

Figure S1. Morphological observation by longitudinal cut of buds (A) and statistical analysis of CIE-LAB color in leaves (B) in the four different treatment groups.

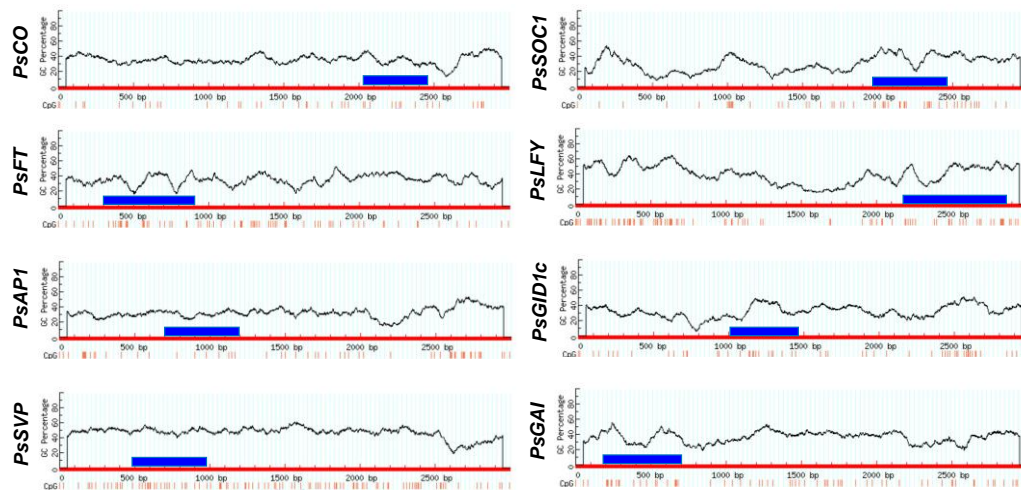


Figure S2. The position of CG contents (blue lines) in the promoters of flowering-pathway genes used for DNA methylation determination by McrBC-PCR. The graph is based on MethPrimer (<http://www.urogene.org/methprimer>). A 3 kb of promoter region upon ATG code of each gene was used for analysis and CpG (red vertical short lines) represents the predication of CG-rich sites.

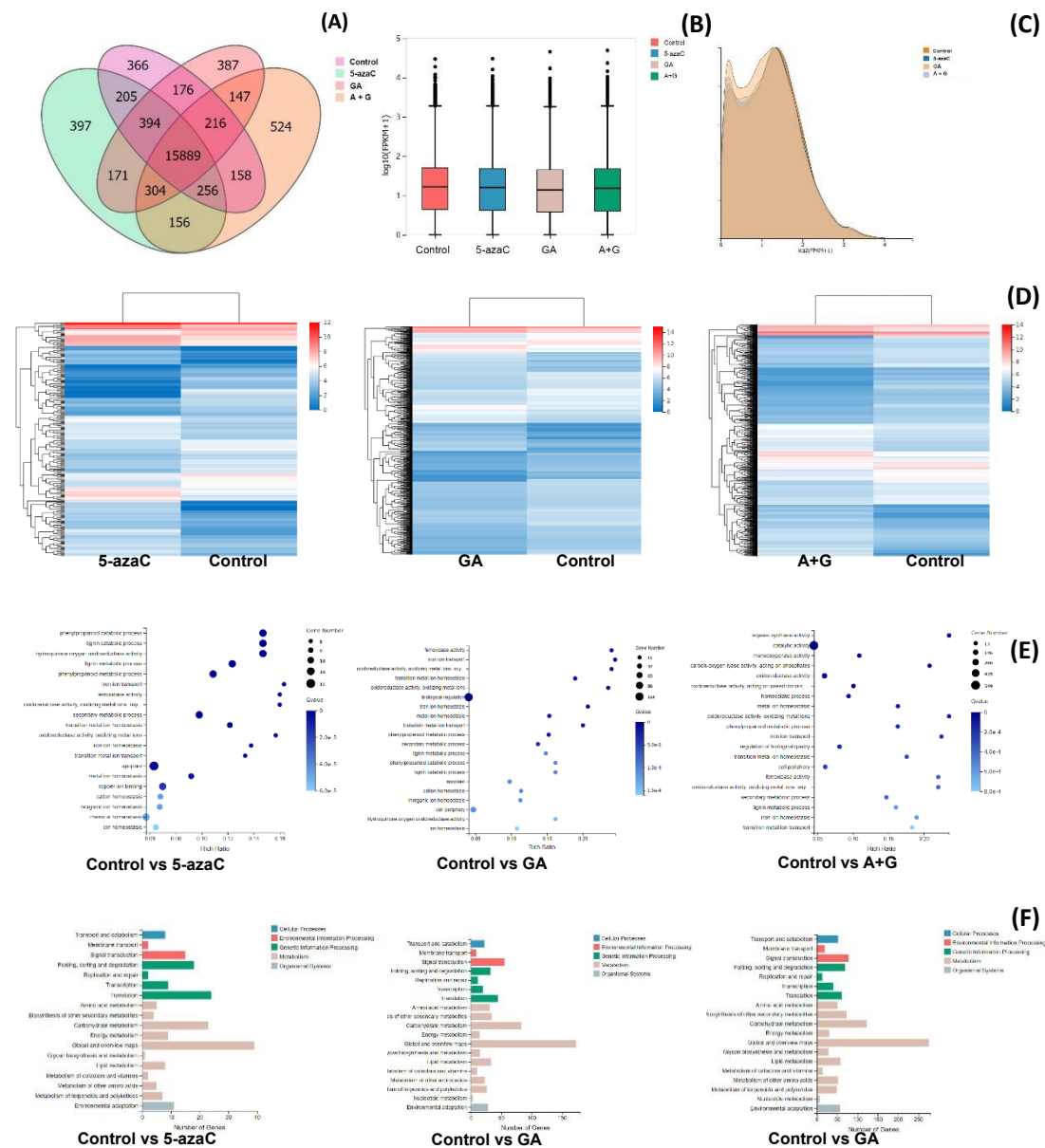


Figure S3. Bioinformatics analysis of transcriptome data. (A) Venn diagram of gene number and their distribution in different groups. (B) Box plot comparison of gene expression. (C) Density map of gene expression. X- and Y-axis is log₂ FPKM+1 and gene density, respectively. (D) Cluster heat map of differential gene expression. The horizontal axis represents log₂ FPKM+1 of the sample, and the vertical axis represents genes. (E) Bubble map of DEGs GO enrichment. X-axis represents enrichment ratio, equal to term candidate gene number / term gene number, and Y-axis represents GO Term. The bubble size represents the number of differential genes annotated to a certain GO

