	65.18469736	-1.8832	1.05E-05
AT3G03640	36.589836	135.1298101	-1.8848	2.98E-11

AT3G22890	317.2352658	1173.418818	-1.8871	2.51E-95
AT4G01700	19.05816995	70.51070662	-1.8874	3.80E-06
AT2G35170	8.280127236	30.63633643	-1.8875	0.0049686
AT5G54170	25.62676251	95.06690859	-1.8913	4.15E-08
AT3G02840	30.90013963	114.8155624	-1.8936	1.07E-09
AT1G17180	32.19535506	119.764509	-1.8953	4.15E-10
AT4G27020	28.44848184	106.4730523	-1.9041	4.17E-09
AT3G51730	120.7325815	452.8521853	-1.9072	1.75E-37
AT3G25900	19.79829306	74.28133264	-1.9076	1.53E-06
AT2G43400	34.46198207	129.3324726	-1.908	5.54E-11
AT1G69890	100.1479076	375.9785472	-1.9085	3.39E-31
AT3G06780	23.22136242	87.19572676	-1.9088	1.40E-07
AT1G56660	1009.62043	3791.930059	-1.9091	0
AT1G55920	76.60274136	287.840164	-1.9098	5.42E-24
AT1G09932	16.3752237	61.60260264	-1.9115	1.55E-05
AT3G61740	9.852888834	37.09353349	-1.9125	0.0013707

AT5G16650	15.45006981	58.25617204	-1.9148	2.77E-05
AT4G13300	8.742704177	32.99297769	-1.916	0.0028358
AT3G15850	15.31129673	57.83197662	-1.9173	2.94E-05
AT2G15480	61.33770232	231.9406332	-1.9189	1.54E-19
AT5G43190	26.96823563	102.1368324	-1.9212	7.16E-09
AT3G53180	75.16875284	284.7765303	-1.9216	5.83E-24
AT1G64065	8.141354154	30.91913338	-1.9252	0.003988
AT4G35110	12.4433197	47.27422375	-1.9257	0.00019423
AT1G25275	61.43021771	234.0144775	-1.9296	7.14E-20
AT1G15030	21.23228157	81.06845948	-1.9329	3.24E-07
AT5G54940	361.7814252	1387.920306	-1.9397	1.62E-117
AT2G38870	27.06075102	103.8807469	-1.9407	3.85E-09
AT1G08570	53.7051828	206.5831732	-1.9436	9.06E-18
AT2G36950	94.64324204	364.3838722	-1.9449	4.13E-31
AT3G48390	12.58209278	48.45254439	-1.9452	0.00013608
AT5G20910	15.95890445	61.50833699	-1.9464	1.15E-05

AT2G32560	17.48540835	67.39994015	-1.9466	3.72E-06
AT2G40113	8.280127236	32.09745401	-1.9547	0.0027936
AT5G65207	64.20567935	248.9555831	-1.9551	1.58E-21
AT4G36500	98.57514603	382.4828771	-1.9561	6.57E-33
AT5G19855	7.540004131	29.2694845	-1.9568	0.0047402
AT5G11920	13.04466972	50.66778717	-1.9576	8.24E-05
AT5G20250	1134.793751	4413.70629	-1.9596	0
AT5G13820	22.85130086	88.89250847	-1.9598	5.23E-08
AT4G14930	12.30454662	47.88695048	-1.9604	0.00013608
AT5G49360	100.7955153	392.4279033	-1.961	6.89E-34
AT4G12400	43.52849011	170.0081008	-1.9656	6.08E-15
AT1G76680	285.4099723	1115.681107	-1.9668	1.84E-96
AT3G09370	9.344054199	36.57507242	-1.9687	0.0011192
AT5G54640	22.52749701	88.18551609	-1.9689	5.32E-08
AT4G15120	9.991661916	39.16737781	-1.9709	0.00067592
AT3G47950	11.05558888	43.59786338	-1.9795	0.0002726

AT2G43140	20.49215847	81.02132665	-1.9832	1.80E-07
AT5G66850	30.25253191	119.764509	-1.9851	8.35E-11
AT5G47070	10.8705581	43.0794023	-1.9866	0.00028888
AT3G07565	19.4744892	77.48636476	-1.9924	3.24E-07
AT5G20010	204.2277193	812.7584391	-1.9926	1.14E-71
AT4G32870	31.64026273	125.986042	-1.9934	2.07E-11
AT5G01410	75.86261825	303.7710589	-2.0015	4.15E-27
AT5G27610	9.529084976	38.17758848	-2.0023	0.00068637
AT5G21170	68.13758334	273.4175194	-2.0046	1.73E-24
AT1G19380	58.88604453	236.5596501	-2.0062	2.92E-21
AT3G14075	20.58467386	82.81237401	-2.0083	9.38E-08
AT3G11170	24.05400091	96.85795595	-2.0096	5.43E-09
AT1G58200	19.98332383	80.7385297	-2.0145	1.32E-07
AT5G52190	8.002581072	32.38025097	-2.0166	0.0019869
AT5G16120	52.22493659	211.6263855	-2.0187	3.08E-19
AT1G57990	88.58348412	359.4820584	-2.0208	1.81E-32



AT4G37390	10.45423886	42.46667558	-2.0222	0.00026105
AT1G76070	32.47290123	132.3489734	-2.027	2.99E-12
AT2G40420	20.16835461	82.24678011	-2.0279	8.28E-08
AT1G64400	6.892396414	28.13829669	-2.0295	0.0043595
AT4G36040	196.1788805	803.614671	-2.0343	4.68E-73
AT4G22530	10.63926963	43.59786338	-2.0349	0.00019262
AT5G40590	13.36847358	54.8154758	-2.0357	1.99E-05
AT5G21990	59.71868303	245.1378243	-2.0373	1.62E-22
AT5G51440	20.76970463	85.45181223	-2.0406	3.69E-08
AT4G39780	14.84871979	61.13127439	-2.0416	5.27E-06
AT5G65280	25.16418557	103.59795	-2.0416	8.71E-10
AT5G13700	11.79571198	48.68820851	-2.0453	6.43E-05
AT5G10695	41.2618631	170.5265619	-2.0471	6.96E-16
AT4G20830	400.6378882	1656.624543	-2.0479	6.54E-152
AT2G45180	8.973992647	37.18779914	-2.051	0.00064156
AT3G15450	774.585087	3210.263863	-2.0512	2.34E-295

