

Supplement Table S4. SNP-trait associations with $P < 10^{-4}$, uncorrected for multiple comparisons*

SNP no.	SNP context sequence no.	Chr.	SNP Position	SNP	MAF	N	organ	metab- olite	date	treat- ment	year	P
465	PZD00027.3	3	169757661	A/C	0.09	345	ear	PA	0	WW	2006	7.78E-11
186	PZB01403.4	1	285274032	A/G	0.05	332	silk	ABA	7	WS	2006	2.83E-08
465	PZD00027.3	3	169757661	A/C	0.09	345	ear	PA	7	WW	2006	3.55E-08
947	PZA03368.1	7	162878175	C/T	0.07	350	silk	tot sug	7	WS	2006	3.47E-07
251	PZB02017.1	2	20958246	A/T	0.09	342	ear	Suc	7	WS	2005	1.94E-06
255	PZA03635.1	2	21202350	C/T	0.09	342	ear	Suc	7	WS	2005	2.11E-06
1145	PZA03573.1	9	150138200	A/G	0.12	326	silk	tot sug	7-0	WW	2006	2.72E-06
1198	PZA03569.2	10	138760685	T/G	0.06	335	ear	PA	7	WW	2006	2.96E-06
490	PZB01223.1	3	192865017	T/C	0.10	338	ear	Glc	0	WS	2005	3.52E-06
918	PZA03583.1	7	128404558	A/G	0.44	316	silk	ABA-GE	7	WS	2006	6.59E-06
816	PZB01658.2	6	102953670	A/G	0.48	339	ear	tot sug	7	WS	2006	8.85E-06
109	PZB00728.1	1	206168095	T/G	0.33	325	silk	Glc	7	WW	2006	1.04E-05
224	PZB02518.1	2	5058124	C/G	0.32	327	silk	Glc	7	WW	2006	1.27E-05
1155	PZD00032.1	10	30830485	A/T	0.11	299	leaf	PA	7	WS	2006	1.46E-05
139	PZA03301.5	1	240574310	C/A	0.06	340	ear	F suc	0	WS	2006	1.99E-05
139	PZA03301.5	1	240574310	C/A	0.06	340	ear	F suc	0	WS	2006	2.11E-05
109	PZB00728.1	1	206168095	T/G	0.33	325	silk	T sug	7	WW	2006	2.28E-05
524	PZB01619.2	4	29030873	A/C	0.32	321	silk	tot sug	0	WS	2005	2.49E-05
677	PZA03371.2	5	17231557	G/C	0.05	349	silk	ABA-GE	7	WW	2006	3.08E-05
779	PZA03339.3	5	210890786	A/C	0.07	334	ear	ABA	0	WW	2006	3.50E-05
758	PZA03618.2	5	193521810	T/C	0.13	325	ear	ABA-GE	0	WW	2006	3.56E-05
1062	PZB01872.1	8	172323589	G/T	0.11	338	leaf	PA	7	WW	2006	3.60E-05
759	PZA03618.1	5	193521948	A/C	0.20	318	silk	ABA	0	WW	2006	3.64E-05
153	PZA03392.1	1	263337248	C/T	0.16	315	silk	PA	7	WW	2006	3.96E-05
388	PZB01947.1	3	7410041	T/C	0.29	295	silk	ABA	7	WS	2006	4.34E-05
1014	PZA03395.5	8	130388141	T/C	0.19	335	silk	ABA-GE	7	WS	2005	4.69E-05
254	PZB02017.3	2	20958616	T/C	0.07	342	leaf	ABA	7	WS	2006	5.00E-05
70	PZA03561.2	1	60212360	G/A	0.09	319	silk	Glc	7	WS	2005	6.08E-05
742	PZD00056.3	5	176459414	T/C	0.21	335	leaf	Pro	0	WW	2006	6.09E-05
996	PZA03637.3	8	118439827	T/C	0.06	341	ear	ABA	7	WS	2006	6.44E-05
680	PZB00223.2	5	19973210	T/C	0.15	300	leaf	PA	0	WW	2006	6.82E-05
186	PZB01403.4	1	285274032	A/G	0.05	332	silk	PA	7	WW	2006	6.88E-05
251	PZB02017.1	2	20958246	A/T	0.09	342	ear	Suc	7	WS	2005	7.30E-05
255	PZA03635.1	2	21202350	C/T	0.09	342	ear	Suc	7	WS	2005	7.95E-05
186	PZB01403.4	1	285274032	A/G	0.05	332	ear	ABA	7	WS	2006	8.02E-05
1146	PZA03573.4	9	150138319	T/C	0.06	346	silk	PA	7	WS	2006	8.06E-05
1073	PZB01042.7	9	22040626	T/C	0.23	344	leaf	ABA	0	WS	2005	8.77E-05
405	PZB00137.1	3	87822753	A/G	0.42	317	ear	starch	0	WS	2005	8.81E-05
337	PZA03530.2	2	186509150	C/T	0.11	330	silk	ABA-GE	7	WS	2006	9.56E-05
1080	PZB02423.1	9	28529871	T/C	0.05	343	leaf	ABA	0	WS	2005	9.68E-05

*Abbreviations and references: SNP number (Yan et al. 2009); SNP context sequence number (www.panzea.org); Chromosome number (Chr); nucleotide position counting from the top of respective chromosome (SNP position); SNP alternative nucleotides (SNP); fraction of lines containing the minor allele (minor allele fraction, MAF); number of maize genotypes for which trait data was usable for testing the SNP-trait association (N); probability that a SNP-trait association is due to random effects, uncorrected for multiple comparisons (P).