Term and the color represents enriched Qvalue. (F) KEGG pathway classification of DEGs. The X-axis represents the number of genes annotated to a KEGG pathway class, and the Y-axis represents the KEGG pathway class.

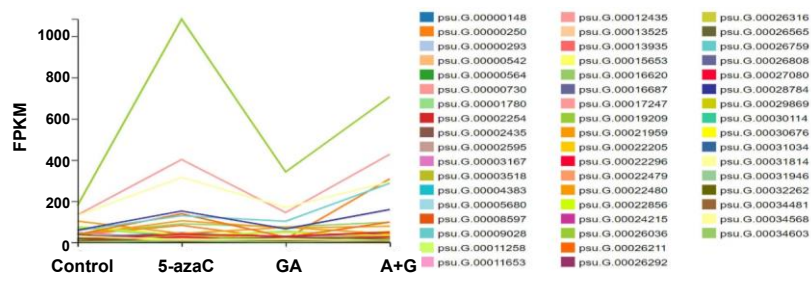


Figure S4. Expression pattern of methylation-closer DEGs in four different treatment groups.

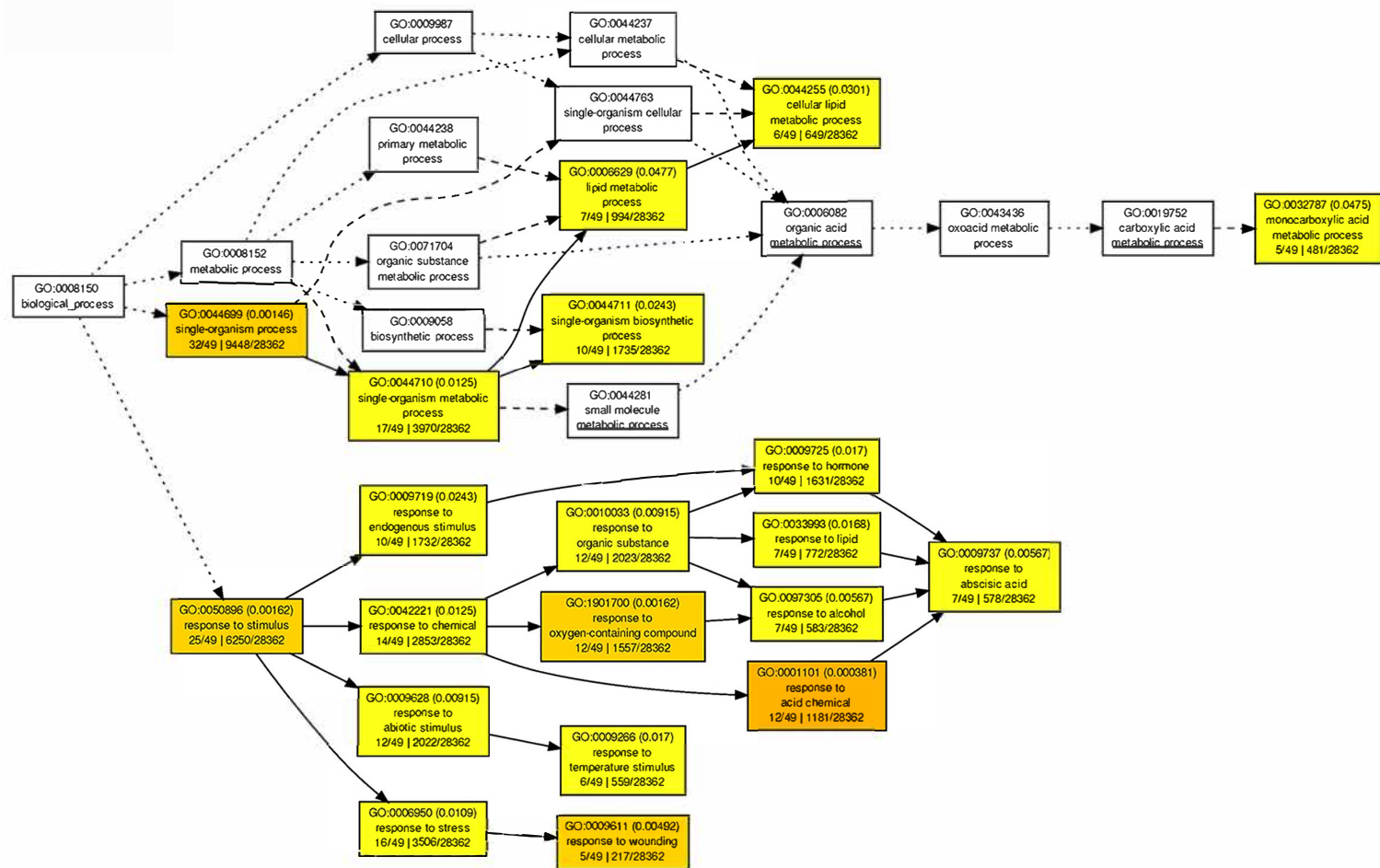


Figure S5. GO enrichment path tree of 52 methylation-closer DEGs in biological process compared to Arabidopsis.

