

Supplementary Table S1. Summary of the linkage map for QTL analysis

Chromosome	Used markers	Polymorphic markers	Polymorphism (%)	Anchored markers ^{a)}	Length ^{b)} (cM)	AMI ^{c)} (cM)
1	850	150	17.66	80	125.11	1.6
2	660	88	13.33	46	94.12	2.0
3	683	102	14.93	57	116.93	2.1
4	646	28	4.33	18	55.76	3.1
5	509	27	5.30	14	108.32	7.7
6	551	106	19.23	33	77.22	2.3
7	524	60	11.45	29	45.31	1.6
8	545	98	17.98	51	110.63	2.2
9	455	133	29.23	60	125.08	2.1
10	472	73	15.46	31	66.68	2.2
11	631	128	20.38	64	99.72	1.6
12	572	31	5.41	15	39.94	2.7
Total (average)	7098	1024	14.42	498 (41.5)	1064.82	2.1

^{a)} Number of markers selected^{b)} Length: chromosomal length^{c)} Average marker interval