AT3G28580	15.17252365	62.92232175	-2.0521	3.31E-06
AT4G34350	127.9025241	531.0455424	-2.0538	5.50E-49
AT5G51130	9.80663114	40.76989387	-2.0557	0.00030066
AT4G03430	88.7222572	369.2385532	-2.0572	3.26E-34
AT1G32870	10.9168158	45.43604357	-2.0573	0.00011496
AT3G14050	53.33512125	222.7025994	-2.062	7.71E-21
AT2G29440	16.88405833	70.51070662	-2.0622	6.22E-07
AT5G53050	9.251538811	38.7903152	-2.0679	0.00041999
AT2G27150	23.54516627	98.93180026	-2.071	1.47E-09
AT5G17850	25.90430867	108.9239592	-2.0721	1.78E-10
AT5G46710	10.63926963	44.77618401	-2.0733	0.0001186
AT5G54490	21.32479696	90.07082911	-2.0785	8.57E-09
AT3G57520	727.4947544	3076.689436	-2.0804	6.39E-289
AT5G66050	59.9037138	253.8573969	-2.0833	4.63E-24
AT5G35735	152.0952981	644.8713155	-2.084	9.93E-61
AT2G41880	16.328966	69.28525316	-2.0851	6.37E-07

AT3G03150	35.61842442	151.2492363	-2.0862	1.62E-14
AT1G32200	13.73853513	58.35043769	-2.0865	6.33E-06
AT5G56580	6.522334862	27.71410126	-2.0872	0.0037583
AT4G18250	9.667858058	41.24122212	-2.0928	0.0002189
AT5G11520	100.1941653	428.107452	-2.0952	1.10E-40
AT1G67810	22.66627009	96.85795595	-2.0953	1.61E-09
ATMG00020	14.10859669	60.33001636	-2.0963	3.82E-06
AT1G58420	6.337304086	27.14850736	-2.0989	0.0040515
AT3G17790	27.38455488	117.3136021	-2.0989	1.88E-11
AT2G19810	12.4433197	53.30722539	-2.099	1.66E-05
AT4G05120	9.714115752	41.61828472	-2.0991	0.00019492
AT1G33590	50.09708266	214.7842848	-2.1001	1.22E-20
AT2G32150	279.257699	1197.833622	-2.1008	5.10E-114
AT2G37430	7.817550296	33.5585716	-2.1019	0.0010468
AT5G41080	516.8372157	2223.491032	-2.105	3.58E-212
AT5G52750	9.529084976	41.09982364	-2.1087	0.00020556

AT5G47740	28.49473954	123.1109396	-2.1112	4.34E-12
AT4G38060	35.29462056	152.9931509	-2.1159	5.65E-15
AT5G03030	15.45006981	66.97574472	-2.116	7.63E-07
AT4G04610	121.1951584	525.483869	-2.1163	1.34E-50
AT5G64310	119.1598199	517.7540857	-2.1194	5.78E-50
AT4G36790	22.15743545	96.38662769	-2.121	1.25E-09
AT4G39660	223.8872392	976.5921398	-2.125	1.59E-94
AT3G11580	7.077427191	30.91913338	-2.1272	0.0016248
AT3G06420	29.92872805	131.2649184	-2.1329	4.81E-13
AT3G62770	32.05658198	140.7386163	-2.1343	5.79E-14
AT1G02660	45.51757095	200.173109	-2.1368	9.75E-20
AT3G10020	104.2185847	458.5552571	-2.1375	8.09E-45
AT1G62975	27.10700872	119.3403136	-2.1383	6.10E-12
AT3G55840	12.07325815	53.54288952	-2.1489	1.08E-05
AT5G62520	56.75819061	251.7835526	-2.1493	6.27E-25
AT2G16900	57.68334449	256.1197726	-2.1506	2.24E-25

AT2G15695	25.58050481	113.5901089	-2.1507	1.77E-11
AT5G24490	35.75719751	158.9318868	-2.1521	6.68E-16
AT5G42940	52.78002892	235.0513997	-2.1549	2.19E-23
AT5G28610	41.12309002	183.6766201	-2.1591	2.11E-18
AT1G10370	41.53940926	186.1746598	-2.1641	1.04E-18
AT5G64410	27.29203949	123.6765335	-2.18	1.09E-12
AT1G78895	18.08675838	82.10538163	-2.1825	1.33E-08
AT2G46980	5.643438675	25.64025695	-2.1838	0.0040725
AT5G60800	10.68552733	48.64107569	-2.1865	2.41E-05
AT1G29640	11.51816582	52.55310018	-2.1899	9.82E-06
AT1G22770	27.29203949	125.2790496	-2.1986	5.42E-13
AT5G58650	11.56442351	53.11869409	-2.1995	8.04E-06
AT5G23510	28.44848184	130.6993245	-2.1998	1.53E-13
AT5G42380	84.23526088	389.5056681	-2.2091	6.75E-40
AT5G47860	12.25828892	56.70078881	-2.2096	3.27E-06
AT2G33150	200.480846	928.233861	-2.211	5.43E-95

AT3G17690	10.63926963	49.34806807	-2.2136	1.71E-05
AT2G20562	6.753623332	31.39046164	-2.2166	0.0009889
AT3G22370	50.05082497	232.9304225	-2.2184	4.02E-24
AT3G19210	6.984911802	32.75731357	-2.2295	0.00068465
AT3G53620	65.63966787	308.1544117	-2.231	4.77E-32
AT4G01010	5.13460404	24.13200654	-2.2326	0.0048284
AT1G02610	6.106015615	28.70389059	-2.2329	0.0016938
AT3G61060	62.95672161	296.0884084	-2.2336	7.38E-31
AT3G01650	33.30553972	156.7637769	-2.2348	1.62E-16
AT1G29400	84.00397241	396.7641232	-2.2398	2.07E-41
AT5G67340	10.31546577	49.01813829	-2.2485	1.44E-05
AT5G23350	26.87572025	127.871355	-2.2503	1.15E-13
AT2G43500	5.13460404	24.46193632	-2.2522	0.0041688
AT5G44260	5.180861734	24.69760045	-2.2531	0.0039449
AT4G20070	35.10958979	167.4157954	-2.2535	8.28E-18
AT3G47420	43.38971702	207.5729625	-2.2582	4.65E-22