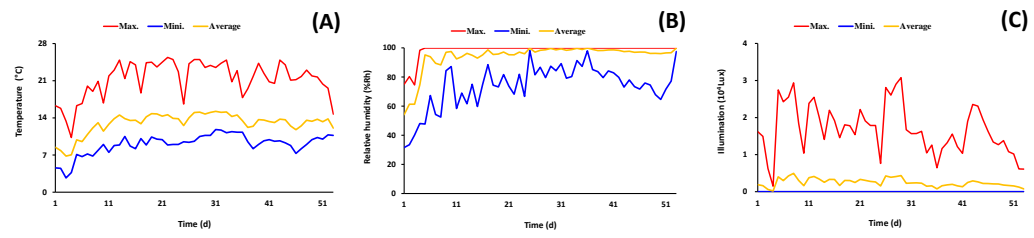


Figure S7. The environment conditions in greenhouse during the experiment. (A) Temperature; (B) Relative humidity; (C) Illumination.

Table S1. List and information of 52 methylation-closer DEGs

Gene ID	Related ID in Arabidopsis	FPKM			
		Control	5-azaC	GA	A+G
psu.G.00000148	AT2G26690	2.81	7.75	6.67	9.58
psu.G.00000250	AT5G14780	36.78	82.54	16.28	308.72
psu.G.00000293	AT5G23960	15.45	6.54	8.29	5.06
psu.G.00000542	AT5G22390	2.33	11.6	7.42	46.01
psu.G.00000564	AT3G18660	2.64	7.76	6.18	6.81
psu.G.00000730	AT3G56290	2.98	24.37	12.75	35.67
psu.G.00001780	AT1G17840	72.41	26.87	54.98	27.18
psu.G.00002254	AT1G76860	0.48	7.77	3.95	8.94
psu.G.00002435	AT5G03160	6.43	16.41	10.95	13.18
psu.G.00002595	AT5G36110	2.26	0.16	1.4	0
psu.G.00003167	AT2G21630	47.27	17.99	21.43	16.79
psu.G.00003518	AT3G07360	17.33	41.29	18.12	36.36
psu.G.00004383	AT3G45140	4.14	8.76	5.07	18.97
psu.G.00005680	AT2G37170	2.76	9.82	5.81	10.24
psu.G.00008597	AT5G08350	0	4.75	2.43	2.87
psu.G.00009028	AT1G10240	0	1.62	1.01	1.74
psu.G.00011258	AT4G27290	2.57	0.02	2.87	0
psu.G.00011653	No Hit Found	12.77	0	15.97	0
psu.G.00012435	No Hit Found	1.67	32.81	12.17	27.23
psu.G.00013525	AT1G50460	8.27	17.13	8.16	20.08
psu.G.00013935	AT2G46270	6.34	21.14	16.2	29.88
psu.G.00015653	AT3G22840	12.34	42.4	23.36	55.98
psu.G.00016620	AT4G17460	41.81	90.18	75.46	98.21
psu.G.00016687	AT4G00430	22.23	46.71	27.98	44.53
psu.G.00017247	AT1G26800	133.04	402.29	145.02	427.83
psu.G.00019209	AT1G52690	178.73	1083.55	342.19	706.36
psu.G.00021959	AT5G06570	103.12	43.28	72.77	41.99
psu.G.00022205	AT3G63240	9.01	1.11	8.45	0
psu.G.00022296	AT5G48050	10.56	26.28	12.36	26.27
psu.G.00022479	AT4G27290	18.8	4.71	13.23	4.55
psu.G.00022480	AT4G35350	38.25	104.92	69.57	78.29
psu.G.00022856	AT1G28370	76.53	35.29	48.13	33.67

psu.G.00024215	AT1G08550	19.09	0	12.37	5.54
psu.G.00026036	AT1G60470	2.48	36.08	5.31	17.49
psu.G.00026211	AT3G24500	38.76	139.14	25	98.34
psu.G.00026292	AT4G03500	17.29	8.01	12.91	0
psu.G.00026316	AT1G21270	10.96	2.16	7.33	0
psu.G.00026565	AT1G20190	37.53	11.81	25.59	17.02
psu.G.00026759	AT5G14740	57.32	129.38	102.59	286.84
psu.G.00026808	AT3G01090	0	6.74	0	7.89
psu.G.00027080	AT4G36830	16.16	39.29	29.3	49.83
psu.G.00028784	AT1G67090	59.71	152.05	65.98	159.76
psu.G.00029869	AT5G57990	3.13	0	2.5	0
psu.G.00030114	AT1G63490	4.52	0	10.98	0.19
psu.G.00030676	AT3G55580	4.89	16.21	6.29	12.65
psu.G.00031034	AT2G26210	7.59	1.22	2.5	1.23
psu.G.00031814	AT5G20620	130.97	315.76	169.84	293.93
psu.G.00031946	AT5G17860	12.45	4.83	10.02	4.95
psu.G.00032262	AT2G38820	17.11	3.52	8.14	4.67
psu.G.00034481	AT4G20140	9.07	4.45	5.11	2.54
psu.G.00034568	AT5G62680	28.91	14.43	15.24	9.57
psu.G.00034603	AT1G78780	0.72	8.85	1.48	11.23

