

Table S7 General information of the combined linkage maps of the two simulated populations with 20 markers built by GACD, JoinMap4.1, OneMap and R/qtl.

Software	Order	Length (cM)	Time (s)
Original population			
GACD	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	101.79	10
JoinMap4.1	12, 8, 5, 3, 4, 6, 7, 9, 14, 15, 20, 1, 2, 10, 11, 13, 17, 19, 16, 18	15211.04	33
OneMap	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	103.83	455
R/qtl	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	104.22	63
Distorted population			
GACD	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	104.14	8
JoinMap4.1	12, 8, 5, 3, 4, 6, 7, 9, 14, 15, 20, 1, 2, 10, 11, 13, 17, 19, 16, 18	15203.82	45
OneMap	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	102.92	334
R/qtl	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	104.38	56