AT2G35390	17.53166605	83.99069465	-2.2603	3.40E-09
AT3G04320	13.59976205	65.32609584	-2.2641	2.72E-07
AT5G22290	14.15485438	68.0597997	-2.2655	1.41E-07
AT5G06720	5.273377122	25.35746	-2.2656	0.0032225
AT2G41190	8.927734953	43.03226948	-2.2691	5.12E-05
AT5G63790	163.9372677	791.1716051	-2.2708	5.62E-84
AT5G38200	15.26503904	73.71573873	-2.2717	3.47E-08
AT1G01470	212.1377849	1024.761887	-2.2722	7.77E-109
AT1G72330	10.40798116	50.29072457	-2.2726	9.02E-06
AT2G29500	9.760373446	47.1799581	-2.2732	1.87E-05
AT1G16850	5.689696369	27.66696844	-2.2817	0.0017801
AT1G58180	43.01965547	210.5894633	-2.2914	8.07E-23
AT4G03960	11.33313504	55.569601	-2.2937	2.17E-06
AT1G60730	51.53107118	252.9147404	-2.2951	2.17E-27
AT2G42270	61.75402157	303.2525978	-2.2959	8.81E-33
AT1G14540	16.51399678	81.39838925	-2.3013	3.90E-09

AT5G15870	31.59400504	156.0096517	-2.3039	4.07E-17
AT3G12580	275.2332796	1359.970541	-2.3048	3.51E-147
AT1G19530	148.4871979	733.7638239	-2.305	1.74E-79
AT3G26910	30.85388194	152.7574867	-2.3077	8.31E-17
AT5G04040	54.90788284	272.2863316	-2.31	1.01E-29
AT5G28630	48.47806337	241.2729326	-2.3153	1.92E-26
AT5G28050	179.2485645	897.3147276	-2.3237	3.07E-98
AT5G02160	7.493746437	37.51772892	-2.3238	0.00013951
AT3G13520	104.1260693	522.7501652	-2.3278	2.07E-57
AT2G32120	7.678777213	38.6017839	-2.3297	0.00010421
AT4G39230	14.66368902	73.71573873	-2.3297	1.88E-08
AT3G13080	50.05082497	252.4434122	-2.3345	5.75E-28
AT3G27650	4.764542488	24.03774089	-2.3349	0.0034697
AT1G60750	11.7031966	59.15169572	-2.3375	6.33E-07
AT3G53650	7.493746437	38.03619	-2.3436	0.00011111
AT5G45350	50.83720577	258.8534764	-2.3482	6.89E-29



AT5G02970	29.28112034	149.2696577	-2.3499	7.99E-17
AT5G42900	10.31546577	52.60023301	-2.3503	2.91E-06
AT3G54150	11.88822737	60.80134461	-2.3546	3.64E-07
AT4G38940	16.19019292	82.85950684	-2.3555	1.44E-09
AT3G16330	8.187611848	42.56094123	-2.378	2.98E-05
AT1G33600	7.308715661	38.08332282	-2.3815	9.00E-05
AT1G61360	32.33412815	168.6412488	-2.3828	2.60E-19
AT2G38400	96.81735366	505.9237465	-2.3856	2.12E-57
AT4G19870	5.088346346	26.63004628	-2.3878	0.0015316
AT5G66700	6.984911802	36.66933807	-2.3923	0.0001213
AT3G47040	4.255707853	22.43522483	-2.3983	0.0042235
AT5G01810	157.5999636	832.6013585	-2.4014	3.18E-95
AT3G19970	19.19694303	102.0896996	-2.4109	5.05E-12
AT2G30140	11.51816582	61.31980569	-2.4124	1.95E-07
AT3G23920	75.53881439	402.3257966	-2.4131	2.31E-46
AT5G02230	41.49315157	221.6656773	-2.4174	9.70E-26

AT2G17880	11.79571198	63.06372022	-2.4185	1.19E-07
AT5G50450	4.949573264	26.53578063	-2.4226	0.0013849
AT1G30040	5.504665593	29.74081275	-2.4337	0.00058695
AT2G20500	5.273377122	28.70389059	-2.4444	0.00073254
AT3G45300	117.8646045	641.9962131	-2.4454	3.53E-75
AT5G54080	40.42922461	220.2988253	-2.446	5.80E-26
AT1G77000	12.21203123	66.55154929	-2.4462	3.72E-08
AT5G51260	4.857057876	26.72431193	-2.46	0.0011534
AT3G18950	4.90331557	27.05424171	-2.464	0.0010427
AT2G47550	24.74786632	136.8265918	-2.467	1.92E-16
AT5G18630	35.57216673	197.4865379	-2.4729	1.22E-23
AT5G25250	13.27595819	73.71573873	-2.4732	4.24E-09
AT1G55510	29.74369728	165.6718809	-2.4777	6.11E-20
AT3G60450	58.97855992	329.5055815	-2.482	2.03E-39
AT1G70670	36.03474367	202.1526876	-2.488	2.24E-24
AT5G65110	93.20925352	523.881353	-2.4907	7.76E-63

AT1G80380	290.5908341	1634.849178	-2.4921	5.95E-196
AT3G50980	5.458407899	30.77773491	-2.4953	0.00034643
AT5G15120	4.995830958	28.18542952	-2.4962	0.00068784
AT1G11210	22.75878548	129.0968084	-2.504	7.96E-16
AT1G72900	30.94639732	175.6640398	-2.505	2.08E-21
AT5G61560	5.180861734	29.4580158	-2.5074	0.00046865
AT1G68290	3.978161689	22.62375613	-2.5077	0.002878
AT1G13480	9.020250341	51.56331085	-2.5151	1.16E-06
AT3G13650	20.39964308	116.6537426	-2.5156	2.01E-14
AT1G65390	4.440738629	25.45172565	-2.5189	0.001311
AT4G18950	118.0033775	679.8910046	-2.5265	5.48E-83
AT3G51890	24.79412401	143.2837888	-2.5308	9.41E-18
AT4G18510	11.28687735	65.37322866	-2.5341	2.31E-08
AT3G03990	74.33611435	431.07682	-2.5358	6.75E-53
AT2G38820	13.2297005	76.77937238	-2.5369	9.59E-10
AT1G12950	18.73436609	108.971092	-2.5402	1.18E-13

