

**Table S2 Parent and F1 offspring genotype configurations in the MSL603 tetraploid mapping population.**

No. Clusters	Parental genotype configurations		Type	Counts
2	AAAA	AAAB	Simplex	351
	BBBB	ABBB	Simplex	352
	AAAA	ABBB	Triplex	36
	AAAB	BBBB	Triplex	28
3	AAAA	AABB	Duplex	124
	AABB	BBBB	Duplex	149
	AAAB	AAAB	Double-simplex	143
	ABBB	ABBB	Double-simplex	159
	AAAB	ABBB	X-double-simplex	59
4	AAAB	AABB	Simplex-duplex	182
	AABB	ABBB	Duplex-simplex	254
5	AABB	AABB	Double-duplex	135
<b>Total</b>				<b>1972</b>