Table S2. List and information of 302 GA-closer DEGs

Gene ID	Related ID in Arabidopsis	FPKM			
		Control	5-azaC	GA	A+G
psu.G.00000087	AT1G67260	8.37	4.89	1.95	2.28
psu.G.00000131	AT1G27660	42.63	35.58	17.74	18.13
psu.G.00000266	AT1G62360	7.26	15.14	1.22	0
psu.G.00000272	AT5G36220	20.29	19.15	6.31	9.12
psu.G.00000282	AT1G74790	18.74	17.11	8.91	8.39
psu.G.00000384	AT4G20140	16.23	13.29	7.36	5.13
psu.G.00000754	AT1G72830	37.95	23.27	8.36	8.58
psu.G.00000782	AT1G10560	7.88	14.16	18.05	24.2
psu.G.00000919	AT5G03680	47.47	42.82	14.66	19.64
psu.G.00000921	AT3G22160	143.43	75.33	38.86	44.75
psu.G.00001145	AT3G45140	818.82	1101.05	2419.71	2093.8
psu.G.00001416	AT2G37130	12.3	16.52	5.22	0.98
psu.G.00001427	AT5G15230	566.2	539.39	269.8	125.72
psu.G.00001456	AT5G06510	5.83	2.48	1.33	0.89
psu.G.00001457	AT1G55790	168.99	135.28	65.64	82.26
psu.G.00001668	AT2G33880	37.09	20.71	9.42	7.73
psu.G.00001719	AT3G50410	46.96	39.66	22.99	20.88
psu.G.00001736	AT4G34240	55.99	63.86	116.67	116.56
psu.G.00001953	AT5G24740	11.81	9.56	5.22	5.82
psu.G.00002324	AT3G54480	32.56	21.59	15.01	14.16
psu.G.00002512	AT5G51560	34.97	22.34	14.03	14.47
psu.G.00002587	AT4G18210	8.15	16.47	31.41	32.51
psu.G.00002646	AT3G52970	8.76	22.82	111.65	45.19
psu.G.00002749	AT5G44010	25.29	11.11	10.1	10.99
psu.G.00002758	AT5G43810	249.6	197.41	121.97	107.89
psu.G.00002959	AT3G12500	29.05	44.37	75.79	70.31
psu.G.00003012	AT4G16563	18.03	9.44	4.59	1.69
psu.G.00003047	AT5G23960	0.2	0.97	2.91	6.64
psu.G.00003065	AT4G28080	29.73	58.27	67.85	74.84
psu.G.00003356	AT1G15170	10.9	9.66	2.8	1.07
psu.G.00003413	AT2G44480	499.78	396.4	1459.07	1049.95
psu.G.00003428	ATMG00520	3.02	6.81	7.7	10.01
psu.G.00003430	AT1G31360	10.07	8.11	4.9	3.98
psu.G.00003633	AT1G11580	455.68	628.25	1065.83	1124.04
psu.G.00003922	AT3G51630	39.84	25.08	1.43	11.06
psu.G.00004399	AT2G02148	26.68	15.22	10.78	7.65
psu.G.00004787	AT3G58120	12.9	21.46	48.37	65.88
psu.G.00004830	AT2G27830	225.66	123.74	65.96	102.72
psu.G.00004880	No Hit Found	26.56	18.04	11.96	10.35

psu.G.00004892	AT1G53920	2.79	6.96	13.72	21.12
psu.G.00005049	AT1G55740	206.74	141.97	73.51	65.37
psu.G.00005223	AT1G15460	0.93	2.16	3.94	6.22
psu.G.00005237	AT1G29500	4.01	3.94	32.35	27.63
psu.G.00005247	AT1G22770	97.03	67.44	35.97	46.02
psu.G.00005260	AT1G32860	204.12	190.7	93.75	92.78
psu.G.00005290	AT1G20950	19.35	7.61	4.27	3.87
psu.G.00005384	AT5G02190	12.05	20.95	65.45	37.01
psu.G.00005553	AT4G12730	15.81	31.39	63.2	67.28
psu.G.00005603	AT1G29270	29.66	25.26	9.2	1.71
psu.G.00005669	AT3G50845	41.25	23.25	9.48	14.73
psu.G.00005733	AT1G72210	8.68	8.35	1.32	2.78
psu.G.00005769	No Hit Found	24.81	23.91	4.83	1.7
psu.G.00006058	No Hit Found	424.75	624.14	3133.72	1749.44
psu.G.00006277	AT2G15730	32.63	27.17	14.18	14.51
psu.G.00006280	AT3G30180	24.68	27.11	7.18	8.27
psu.G.00006469	AT1G22400	174.21	178.92	361.93	591.73
psu.G.00006557	AT5G53900	48.92	35.25	16.53	22.74
psu.G.00006629	AT3G15810	129	111.97	46.01	50.69
psu.G.00006702	AT4G37870	484.43	451.85	129.18	100.81
psu.G.00006918	AT1G21410	17.97	18.61	7.25	6.31
psu.G.00007035	AT3G25830	9.05	16.86	29.36	64.14
psu.G.00007228	AT1G23380	12.61	11.65	3.42	2.84
psu.G.00007293	AT1G29460	1.42	3	15.64	21.52
psu.G.00007322	AT1G64380	11.82	13.46	25.86	45.77
psu.G.00007387	AT5G45910	94.92	85.96	192.77	195.99
psu.G.00007389	AT1G53600	7.42	4.24	2.99	2.68
psu.G.00007441	AT1G13280	143.63	177	431.17	401.91
psu.G.00007925	AT1G78100	17.53	9.03	8.59	8.64
psu.G.00007998	AT3G13080	5.06	4.6	2.18	2.47
psu.G.00008023	AT3G62340	16.06	6.68	3.24	3.41
psu.G.00008126	AT2G45580	28.16	56.73	11.55	11.85
psu.G.00008212	AT3G53980	86.91	115.37	42.81	12.11
psu.G.00008253	AT1G48790	25.82	23.18	10.84	10.6
psu.G.00008362	AT4G11650	0	1.03	5.45	13.27
psu.G.00008395	AT4G18260	28.13	20.46	10.12	9.66
psu.G.00008474	No Hit Found	76.65	68.66	21.2	0
psu.G.00008482	AT4G37160	1.52	2.58	5.53	6.08
psu.G.00008628	AT4G27450	12.02	10.78	1.07	2.54
psu.G.00008662	AT3G51060	21.84	15.41	8.22	8
psu.G.00008707	AT1G17100	35.13	72.31	73.98	125.01
psu.G.00008987	AT3G61490	0	0	16.78	32.34
psu.G.00009014	AT1G22360	65.51	36.87	9.83	12.82
psu.G.00009129	AT5G23960	0.2	0.97	2.91	6.64