AT1G13990	17.71669682	103.1266217	-2.5412	5.91E-13
AT5G38940	13.92356591	81.16272513	-2.5433	2.66E-10
AT5G02810	18.08675838	105.4361301	-2.5434	3.01E-13
AT1G03905	17.62418144	102.9852232	-2.5468	5.68E-13
AT2G38250	10.50049655	61.41407134	-2.5481	6.07E-08
AT4G23550	11.24061966	65.79742409	-2.5493	1.79E-08
AT1G71695	15.08000826	88.27978175	-2.5494	3.39E-11
AT1G20630	30.66885116	179.8117284	-2.5516	2.06E-22
AT2G17280	12.85963895	75.45965327	-2.5529	1.18E-09
AT4G19720	8.233869542	48.40541156	-2.5555	2.11E-06
AT2G22880	30.94639732	182.074104	-2.5567	9.47E-23
AT1G76600	54.4453059	322.624189	-2.567	2.96E-40
AT3G02550	14.38614285	85.49894505	-2.5712	5.71E-11
AT1G04310	15.35755443	91.43768104	-2.5738	1.02E-11
AT1G74360	13.50724666	80.50286557	-2.5753	2.25E-10
AT5G02320	7.447488743	44.39912141	-2.5757	5.67E-06

AT4G05320	1031.824124	6167.094523	-2.5794	0
AT5G02580	6.707365638	40.25143279	-2.5852	1.71E-05
AT5G08790	159.7278176	961.9809639	-2.5904	4.33E-121
AT1G79360	3.931903995	23.80207677	-2.5978	0.0015846
AT1G05060	7.632519519	46.28443442	-2.6003	2.86E-06
AT1G27760	114.9503697	698.3670721	-2.603	1.87E-88
AT5G40780	34.60075515	210.7308618	-2.6065	6.83E-27
AT1G28190	9.667858058	58.9160316	-2.6074	7.58E-08
AT1G61820	110.3246003	672.8682137	-2.6086	1.93E-85
AT5G16370	114.7190813	700.5351821	-2.6104	4.90E-89
AT3G13450	26.78320486	164.3521617	-2.6174	3.70E-21
AT1G28760	6.661107944	41.47688624	-2.6385	9.06E-06
AT4G37030	4.6720271	29.12808602	-2.6403	0.00030574
AT2G02230	25.02541248	156.3395814	-2.6432	2.22E-20
AT3G44860	3.376811666	21.11550572	-2.6446	0.0029318
AT3G08970	4.255707853	26.77144476	-2.6532	0.00057479

AT3G05390	6.152273309	38.74318238	-2.6548	1.82E-05
AT4G15530	53.38137894	338.6022168	-2.6652	3.29E-44
AT1G76700	35.75719751	226.9916865	-2.6663	9.60E-30
AT1G25400	150.0137018	956.9377516	-2.6733	3.74E-125
AT4G12120	11.42565043	73.29154331	-2.6814	6.06E-10
AT3G55940	8.372642624	53.87281929	-2.6858	1.81E-07
AT1G67070	6.892396414	44.35198859	-2.6859	3.00E-06
AT3G03110	19.89080844	129.4267382	-2.702	2.22E-17
AT3G29240	46.76652869	305.2793093	-2.7066	1.29E-40
AT1G68410	74.24359896	487.6362103	-2.7155	5.04E-65
AT3G19930	93.48679969	614.6120416	-2.7168	5.70E-82
AT5G54710	3.053007808	20.07858357	-2.7174	0.0032555
AT5G63130	8.048838766	53.02442844	-2.7198	1.84E-07
AT1G54100	221.7593853	1462.107373	-2.721	3.68E-195
AT2G23120	347.5803131	2295.321458	-2.7233	0
AT1G17300	7.956323378	52.55310018	-2.7236	2.06E-07

AT5G16970	21.27853927	140.6443506	-2.7246	4.83E-19
AT5G50720	7.910065684	52.60023301	-2.7333	1.91E-07
AT4G03510	27.75461643	184.7135423	-2.7345	5.46E-25
AT5G52760	3.746873219	25.02753022	-2.7398	0.00071483
AT1G53920	7.123684885	47.65128636	-2.7418	7.96E-07
AT5G51830	42.14075929	283.0797486	-2.7479	2.35E-38
AT1G67480	217.272389	1462.39017	-2.7508	1.13E-197
AT4G15130	10.63926963	72.44315245	-2.7675	3.46E-10
AT1G80920	161.7168984	1107.338597	-2.7756	2.83E-151
AT4G30430	3.238038584	22.19956071	-2.7773	0.0014868
AT1G30755	23.54516627	161.4770594	-2.7778	2.71E-22
AT4G02520	164.2148139	1126.663055	-2.7784	4.31E-154
AT5G27760	47.22910563	329.7883785	-2.8038	1.09E-45
AT3G17770	50.92972116	357.7381439	-2.8123	1.03E-49
AT1G68390	3.376811666	23.75494394	-2.8145	0.00083439
AT1G15010	32.98173586	232.8361569	-2.8196	1.56E-32

AT3G06500	75.72384517	535.0046997	-2.8207	1.57E-74
AT3G13430	27.61584335	195.5069593	-2.8237	2.03E-27
AT2G45170	48.75560954	347.3217895	-2.8326	1.15E-48
AT1G64660	160.9767753	1150.417999	-2.8372	3.83E-161
AT1G09460	32.33412815	231.8935004	-2.8423	1.07E-32
AT1G03090	101.7206692	729.8989323	-2.8431	1.43E-102
AT2G47190	2.914234726	20.92697442	-2.8442	0.0018287
AT5G57660	7.540004131	54.15561624	-2.8445	5.56E-08
AT5G64510	2.821719337	20.45564617	-2.8579	0.0020413
AT3G59480	4.949573264	35.96234569	-2.8611	1.59E-05
AT1G23060	2.636688561	19.23019271	-2.8666	0.002924
AT5G04250	8.696446483	63.53504847	-2.8691	2.34E-09
AT3G12920	31.03891271	227.0859522	-2.8711	2.16E-32
AT5G62350	98.29759987	719.1997809	-2.8712	3.40E-102
AT5G03545	122.8141777	903.7719247	-2.8795	8.36E-129
AT3G60930	4.810800182	35.44388461	-2.8812	1.71E-05



