

**Genetic Linkage Mapping of Economically Important Traits in Cultivated Tetraploid Potato (*Solanum tuberosum* L.)**

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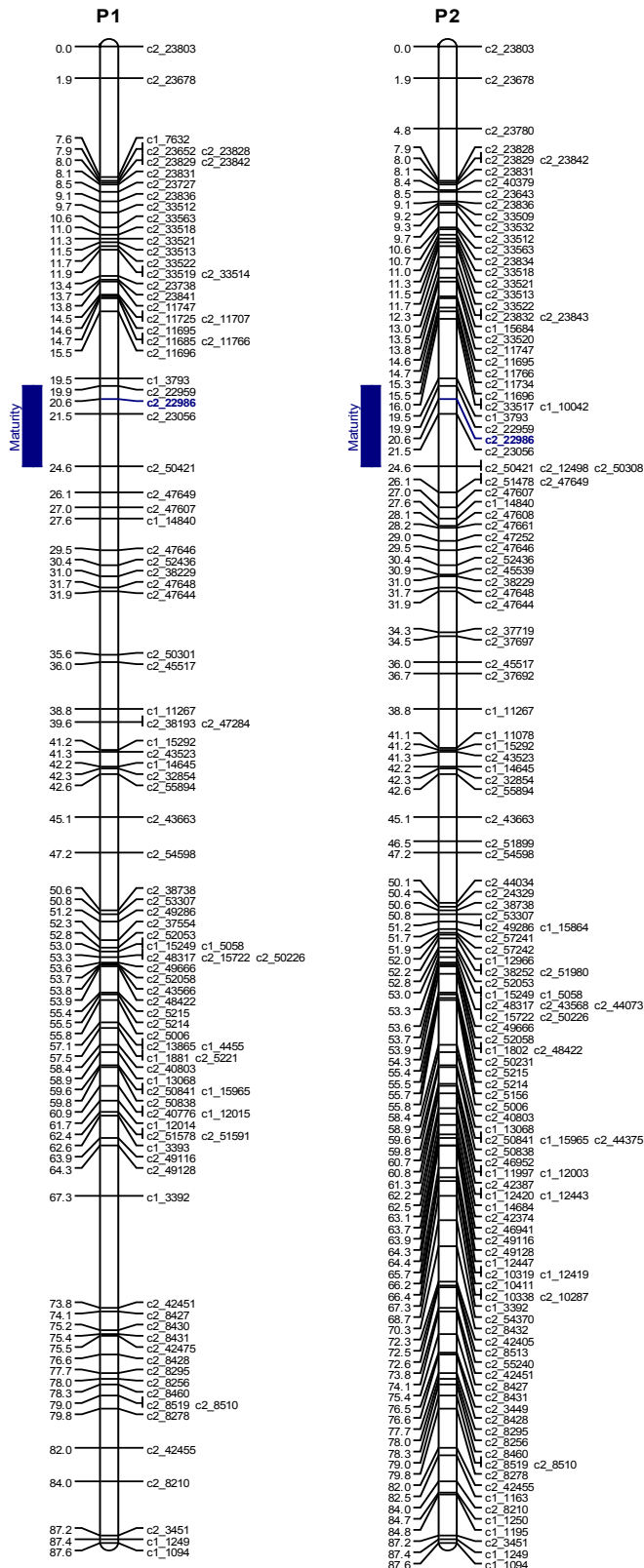
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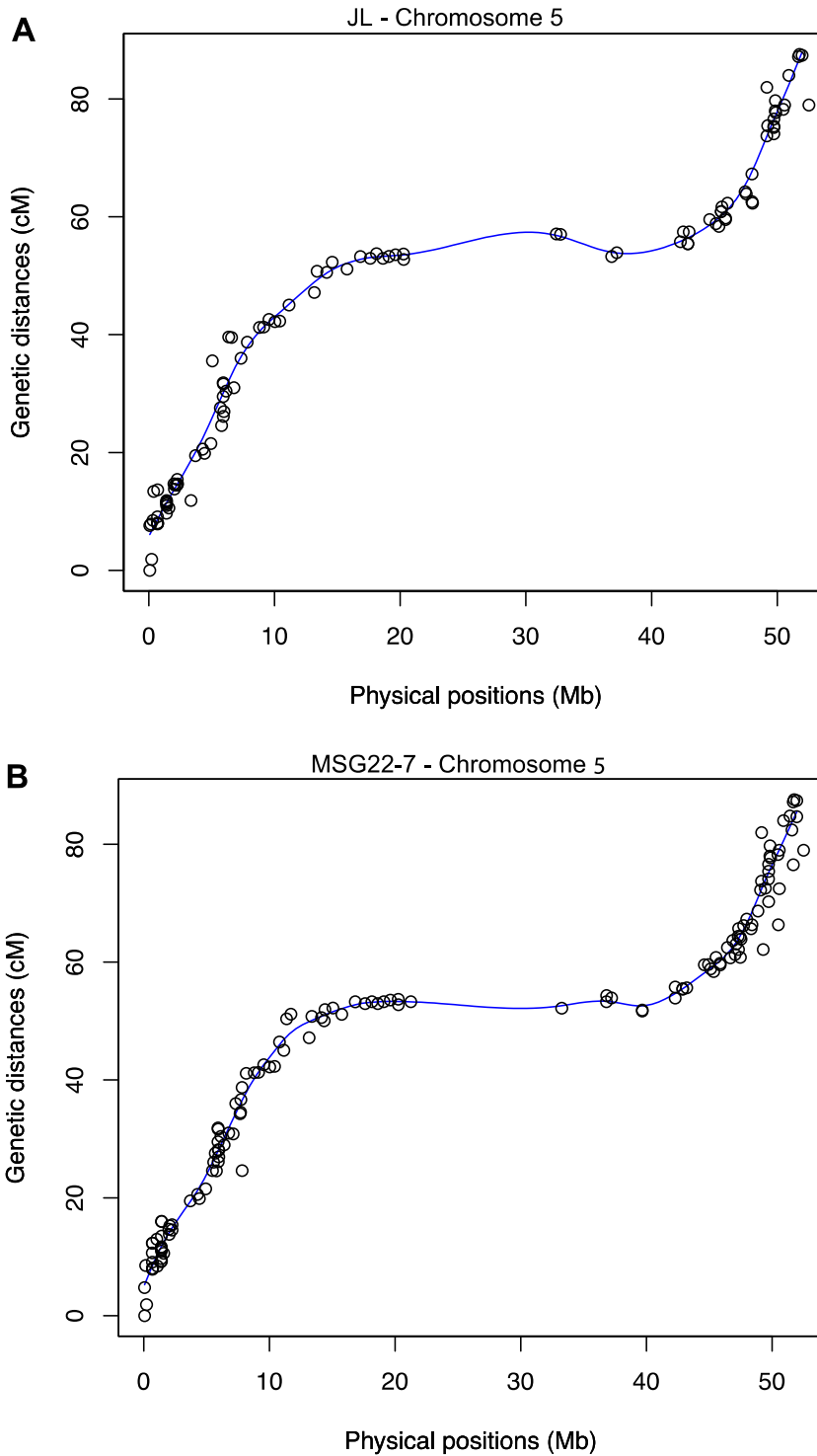
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**Figure S1** Linkage maps of “Jacqueline Lee” (P1) and “MSG227-2” (P2) chromosome 5.

The blue bar corresponds to the two-LOD support interval for the QTL location.



**Figure S2** Graph of chromosome 5 showing the genetic location (cM) and the physical position (Mb) of SNP markers. A: “Jacqueline Lee” (JL), 104 markers. B: “MSG227-2”, 140 markers.

**Table S1** Genotype scores of the Infinium 8303 Potato Array SNP markers (AAAA=0, AAAB=1, AABB=2, ABBB=3, BBBB=4, and missing value=.) evaluated in the MSL603 population.

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**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>

**Tables S3-S4**

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**Table S3.** Order of the mapped SNPs on chromosomes 1-12. SNPs positions are marked with JL (from Jacqueline Lee), G227-2 (from MSG227-2), and blank (from both parents).

**Table S4.** Parents and population late blight (RAUDPC) and maturity (MAT) raw/clonal phenotypic trait data.