psu.G.00009548	AT2G31240	20.73	18.97	7.7	9.04
psu.G.00009550	AT1G69560	31.84	39.81	11.98	12.82
psu.G.00009627	AT2G40610	40.16	63.02	167.35	457.23
psu.G.00009823	AT4G31980	39.9	24.8	11.76	0.67
psu.G.00009887	AT2G18630	369.99	354.8	73.35	77.32
psu.G.00009935	AT5G13930	87.1	124.65	382.36	728.33
psu.G.00010206	AT3G16490	25.59	19.8	10.2	9.22
psu.G.00010210	AT2G39540	248.91	226.74	663.45	788.24
psu.G.00010216	AT3G09270	728.35	447.54	291.93	45.41
psu.G.00010279	AT4G31730	45.33	32.32	20.98	19.66
psu.G.00010584	AT2G45850	34.9	25.77	16.65	15.71
psu.G.00010645	AT5G25610	180.79	199.16	481.54	743.73
psu.G.00010727	AT1G69440	14.93	11.17	4.54	3.62
psu.G.00011100	AT2G34460	31.16	32.46	71.35	71.82
psu.G.00011112	AT5G25610	233.35	234.74	574.98	760.03
psu.G.00011212	AT1G61680	3.22	3.89	16	17.54
psu.G.00011224	AT2G20340	5.25	4.17	2.03	1.82
psu.G.00011225	AT2G20340	7.83	8.39	2.8	2.68
psu.G.00011739	AT5G62350	135.43	182.72	321.13	304.32
psu.G.00011785	AT3G22550	52.17	41.97	25.59	25.29
psu.G.00011811	AT2G18630	361.73	335.67	862.08	733.2
psu.G.00011886	AT4G34950	30.74	49.83	62.51	136.83
psu.G.00012072	AT1G59960	18.87	24.21	39.08	53.6
psu.G.00012074	AT1G29930	4315.64	7126.03	9192.03	9657.2
psu.G.00012179	AT3G53980	28.04	39.44	3.82	2.42
psu.G.00012370	No Hit Found	20.93	61.41	95.86	152.16
psu.G.00012434	AT5G05960	164.44	113.93	72.61	40.38
psu.G.00012568	AT5G65690	132.89	111.42	46.72	39.39
psu.G.00012572	AT4G37870	223.96	186.12	93.79	92.96
psu.G.00012585	AT4G31950	17.25	23.76	59.19	948.39
psu.G.00012593	AT3G08570	69.56	54.07	31.28	32
psu.G.00012870	AT5G06570	7.64	7.55	1.84	0.64
psu.G.00013028	AT3G55550	12.88	22.2	33.37	33.42
psu.G.00013127	AT1G64910	129.45	136.46	463.83	541.11
psu.G.00013384	AT5G06530	142.44	174.92	346.71	371.05
psu.G.00013581	AT5G13170	19.16	16.03	8.05	1.13
psu.G.00013856	AT5G54510	354.31	229.14	100.69	109.77
psu.G.00013860	AT1G06750	97.18	75.41	48.46	18.34
psu.G.00013880	AT5G10270	5.9	4	2.77	2.65
psu.G.00013979	AT5G66940	32.45	34.31	13.36	9.54
psu.G.00014288	AT2G20340	9.15	9.04	2.76	1.47
psu.G.00014323	AT5G13930	5.5	6.38	13.86	14.15
psu.G.00014576	AT1G51850	7.51	5.24	3.2	3.55
psu.G.00014631	AT1G48410	17.12	15.63	7.24	5.6

psu.G.00014775	AT4G34220	134.38	135.81	45.9	38.11
psu.G.00014828	AT5G42820	82	49.4	39.46	33.76
psu.G.00014947	AT3G19000	80.45	47.19	31.87	20.2
psu.G.00015090	AT5G38280	6.45	1.8	1.23	0.43
psu.G.00015158	AT3G52950	128.83	99.4	57.87	62.95
psu.G.00015248	AT2G24050	22.69	14.77	10.89	5.6
psu.G.00015265	AT2G40116	8.35	6.9	2.17	2.49
psu.G.00015569	AT2G05760	8.05	5.45	2.72	3.33
psu.G.00015723	AT4G00210	26.33	13.52	4.87	2.37
psu.G.00015871	AT2G38110	10.63	21.11	77.07	114.92
psu.G.00015965	AT2G47000	3.4	2.12	1.29	0.64
psu.G.00016004	AT4G23530	21.83	22.76	9.93	10.07
psu.G.00016018	AT5G53950	29.32	22.15	11.07	5.72
psu.G.00016158	AT3G29320	166.08	165.05	72.13	81.42
psu.G.00016160	AT2G41890	23.76	31.64	8.33	5.85
psu.G.00016225	AT1G76130	37.61	43.86	17.59	12.85
psu.G.00016256	AT4G22010	61.45	103.81	165.29	123.07
psu.G.00016341	AT4G08150	29.41	29.89	7.19	7.74
psu.G.00016375	AT3G18640	9.93	8.03	4.49	1.2
psu.G.00016434	AT4G14230	58.69	33.18	26.97	25.3
psu.G.00016671	AT4G14740	132.43	106.61	65.03	55.37
psu.G.00016791	No Hit Found	15.28	8.52	3.71	4.36
psu.G.00017019	AT5G02370	14.9	11.07	5.94	5.83
psu.G.00017163	AT4G13350	9.49	6.54	2.87	4.6
psu.G.00017387	AT1G67980	53.19	54.02	165.63	231.5
psu.G.00017509	AT5G59800	10.65	4.23	0.88	2.47
psu.G.00017554	AT5G44160	20.06	18.44	7.34	8.98
psu.G.00017792	AT4G27290	7.66	7.19	3.32	2.56
psu.G.00018115	AT4G03000	5.65	5.96	2.31	2.16
psu.G.00018261	AT4G15920	27.75	33.24	64.26	60.8
psu.G.00018368	AT3G45290	7.07	9.14	23.69	30.18
psu.G.00018387	AT4G24000	4.74	1.11	0.27	0.43
psu.G.00018421	AT1G80490	11.56	8.27	5.78	3.24
psu.G.00018511	AT1G20610	19.05	14.47	8.26	7.31
psu.G.00018623	No Hit Found	132.65	71.9	20.47	11.79
psu.G.00018665	AT1G29670	28.67	14.88	78.85	105.53
psu.G.00018762	AT5G01660	34.67	28.83	12.83	16.63
psu.G.00018764	AT1G15740	54.44	33.85	12.95	22.6
psu.G.00018907	AT3G15353	64.63	91.39	21.73	29.74
psu.G.00019041	AT1G14040	8.54	8.2	20.35	17.25
psu.G.00019111	AT5G12250	208.2	364.84	627.65	602.87
psu.G.00019116	AT5G54010	71.02	77.28	246.4	323.66
psu.G.00019588	AT2G26640	54.43	47.81	140.39	152.44
psu.G.00019736	AT5G22920	13.71	10.72	3.06	2.58