AT4G01026	4.301965547	32.14458684	-2.9015	4.49E-05
AT1G80820	31.96406659	239.3876196	-2.9048	1.42E-34
AT1G19540	3.885646301	29.12808602	-2.9062	0.00011515
AT2G38210	2.590430867	19.46585684	-2.9097	0.0024533
AT1G11260	128.3188433	970.040677	-2.9183	2.84E-140
AT5G25450	4.394480935	33.22864182	-2.9187	2.95E-05
AT3G45060	4.163192465	31.53186011	-2.921	5.06E-05
AT5G52710	5.458407899	41.47688624	-2.9258	1.99E-06
AT1G14640	3.006750114	23.04795156	-2.9384	0.0007306
AT1G78830	65.22334862	502.6244488	-2.946	1.65E-73
AT1G80670	23.86897013	184.2893468	-2.9488	3.96E-27
AT4G38420	5.412150205	42.46667558	-2.9721	1.13E-06
AT2G26380	3.099265502	24.41480349	-2.9778	0.0004186
AT2G45760	2.914234726	23.04795156	-2.9834	0.0006459
AT5G64250	92.14532656	728.8148773	-2.9836	5.32E-108
AT1G04100	5.550923287	44.11632446	-2.9905	5.94E-07

AT2G17840	315.1999273	2505.580992	-2.9908	0
AT3G19250	2.451657785	19.79578662	-3.0134	0.0017384
AT4G29190	9.436569587	76.21377847	-3.0137	1.03E-11
AT2G16660	27.89338952	225.3891705	-3.0144	6.85E-34
AT3G43190	8.002581072	65.09043171	-3.0239	4.17E-10
AT4G36430	24.51657785	200.5030387	-3.0318	2.25E-30
AT4G24380	36.12725906	296.1355412	-3.0351	8.83E-45
AT4G34030	59.07107531	487.6362103	-3.0453	6.84E-74
AT2G35980	13.46098897	113.3544448	-3.074	1.42E-17
AT2G34790	11.88822737	101.0056446	-3.0868	9.11E-16
AT2G40880	4.718284794	40.15716714	-3.0893	1.39E-06
AT5G08350	57.68334449	494.3762043	-3.0994	2.72E-76
AT5G16010	21.60234312	185.5148003	-3.1023	8.37E-29
AT5G15970	80.76593382	697.0944859	-3.1095	6.71E-108
AT5G33355	71.79194118	619.7966524	-3.1099	5.79E-96
AT1G07040	21.0472508	183.0638934	-3.1206	1.34E-28

AT5G48180	114.7190813	998.650302	-3.1219	4.38E-155
AT5G20830	35.29462056	307.8244819	-3.1246	5.97E-48
AT1G67850	5.597180981	49.30093524	-3.1388	4.54E-08
AT5G48430	23.08258933	203.4724067	-3.14	6.05E-32
AT3G50970	231.4735011	2048.251188	-3.1455	0
AT4G01870	93.30176891	826.2855599	-3.1467	1.94E-129
AT5G57500	2.174111621	19.27732554	-3.1484	0.0015316
AT1G68500	4.995830958	44.49338706	-3.1548	2.25E-07
AT4G15610	172.0786219	1532.665212	-3.1549	1.26E-240
AT5G49700	6.291046392	56.04092926	-3.1551	3.81E-09
AT2G16060	7.031169497	62.92232175	-3.1617	3.18E-10
AT3G15356	5.689696369	51.2805139	-3.172	1.87E-08
AT5G65690	122.7216623	1108.846847	-3.1756	3.41E-175
AT3G49160	6.753623332	61.08414156	-3.1771	5.49E-10
AT2G30400	5.088346346	46.56723137	-3.194	8.85E-08
AT4G24960	31.82529351	291.3751259	-3.1946	2.01E-46

AT1G30760	17.30037758	161.0999968	-3.2191	5.47E-26
AT2G29460	4.949573264	46.6143642	-3.2354	7.03E-08
AT1G49570	5.227119428	49.48946654	-3.243	2.40E-08
AT4G02890	124.9882893	1190.198104	-3.2513	1.67E-192
AT3G02800	11.98074276	114.8155624	-3.2605	7.30E-19
AT1G22400	12.25828892	117.6435319	-3.2626	2.48E-19
AT4G18280	31.96406659	306.7875597	-3.2627	6.85E-50
AT2G31945	4.440738629	42.65520688	-3.2639	2.56E-07
AT5G06730	3.885646301	37.37633045	-3.2659	1.74E-06
AT1G21400	45.05499401	437.2040873	-3.2785	2.23E-71
AT3G14770	22.52749701	219.2147704	-3.2826	6.27E-36
AT4G36880	2.035338538	19.93718509	-3.2921	0.00089755
AT1G14890	15.03375057	149.175392	-3.3107	9.53E-25
AT1G05340	33.53682819	335.5385832	-3.3227	1.65E-55
AT5G39720	2.497915479	25.02753022	-3.3247	0.00013037
AT5G13210	11.00933119	110.9978035	-3.3337	1.24E-18

AT2G32020	14.84871979	149.8352516	-3.335	5.03E-25
AT4G24230	88.67599951	903.3005965	-3.3486	2.77E-150
AT2G30395	2.867977031	29.22235167	-3.349	2.59E-05
AT5G52300	1.572761598	16.16655907	-3.3616	0.0030877
AT1G32970	1.757792374	18.09900491	-3.3641	0.0015202
AT5G10625	23.26762011	240.3302761	-3.3686	2.48E-40
AT3G06850	112.8687735	1172.146232	-3.3764	1.74E-196
AT5G42830	5.458407899	56.70078881	-3.3768	7.70E-10
AT3G11020	3.376811666	35.11395483	-3.3783	2.61E-06
AT2G03760	11.51816582	119.8116419	-3.3788	2.49E-20
AT1G23550	2.96049242	30.82486773	-3.3802	1.30E-05
AT1G07150	11.14810427	116.6066097	-3.3868	7.70E-20
AT1G75860	27.15326641	284.3523349	-3.3885	6.21E-48
AT4G33070	10.130435	106.1902554	-3.3899	4.11E-18
AT2G05580	3.006750114	31.53186011	-3.3905	9.67E-06
AT3G23550	2.821719337	29.6465471	-3.3932	1.93E-05

