

Table S2. The distribution of SNP in GWAS accessions

Chromosome	Length of chromosome (Mb)	Number of markers	Marker density (/Mb)	π values (10^{-3}) ^a
Chr1A	603.82	1,965,152	3,255	0.318
Chr1B	723.78	2,132,612	2,946	0.335
Chr1D	505.47	851,279	1,684	0.256
Chr2A	788.14	2,767,043	3,511	0.325
Chr2B	822.62	3,346,827	4,068	0.337
Chr2D	661.15	1,007,665	1,524	0.260
Chr3A	759.36	1,834,189	2,415	0.300
Chr3B	873.78	3,875,162	4,435	0.314
Chr3D	635.91	809,891	1,274	0.251
Chr4A	768.32	1,687,332	2,196	0.275
Chr4B	696.90	2,139,545	3,070	0.268
Chr4D	529.96	1,181,217	2,229	0.268
Chr5A	722.26	1,882,736	2,607	0.314
Chr5B	742.82	2,773,833	3,734	0.336
Chr5D	581.97	792,621	1,362	0.241
Chr6A	630.96	1,847,447	2,928	0.329
Chr6B	756.70	2,348,392	3,103	0.329
Chr6D	507.68	718,777	1,416	0.249
Chr7A	752.19	2,487,964	3,308	0.346
Chr7B	785.29	2,480,022	3,158	0.305
Chr7D	660.15	910,496	1,379	0.236
Mean_A genome	717.86	2,067,409	2,889	0.319
Mean_B genome	771.70	2,728,056	3,502	0.318
Mean_D genome	583.18	895,992	1,553	0.250
Mean_ALL	690.92	1,897,152	2,648	0.296

^a Genetic diversity