psu.G.00019935	AT4G21820	15.03	11.38	7.28	5.92
psu.G.00020154	AT3G62820	18.49	34.93	42.39	64.64
psu.G.00020175	AT1G19715	18.76	15.18	6.52	8.21
psu.G.00020275	AT1G69530	1071.49	1228.37	2751.65	3852.96
psu.G.00020283	AT3G48990	73.19	110.48	173.58	151.47
psu.G.00020330	AT2G16390	4.09	2.64	1.5	1.27
psu.G.00020384	AT5G64200	91.69	47.04	41.31	39.74
psu.G.00020460	AT2G18500	23.76	15.94	8.5	3.69
psu.G.00020858	AT3G28345	8.25	5.72	4.11	2.78
psu.G.00020913	AT1G67830	117.6	72.12	55.49	51.12
psu.G.00020934	AT5G13630	82.47	156.23	176.14	241.98
psu.G.00020981	AT2G26640	13.2	10.16	42.76	41.4
psu.G.00021029	AT4G27450	271.05	143.52	60.08	104.45
psu.G.00021080	No Hit Found	44.5	28.06	19.74	19.78
psu.G.00021156	AT4G24970	29.16	14.52	11.9	7.21
psu.G.00021373	AT3G11410	22.61	33.19	54.7	104.87
psu.G.00021510	AT3G49500	1.78	1.37	0.51	0.21
psu.G.00021920	AT1G52940	10.57	4.5	3.83	3.45
psu.G.00022168	AT3G16370	360.05	305.91	1020.38	1070.1
psu.G.00022374	AT2G04780	116.48	163.2	277.87	410.25
psu.G.00022451	AT5G62350	2.93	10.33	14.31	19.31
psu.G.00022460	AT1G76160	6.53	11.34	25.69	31.74
psu.G.00022518	AT2G03090	1.77	3.01	13.42	13.52
psu.G.00022585	AT3G07610	19.09	18.29	9.52	8.16
psu.G.00022865	AT2G20340	68.98	47.81	30.74	9.12
psu.G.00022873	AT5G22120	28.03	15.02	9.51	3.33
psu.G.00023079	AT1G77120	14.79	7.76	5.87	2.47
psu.G.00023297	AT1G43190	40.57	32.91	17.78	19.65
psu.G.00023400	AT4G35590	70.47	42.61	28.45	32.72
psu.G.00023481	No Hit Found	120.7	79.14	34.57	37.24
psu.G.00023693	AT1G27210	31.75	26.63	14.92	15.31
psu.G.00023853	AT3G08570	69.56	54.07	31.28	32
psu.G.00023874	AT3G26760	12.86	21.88	28.45	31.77
psu.G.00024327	AT1G29930	4125.79	6562.41	9027.91	9155.52
psu.G.00024484	AT1G47960	146.37	79.32	22.9	9.96
psu.G.00024520	AT4G13710	29.77	54.37	123.81	135.67
psu.G.00024557	AT3G51420	46.85	26.03	17.58	22.89
psu.G.00024815	AT4G34131	5.62	11.78	12.56	13.55
psu.G.00025062	AT3G27550	17.3	11.15	8.06	8.59
psu.G.00025185	AT3G02340	30.47	13.58	13.05	8.69
psu.G.00025280	AT5G45380	6.37	2.66	1.67	1.88
psu.G.00025555	AT1G52340	20.65	19.25	69.36	51.92
psu.G.00025670	AT2G25930	32.06	20.67	11.73	14.76
psu.G.00025715	AT4G24210	360.5	294.23	133.14	136.97