AT4G28290	2.914234726	30.77773491	-3.4007	1.24E-05
AT3G15500	14.61743132	154.9255967	-3.4058	2.29E-26
AT4G35480	15.5888429	165.2948182	-3.4065	4.01E-28
AT3G08860	15.5888429	165.624748	-3.4093	3.38E-28
AT5G20150	63.37304086	674.2821984	-3.4114	3.43E-114
AT4G17090	8.973992647	96.29236204	-3.4236	1.32E-16
AT5G41610	4.255707853	46.14303595	-3.4386	3.13E-08
AT3G19240	156.8598405	1704.322962	-3.4417	6.52E-291
AT1G15040	124.3406816	1361.573057	-3.4529	5.23E-233
AT5G40880	9.482827282	104.5406065	-3.4626	3.55E-18
AT1G21790	4.810800182	53.40149104	-3.4725	1.59E-09
AT5G28145	2.867977031	31.86178989	-3.4737	6.51E-06
AT5G13080	16.60651217	184.6192766	-3.4747	6.27E-32
AT1G06570	34.46198207	383.1427367	-3.4748	4.96E-66
AT5G28646	2.174111621	24.36767067	-3.4865	0.00011156
AT3G06490	3.885646301	43.92779316	-3.4989	5.58E-08

AT3G48450	16.00516214	181.0371819	-3.4997	1.64E-31
AT2G18700	65.13083323	740.9280134	-3.5079	1.18E-128
AT1G74010	5.458407899	62.21532937	-3.5107	4.08E-11
AT1G14260	2.220369315	25.35746	-3.5135	7.17E-05
AT3G09350	27.89338952	319.7019539	-3.5187	1.01E-55
AT1G26380	1.989080844	22.81228743	-3.5196	0.00018779
AT5G04120	1.572761598	18.05187208	-3.5208	0.0011722
AT4G36410	9.945404222	114.5798983	-3.5262	3.32E-20
AT5G40010	2.867977031	33.22864182	-3.5343	3.17E-06
AT3G22120	1.71153468	19.84291944	-3.5353	0.00057479
AT1G66050	1.433988516	16.68502015	-3.5404	0.0019125
AT1G10070	52.36370967	612.5853301	-3.5483	1.88E-107
AT4G28085	15.03375057	176.418165	-3.5527	4.07E-31
AT2G46240	18.22553146	214.1244252	-3.5544	1.00E-37
AT3G20670	20.53841616	245.5148869	-3.5794	1.78E-43
AT5G39610	5.828469451	69.94511271	-3.585	1.16E-12

AT3G01970	7.447488743	89.8822978	-3.5932	3.49E-16
AT2G47950	1.989080844	24.08487372	-3.598	9.65E-05
AT3G26740	6.059757921	73.81000439	-3.6065	2.13E-13
AT5G64530	2.682946255	32.85157922	-3.6141	2.86E-06
AT3G09405	3.238038584	39.92150301	-3.624	1.65E-07
AT3G16150	33.53682819	417.1255037	-3.6367	1.00E-74
AT1G76410	9.57534267	121.131361	-3.6611	5.14E-22
AT2G43120	62.49414467	802.3420847	-3.6824	4.41E-145
AT4G27310	1.387730822	17.81620796	-3.6824	0.0009857
AT5G61390	3.238038584	41.99534732	-3.697	5.44E-08
AT5G55090	1.94282315	25.35746	-3.7062	4.57E-05
AT5G67080	3.053007808	39.92150301	-3.7089	1.22E-07
AT2G04040	2.821719337	36.90500219	-3.7092	4.13E-07
AT1G43670	29.14234726	381.9644161	-3.7122	1.31E-69
AT1G19250	1.48024621	19.46585684	-3.717	0.000481
AT5G57510	6.38356178	84.22635877	-3.7218	1.27E-15



AT3G19390	166.5739563	2252.383454	-3.7572	0
AT3G05630	3.700615525	50.24359175	-3.7631	1.39E-09
AT5G43450	2.266627009	30.87200056	-3.7677	4.14E-06
AT1G67980	6.984911802	95.58536966	-3.7745	7.22E-18
AT5G57220	9.57534267	131.8776451	-3.7837	1.46E-24
AT3G17110	29.88247036	415.0516594	-3.7959	5.98E-77
AT5G45630	2.729203949	37.94192435	-3.7972	2.03E-07
AT2G24850	2.035338538	28.32682799	-3.7988	1.10E-05
AT3G29670	1.387730822	19.51298967	-3.8136	0.00040085
AT1G10160	9.344054199	132.3961062	-3.8247	7.39E-25
AT5G48570	14.29362746	204.3679304	-3.8377	2.63E-38
AT5G52050	50.51340191	723.7245321	-3.8407	2.70E-135
AT3G02040	29.88247036	429.4743039	-3.8452	2.05E-80
AT1G74310	50.37462883	725.4684467	-3.8481	8.41E-136
AT5G65600	1.24895774	18.38180186	-3.8795	0.00058182
AT4G36010	13.73853513	203.6138052	-3.8895	1.53E-38

AT5G54165	1.341473128	20.17284922	-3.9105	0.00026142
AT4G22710	27.10700872	409.3957204	-3.9168	1.06E-77
AT5G07010	15.40381212	233.5431493	-3.9223	1.91E-44
AT1G43160	35.38713595	536.7486143	-3.9229	5.63E-102
AT5G14470	6.059757921	92.23893907	-3.928	9.06E-18
AT4G36820	2.174111621	33.13437617	-3.9298	1.04E-06
AT2G43510	1.896565456	28.93955472	-3.9316	6.25E-06
AT5G40000	6.753623332	103.7864813	-3.9418	5.30E-20
AT1G77380	10.130435	156.999441	-3.954	3.84E-30
AT1G05560	1.063926963	16.54362167	-3.9588	0.0011243
AT4G24040	2.312884703	36.10374416	-3.9644	2.68E-07
AT2G18193	15.68135829	247.6829968	-3.9814	1.28E-47
AT5G52640	54.21401743	866.207063	-3.998	1.35E-166
AT1G59860	2.220369315	35.63241591	-4.0043	2.94E-07
AT4G22690	29.92872805	484.6668423	-4.0174	1.17E-93
AT1G56060	1.063926963	17.39201253	-4.031	0.00071729

