

Development of PCR-based markers associated with powdery mildew resistance using bulked segregant analysis (BSA-seq) in melon

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Electronic Supplementary Material (ESM)

The authors are fully responsible for both the content and the formal aspects of the electronic supplementary material. No editorial adjustments were made.

2 Table S1. QTLs and genes reported in the QTL-hotspot region on melon chromosome 12

Markers/genes	Forward sequence (F)	Reverse sequence(R)	F Position	R Position	QTL/gene
CMBR111	TTTTCCTCCATTTTAACTTAGCC	AAGAGAGAAGCCATGGATGAA	22689820	22689911	<i>Pm-PMR6-1</i>
MIndel-89*	TGGAGAACTATGGAATATGGAGGA	GCTTACGGATGAATTTGGACTTGA	22717662	22717921	<i>LVpm12.1</i>
MIndel-92*	CTTGGGAGGATGAGTGAAGGTAAA	TTCGTACTTGAGTTGACTTACGGT	22778911	22779210	<i>LVpm12.1</i>
SSR12202	AGATTTGGAAGGATGTTAGA	AAGTCGGGTGGTAGTTGTTT	22799912	22800109	<i>Pm-PMR6-1</i>
MR-1	AATCTATCCCAAATCAAAGTC	AAGTTATATTGGTCTAGAAGTTT	22804440	22804747	<i>BPm12.1</i>
Mu7191	CTCTATCAGCTCAAAGGCCG	TTCGTCCTCGTTCTCTTGCT	22939658	22939784	<i>Pm-PMR6-1</i>
SSR12407	TAAAAATGACCATAGCACC	AAGTAAATGGCAGACAGAAC	23026248	23026229	<i>Pm-PMR6-1</i>
MIndel-93*	GGTCCTTTTGATGCCATTTGAAGA	TCGTATAGGTCGTTGATGCAAACT	23338823	23339049	<i>LVpm12.1</i>
DM0191	TTGAAGGTCTTTGCTGAAG	GCCTACCACATTTAATTCC	23563739	23563878	<i>Pm-PMR6-1</i>
MIndel-95	CCTTGTGTTGGATTGTGACATGAA	GTTTGTAGGTAGAGAGGGGAGTTG	23801350	23801608	<i>LVpm12.1</i>

*Markers developed in this study

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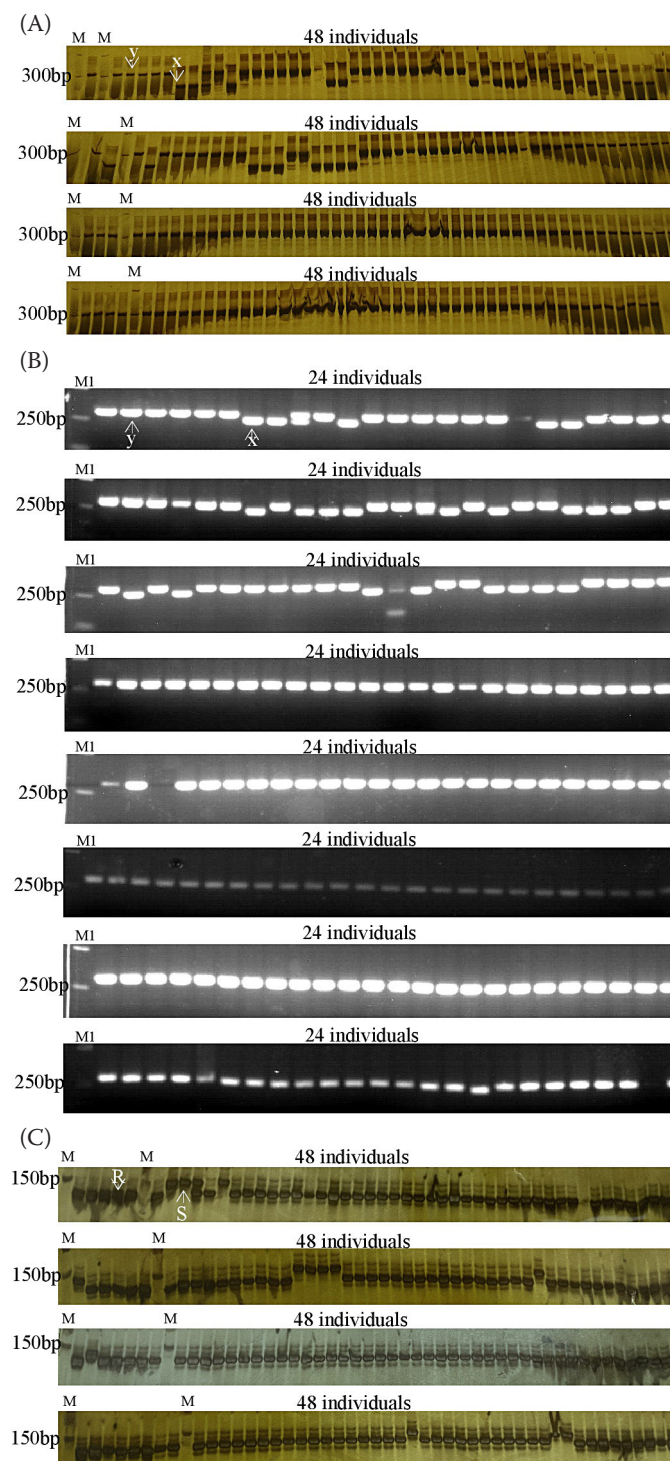


Figure S1. Gel profiling of molecular screening (MS) of the 192 melon breeding lines: polyacrylamide gel profiling of MS with marker MInDel92 (A), agarose gel profiling of MS with marker MInDel92 (B), and polyacrylamide gel profiling of MS with marker Mu7191 (C)

M, M1 – DL500 and DL2000 DNA markers