psu.G.00026202	No Hit Found	84.66	144.42	428.05	723.21
psu.G.00026203	No Hit Found	0	0.66	10.84	156.22
psu.G.00026236	AT1G61680	1.43	3.04	11.5	9.62
psu.G.00026413	AT3G50700	8.65	7.05	2.84	3.14
psu.G.00026484	AT1G62360	13.22	15.52	2.01	3.82
psu.G.00026597	AT3G10950	30.37	32.32	12.75	11.41
psu.G.00026877	AT2G27610	7.46	4.06	2.33	3.31
psu.G.00027187	AT5G27670	404.71	324.23	199.96	184.63
psu.G.00027253	AT3G02100	26.12	20.92	11.78	11.06
psu.G.00027279	AT5G09280	5.71	7.2	20.22	21.1
psu.G.00027282	AT4G00490	0	0	3.89	5.26
psu.G.00027382	AT1G61680	1.21	4.12	9.02	9.28
psu.G.00027558	AT1G75180	17.16	12.52	7.25	2.47
psu.G.00027565	AT3G26310	2.79	0.46	0	0
psu.G.00027640	AT3G26330	66.8	46.79	29.53	15.03
psu.G.00027768	AT4G11650	61.07	36.21	21.19	3.21
psu.G.00027887	AT4G31940	2.41	3.61	8.32	114.05
psu.G.00028016	AT3G08900	676.92	985.38	1622.9	1772.52
psu.G.00028138	AT5G09970	33.89	29.06	12.41	2.71
psu.G.00028145	AT1G10680	33.45	35.75	82.14	79.69
psu.G.00028348	AT3G26560	10.52	8.55	3.5	2.97
psu.G.00028366	AT5G38450	12.69	19.37	4.69	1.47
psu.G.00028435	AT3G56400	128.13	75.12	53.64	30.23
psu.G.00028489	AT1G71695	302.3	170.02	94.44	142.89
psu.G.00028571	AT1G62360	25.63	25.68	8.58	9.1
psu.G.00028705	AT5G44360	3.21	4.96	11.84	8.13
psu.G.00028758	AT5G48940	8.76	5.1	2.76	1.92
psu.G.00028867	AT5G40390	4.82	7.47	11.08	21.12
psu.G.00029008	AT4G13930	628.39	872.62	1451.53	1546.69
psu.G.00029042	AT1G76420	18.33	12.02	6.71	1.31
psu.G.00029126	AT4G22880	31.24	33.73	100.35	77.11
psu.G.00029132	AT3G57520	1051.46	989.18	461.11	435.59
psu.G.00029158	AT5G23960	0.17	1.28	9.81	30.51
psu.G.00029205	AT2G18500	23.76	15.94	8.5	3.69
psu.G.00029387	AT2G24762	61.93	56.29	160.93	178.9
psu.G.00029408	AT2G38820	9.02	15.7	0.86	0
psu.G.00029474	AT4G24750	0	0	9.32	14.09
psu.G.00029509	AT3G01516	50.74	57.91	20.89	25.3
psu.G.00029549	AT3G63010	25.89	22.8	5.88	6.79
psu.G.00029682	AT5G57250	6.78	4.48	2.42	2.79
psu.G.00030046	AT2G32010	19.49	11.46	8.5	9.55
psu.G.00030118	AT5G56040	8.84	15.24	17.8	18.52
psu.G.00030270	AT5G59320	3262.24	4147.55	7015.24	7786.08
psu.G.00030414	AT5G50160	2.14	3.81	5.65	5.91

psu.G.00030525	AT2G21140	2794.4	3239.45	9388.47	5988.75
psu.G.00030708	No Hit Found	6.02	14.39	37.29	53.99
psu.G.00030733	AT5G03760	4.15	8.83	28.7	29.43
psu.G.00030773	AT2G45550	28.87	41.53	72.7	64.33
psu.G.00030860	AT5G24530	173.83	149.23	82.71	73.14
psu.G.00030929	AT1G29500	11.12	19.99	49.76	56.98
psu.G.00030938	AT3G14280	51.7	49.76	15.71	16.59
psu.G.00031028	AT4G08950	9.09	9.95	27.11	28.26
psu.G.00031291	AT3G49260	23.75	37.05	92.65	133.04
psu.G.00031299	AT5G06900	25.62	29.94	57.48	88.57
psu.G.00031560	No Hit Found	5.3	2.43	0	0
psu.G.00031975	AT2G26340	13.31	2.14	0	0
psu.G.00031977	AT2G40070	51.59	48.82	19.07	18.75
psu.G.00032037	AT5G02030	33.58	27.43	6.19	4.75
psu.G.00032094	AT1G69530	466.4	639.98	1274.93	2073.8
psu.G.00032281	AT5G66600	44.85	32.6	15.19	15.72
psu.G.00032598	No Hit Found	132.65	71.9	20.47	11.79
psu.G.00032772	AT1G68640	38.74	49.91	15.17	15.25
psu.G.00032783	AT4G22880	78.44	66.64	232.39	163.9
psu.G.00032805	AT1G01200	43.58	53.39	91.02	103.93
psu.G.00032900	AT1G48130	29.2	42.46	7.7	2.82
psu.G.00032932	AT3G04290	435.68	369.63	880.74	1308.86
psu.G.00032949	AT5G15120	18.4	27.62	4.15	3.36
psu.G.00033018	AT3G18280	1172.11	1461.66	2414.11	4413.08
psu.G.00033445	AT5G58600	34.94	39.25	79.03	117.63
psu.G.00033448	AT5G45380	14.47	8.72	4.71	4.57
psu.G.00033600	AT2G27080	53.55	67.08	107.75	113.16
psu.G.00033617	AT2G26150	25.25	20.82	10.77	8.96
psu.G.00033646	AT1G58340	2.95	1	0.24	0.26
psu.G.00033762	AT5G66400	160.13	161.56	55.33	53.55
psu.G.00033918	AT1G17100	35.13	72.31	73.98	125.01
psu.G.00034145	AT3G44540	79.97	102.7	195.61	172.22
psu.G.00034341	AT5G53420	172.15	106.37	58.56	73.6
psu.G.00034433	AT1G76490	46.12	30.9	21.04	17.77
psu.G.00034547	AT3G59190	15.24	8.77	4.62	6.92
psu.G.00034668	No Hit Found	53.43	39.05	23.38	14.35
psu.G.00034925	AT3G08900	676.92	985.38	1622.9	1772.52
psu.G.00034940	AT5G12330	65.78	49.56	21.79	23.47
psu.G.00034967	AT1G21410	96.77	116.54	41.99	39.73
psu.G.00035210	AT2G45220	11.46	10.37	1.92	2.4
psu.G.00035252	AT4G31500	27.35	16.26	11.47	8.55
psu.G.00035328	AT1G02500	3.41	11.84	0	0
psu.G.00035439	AT2G45580	260.21	290.97	113.02	90.33