AT2G41100	158.4788598	2596.31168	−4.0341	0
AT2G34390	1.989080844	32.61591509	−4.0354	1.00E−06
AT4G20730	3.284296278	54.01421777	−4.0397	8.72E−11
AT2G32210	4.579511712	76.02524717	−4.0532	4.88E−15
AT3G03660	1.619019292	27.00710888	−4.0601	1.09E−05
AT1G08050	11.33313504	189.6153561	−4.0645	4.93E−37
AT1G08090	3.053007808	51.6575765	−4.0807	2.12E−10
AT5G38430	1.24895774	21.20977138	−4.0859	0.00012877
AT1G22985	6.152273309	105.7189271	−4.103	6.39E−21
AT2G24130	4.718284794	81.58692056	−4.112	2.97E−16
AT1G54050	2.544173173	44.21059011	−4.1191	4.94E−09
AT1G08630	13.46098897	234.0144775	−4.1197	4.72E−46
AT4G28350	4.440738629	77.39209911	−4.1233	1.82E−15
AT5G38410	3.700615525	64.94903323	−4.1335	4.57E−13
AT4G35770	42.0019862	743.2375218	−4.1453	1.69E−146
AT4G16690	0	14.84683996	−4.1563	0.0018603

AT1G63180	19.19694303	349.3013681	−4.1855	2.29E−69
AT5G66400	0	15.22390256	−4.1925	0.0015247
AT5G49620	2.544173173	46.52009855	−4.1926	1.42E−09
AT1G69680	9.390311893	174.1557894	−4.2131	8.02E−35
AT4G33666	2.405400091	44.72905119	−4.2169	2.93E−09
AT1G72800	4.255707853	82.10538163	−4.27	9.76E−17
AT5G20790	1.94282315	37.61199457	−4.275	6.24E−08
AT1G70130	1.989080844	39.02597933	−4.2943	3.17E−08
AT1G15330	6.291046392	124.4306587	−4.3059	2.68E−25
AT4G01360	17.34663527	345.3422108	−4.3153	7.47E−70
AT1G47510	1.341473128	26.91284323	−4.3264	7.08E−06
AT3G46080	3.238038584	65.18469736	−4.3313	1.78E−13
AT5G24600	2.174111621	43.88066033	−4.3351	3.10E−09
AT2G38823	0	13.15005825	−4.3438	0.0033196
AT3G16530	6.799881026	141.3042102	−4.3772	5.94E−29
AT1G02920	26.69068947	560.3150269	−4.3918	2.24E−114

AT2G32190	8.141354154	171.5163512	−4.3969	3.69E−35
AT3G22740	3.793130913	79.93727167	−4.3974	1.42E−16
AT2G22860	37.51498988	797.5345365	−4.41	4.78E−163
AT2G44578	2.867977031	61.13127439	−4.4138	8.49E−13
AT2G01340	3.700615525	79.46594342	−4.4245	1.55E−16
AT2G18550	1.295215434	27.85549974	−4.4267	3.92E−06
AT3G03670	1.48024621	32.00318836	−4.4343	5.75E−07
AT1G21120	15.49632751	335.9156458	−4.4381	4.99E−69
AT4G35180	1.665276986	36.10374416	−4.4383	8.71E−08
AT5G06980	1.572761598	35.53815026	−4.498	1.01E−07
AT5G46330	0	17.95760643	−4.5132	0.00032877
AT4G18170	1.665276986	39.49730758	−4.5679	1.38E−08
AT5G20230	47.41413641	1125.861797	−4.5696	1.84E−234
AT1G63040	1.48024621	35.49101743	−4.5835	8.81E−08
AT1G05680	7.308715661	176.6538291	−4.5952	4.93E−37
AT3G60140	25.62676251	620.7864417	−4.5984	9.62E−130

AT2G17660	6.013500227	145.9232271	−4.6009	1.17E−30
AT5G14740	0	20.31424769	−4.6087	0.00010152
AT1G10170	66.42604866	1628.533379	−4.6157	0
AT1G26240	2.266627009	55.61673383	−4.6169	6.08E−12
AT3G12510	3.42306936	84.8390855	−4.6314	5.01E−18
AT5G59080	4.163192465	103.315153	−4.6332	7.04E−22
AT5G02020	5.550923287	137.8635139	−4.6344	4.41E−29
AT1G74000	1.850307762	46.33156725	−4.6462	4.69E−10
AT5G43370	0	19.93718509	−4.6641	0.00011487
AT5G43360	0	13.4328552	−4.7477	0.0022365
AT4G34380	1.804050068	48.64107569	−4.7529	1.24E−10
AT1G01480	1.341473128	36.24514264	−4.7559	4.66E−08
AT3G47380	2.220369315	60.56568048	−4.7696	3.78E−13
AT3G46090	1.295215434	36.99926784	−4.8362	2.90E−08
AT5G52670	0	27.05424171	−4.87	3.25E−06
AT5G39580	28.44848184	837.3146411	−4.8793	2.40E−179

AT1G71520	1.48024621	44.16345729	−4.8989	8.24E−10
AT5G52310	39.18026687	1179.734617	−4.9122	2.15E−253
AT1G56250	3.469327054	107.2271775	−4.9499	2.64E−23
AT4G16680	8.09509646	253.8573969	−4.9708	7.55E−55
AT5G01380	5.597180981	175.8997039	−4.9739	4.35E−38
AT3G14210	0	13.2443239	−4.9915	0.0021693
AT3G28210	16.23645061	517.1413589	−4.9933	8.96E−112
AT5G16980	0	11.9246048	−5.01	0.0040473
AT2G02990	0	19.79578662	−5.0408	9.29E−05
AT3G16120	0	29.97647688	−5.092	6.39E−07
AT3G47340	76.37145289	2625.298368	−5.1033	0
AT5G62360	3.284296278	113.6372417	−5.1127	6.31E−25
Novel00001	1.804050068	62.73379044	−5.1199	6.22E−14
AT4G37370	4.116934771	144.0850469	−5.1292	1.52E−31
AT1G16030	8.002581072	285.3892571	−5.1563	2.36E−62
AT2G39400	4.440738629	159.4032151	−5.1657	6.19E−35

