

Table S2 Sequences of the KASP markers of the disease resistance-related genes

Markers	Left primer (5'–3')	Right primer (5'–3')
Agr4080kps-2	GAAGGTCGGAGTCAACGGATTCCCTTAGAGGCATAGGTTAGGTGGTAGT	TTTGAAGCGAGCAGCGTAGCC
Agr4080kps-4	GAAGGTCGGAGTCAACGGATTCATGATGGGGAAGGTGATGAACT	AGCAGCGTAGCCTCGTCACTAGC
Agr6971kps-4	GAAGGTCGGAGTCAACGGATTGATGGAATCCAGGTGGAGTTGTTT	AACTCGCAACCTGTGGATTGATTAC

PCR program: an initial denaturation at 94 °C for 3 min, followed by 6 cycles of touchdown (94 °C for 20 s, touchdown at 56 °C initially and decreasing by 0.6 °C per cycle for 2 min), and 32–36 (for gel-based size separation) or 39 (for gel-free fluorescence signals) additional cycles of denaturation at 94 °C for 20 s, annealing/extension at 62 °C for 1 min, and a final extension at 62 °C for 2 min