Table S3. Primers used in this study

Gene name	Primer	Sequence (5'-3')	Accession No. / Gene ID
qRT-PCR			
<i>PsKS</i>	qPsKS-F	TTTGAATCTCCCTTTGCCACC	MH546117
	qPsKS-R	TGACCATTTCCCAATCCTGTAA	
<i>PsGA20ox</i>	qPsGA20ox-F	TGGGTGGTCTTCAAGTGTTT	MH546118.1
	qPsGA20ox-R	AGCCCTGTAATGTTTCTGTG	
<i>PsGA2ox</i>	qGA2ox-F	CTCCAAACCCGACACTAAACA	MH546119
	qGA2ox-R	GCCCAATGTTCTTGTTCCCA	
<i>PsCO</i>	qPsCO-F	CGCTTTCCAGTCACTCCTTTC	KF113358.1
	qPsCO-R	GCTTCTTCTTCGGCATCTCC	
<i>PsFT</i>	qPsFT-F	CCAAGCGACCCAAACCTA	KF113360.1
	qPsFT-R	CGCCAACCTGGAGTGTA	
<i>PsAP1</i>	qPsAP1-F	AGAAGAAGGAAAGGGCAATC	KF113361.1
	qPsAP1-R	TTCTCCTCACTTCTGTTGG	
<i>PsSVP</i>	qPsSVP-F	CGATGTTGAGCAAGGAGGTT	KC847164.1
	qPsSVP-R	GCTCTAAATCAGCAGCGACA	
<i>PsSOC1</i>	qPsSOC1-F	CCAATGTCCGAGCAAGAAAG	KR779924.1
	qPsSOC1-R	CCGTGCTTCTCGCATAACAT	
<i>PsLFY</i>	qPsLFY-F	ATGAGAAGGAAGGAGGGGATG	psu.G.00032564
	qPsLFY-R	CTTTGGCAATGGTCTGAACT	
<i>PsGID1c</i>	qPsGID1c-F	TGAAGAACCTCCACCAAG	MH546122
	qPsGID1c-R	CCACAAGACGACGACAAA	
<i>PsGAI</i>	qPsGAI-F	GAGTATGCTGTCCGAGTTCA	MH550803
	qPsGAI-R	CAGGAGCAAGGAACGAAT	
<i>PsMET</i>	qPsMET-F	GCTGCTTTGTACTCCAGGCC	MH038046
	qPsMET-R	CTGGTGGCATTCAAGAAGTCG	
<i>PsCMT</i>	qPsCMT-F	TTGAATCAGGGAGTGGTAATGTG	MH038044
	qPsCMT-R	TTCTTCGCCGACCCTGTTG	
<i>PsDRM</i>	qPsDRM-F	GAGTTTAGAGTTCCCAAGCGAG	MH038045
	qPsDRM-R	GCTCTCATCCTTTCCGTCATC	
<i>SnRK1</i>	qSnRK1-F	CGTCGTAAGATAAAGAACAT	psu.G.00026808
	q SnRK1-R	TTCTGTAAACCTACCCTTT	
<i>WAK2</i>	qWAK2-F	TGTTGGGTAGTTTCTGGTT	psu.G.00026316
	qWAK2-R	TCGCTCCCTTCATGTTTCG	
<i>5Ptase7</i>	q5Ptase7-F	GGTAGGGATATTTCTCACGG	psu.G.00022205
	q5Ptase7-R	CTGCCCACGCAAGACACT	
<i>P450</i>	qP450-F	GTCCATTCCACTTGACCTG	psu.G.00002595
	qP450-R	TCTTCATTATCTTCGCCAC	
<i>SBH1</i>	qSBH1-F	GGATCAGTTCATGGAGGCT	psu.G.00000266
	qSBH1-R	TGTCGTCTGCTAGAGGGTC	

<i>Actin</i>	qPsActin-F	GAGAGATTCCGTTGCCCAG	JN105298
	qPsActin-R	TCCTTGCTCATTCTGTCTGC	
McrBC-PCR			
<i>PsCO</i>	McPsCO-F	CACCTGCCAGAATTAGCG	KF113358
	McPsCO- R	TTCCAGAAACAACCAAGC	
<i>PsFT</i>	McPsFT-F	GCGGCGGACCTAGATAA	KF113360
	McPsFT-R	TAGTCAGGGACGCAATCG	
<i>PsAPI</i>	McPsAPI-F	GTTGGAGTAGAATTGTACCTAGC	KF113361
	McPsAPI-R	ATGCTTCAGTCACGAGGA	
<i>PsSVP</i>	McPsSVP-F	CAGAGTTCGTGGCTTCAG	KC847164
	McPsSVP-R	AGATGACCAGATATGTCCGT	
<i>PsSOC1</i>	McPsSOC1-F	AAACTTTTATCCCTCCCC	KR779924
	McPsSOC1-R	CCGCACCTTAGCCTTT	
<i>PsLFY</i>	McPsLFY-F	GTCGCTGGACTTTATCGC	psu.G.00032564
	McPsLFY-R	CAAAACATTCTGCCCCGA	
<i>PsGID1c</i>	McPsGID1c-F	AGTTAGGCGGGCATAGG	MH546122
	McPsGID1c-R	CAAAATACCCACTTCACAGC	
<i>PsGAI</i>	McPsGAI-F	TCGCACCTTTAGAATACCC	MH550803
	McPsGAI-R	CTCGGCTTGGCTCACA	
MassARRAY Primers*			
	Mass-F	<u>aggaagagag</u> AAAGTTAGGGATGGTAA TTTTTGAA	
	Mass-R	<u>cagtaatacgactcactatagggagaaggct</u> ATAAC CATTAAACCAAAACACAACC	

*The underlined parts mean mass-R inserts with a T7 promoter tag and 8 bases, and MASS-R adds 10 bases to balance Tm value.