

## Supplementary Tables (S1 – S5)

Table S1 Summary of reconstructed 10-5 input map, locus counts by linkage group and final map goodness-of-fit chi-square

LG	LG Neves <i>et al.</i>	<i>N</i> loci Neves <i>et al.</i>	<i>N</i> loci selected	<i>N</i> loci start order	<i>N</i> loci fixed order	<i>N</i> loci mapped	$\chi^2$
1	9	223	198	13	6	102	3266
2	11	271	244	16	11	119	2183
3	1	193	175	13	13	113	2422
4	6	230	206	22	10	102	2372
5	8	291	279	11	11	128	3101
6	5	263	253	11	10	121	2461
7	2	260	249	16	9	127	3140
8	7	242	198	15	11	117	1976
9	10	228	214	15	11	115	2457
10	12	240	227	28	19	125	2397
11	4	195	191	13	14	87	2099
12	3	205	204	20	13	119	2873