AT4G12735	0	23.75494394	-5.197	1.25E-05
AT3G28600	0	23.09508439	-5.2632	1.66E-05
AT5G52400	0	12.53733152	-5.275	0.0027639
AT2G10940	0	19.46585684	-5.2829	9.64E-05
AT2G36770	0	19.74865379	-5.3037	8.35E-05
AT4G37710	0	22.05816223	-5.3124	2.68E-05
AT1G59660	11.93448507	475.2874101	-5.3156	1.50E-104
AT5G38420	1.202700045	48.21688026	-5.3252	6.43E-11
AT1G73010	9.112765729	371.7837258	-5.3504	6.44E-82
AT5G26340	17.67043913	749.7889845	-5.4071	2.58E-165
AT1G63530	4.348223241	188.9554965	-5.4415	7.72E-42
AT3G60420	0	22.67088896	-5.4775	1.86E-05
AT5G26000	0	22.34095918	-5.4816	2.18E-05
AT1G73220	0	17.10921558	-5.5309	0.0002811
AT1G77120	12.81338125	611.548408	-5.5767	1.45E-135
AT1G64160	2.544173173	131.5005825	-5.6917	2.22E-29



AT5G39120	0	26.48864781	-5.702	2.65E-06
AT5G01760	0	12.44306587	-5.7495	0.0026768
AT2G41730	0	51.6575765	-5.8031	8.63E-12
AT2G40340	3.238038584	183.4880888	-5.8244	6.21E-41
AT1G02930	9.945404222	575.2561325	-5.854	4.92E-128
AT1G80160	4.070677077	240.9901356	-5.8876	1.05E-53
AT3G01500	0	38.83744803	-5.9062	5.37E-09
AT1G29395	0	27.85549974	-5.9121	1.30E-06
AT1G66090	1.341473128	83.66076487	-5.9627	7.43E-19
AT2G43620	0	41.00555799	-5.9846	1.82E-09
AT5G06760	0	46.94429398	-5.987	9.18E-11
AT2G36800	0	15.36530104	-6.0538	0.00064022
AT4G06746	2.405400091	161.0057311	-6.0647	6.08E-36
AT1G14550	0	21.77536528	-6.0714	2.71E-05
AT5G22300	1.017669269	69.09672186	-6.0853	1.26E-15
AT1G07400	1.94282315	136.4495292	-6.1341	1.73E-30

AT1G69490	6.059757921	429.2857726	-6.1465	1.89E-95
AT3G12320	0	16.4022232	-6.1481	0.00038711
AT5G49690	0	49.77226349	-6.2641	2.39E-11
AT1G69930	0	68.0597997	-6.275	2.33E-15
AT4G21920	1.110184657	86.63013286	-6.286	1.93E-19
AT2G31345	0	14.75257431	-6.3171	0.00088894
AT5G19890	3.145523196	254.4229909	-6.3378	2.00E-56
AT1G80660	0	42.7023397	-6.4162	9.04E-10
AT5G61890	0	17.20348123	-6.5388	0.0002811
AT3G02480	0	35.58528308	-6.5874	3.45E-08
AT2G11810	0	39.16737781	-6.7257	6.43E-09
AT2G02250	0	14.89397279	-6.7459	0.00091905
AT4G34210	0	20.07858357	-6.7617	7.56E-05
AT3G55970	0	36.19800981	-6.8046	3.00E-08
AT4G33467	0	48.59394286	-6.8669	7.14E-11
AT2G15780	0	28.56249212	-6.9483	1.36E-06

AT1G21529	0	17.39201253	-6.9696	0.00030015
AT3G09922	0	58.77463312	-6.9894	5.63E-13
AT3G05950	0	23.51927981	-6.9899	1.62E-05
AT3G63380	10.03791961	1293.984585	-7.0102	4.85E-279
AT3G60120	0	12.01887045	-7.0214	0.0039499
AT2G47520	0	48.45254439	-7.0327	9.36E-11
AT2G04050	0	50.9034513	-7.1039	3.15E-11
AT3G43250	0	38.27185413	-7.1074	1.44E-08
AT3G19615	0	39.45017476	-7.1512	8.52E-09
AT4G25580	0	101.7597698	-7.2958	8.76E-22
AT1G69920	0	134.3756849	-7.3344	1.39E-28
AT3G22910	4.024419383	652.3654347	-7.3408	7.73E-138
AT1G34047	0	150.3065798	-7.344	6.56E-32
AT1G17710	0	22.57662331	-7.346	3.19E-05
AT5G39150	0	15.36530104	-7.3758	0.00095012
AT1G48710	0	15.88376212	-7.4236	0.00076404

AT3G27690	0	96.00956509	-7.4343	2.22E-20
AT1G71000	0	17.48627818	-7.5623	0.00039346
AT5G64750	2.590430867	529.537292	-7.6754	3.57E-109
AT4G32950	0	152.8046196	-7.7828	2.25E-31
AT1G06225	0	20.83270877	-7.8149	0.00010244
AT1G75600	0	84.6505542	-7.8376	1.85E-17
AT3G19920	0	34.6897594	-7.9656	2.30E-07
AT2G38240	2.729203949	682.4361772	-7.9661	3.43E-137
AT2G36255	0	103.2208874	-8.1238	1.14E-20
AT4G36600	0	13.76278498	-8.2169	0.0030729
AT1G52890	0	16.92068427	-8.5149	0.0009857
AT4G33720	0	159.167551	-8.5786	2.89E-30
AT5G12030	0	215.0199489	-8.5975	1.08E-40
AT2G42560	0	92.71026732	-8.6469	1.21E-17
AT4G33930	0	116.7480082	-8.7165	5.89E-22
AT1G11925	0	27.43130431	-9.2119	2.88E-05

AT2G02010	0	537.1256769	-9.2554	7.69E-94
AT4G25200	0	29.69367993	-9.3262	1.42E-05
AT5G55150	0	37.4705961	-9.6618	1.30E-06
AT5G24640	0	37.6591274	-9.6691	1.23E-06
AT3G46230	0	682.0591146	-10.147	1.96E-105
AT5G12020	0	109.253889	-10.206	5.54E-17
<u>AT1G05675</u>	<u>0</u>	<u>79.65447472</u>	<u>-10.75</u>	<u>1.55E-11</u>
<u>AT1G53540</u>	<u>0</u>	<u>257.628023</u>	<u>-11.443</u>	<u>1.46E-32</u>