

**Table S1.** Primers sequence for QTL analysis and fine mapping processes (97103 v2).

Primer name	Primer sequence (5'–3')	Restriction endonuclease
Chr03-29252650	F: ATCGCATGTCTACGGTACTAAGA R: TGCTTTGATAACCTTGGTGCTATGA	<i>Bam</i> HI
Chr03-29351495	F: ATTGTCATCGTCATCGCCATC R: GACTTGGTTACTCTAAGTGTCAGA	<i>Eco</i> RI
Chr03-29400429	F: TTATCTTGTCACTGCTGGTCTT R: CATGTCTTCTGCTCGATTCTCA	<i>Msp</i> I
Chr03-29439275	F: TGTGATTCTTCCATTGCGTGTT R: GGCTCCCATTTCCCTCATTCTTG	<i>Kpn</i> I
Chr03-29441274	F: GGACTGTGAGAAGGCATATTC R: TCACCTTTGTAATTGGCTGT	<i>Bam</i> HI
Chr03-29467463	F: ACACAACCATAACATTCAG R: TGTCTGTCTGTCTGTAAGTT	<i>Hind</i> III
Chr03-29483973	F: AACCAGACCTATTCAGTCAG R: AACCTTAGCACATTCATTGG	<i>Hind</i> II
Chr03-29488876	F: GAACGTGCATGTCAAGAGGTAT R: GTTGTCCCATTTGTTAACCACTC	<i>Bcl</i> I
Chr03-29506339	F: GCTTTCACCTTTGGTCACAGAGA R: CGTTTGAGCAATATATGGCGATAG	<i>Taq</i> I
Chr03-29508694	F: GAAGAATGGTCTAACATAAGATGGC R: GCATTTGGTGAGGCTGTAACA	<i>Msp</i> I
Chr03-29529803	F: ATTCCTTGCTCAACCCACTCT R: GTTAGACACTAGAATGCCTTGACTT	<i>Msp</i> I
Chr03-29539131	F: ATTGTGGACCGTTGGATCGT R: ATGGAAGAAATTAGAGGTGGAAGAG	<i>Taq</i> I
Chr03-29540662	F: GAACTTTGGTTCCCAAGAGAAATC R: CTTATTGGTGCCTCTACATCTGTAT	<i>Taq</i> I
Chr03-29570980	F: GGCAGAAGGACCTCAAGGATAT R: AGAGTACACTGGCATGATCGTTA	<i>Taq</i> I
Chr03-29578351	F: GGAGAATGTCATGCTCAATTATGC R: GCCTTCGGTGTTTAACTTGTAAG	<i>Hind</i> II
Chr03-29625999	F: GATCAATAGGCTTCCTACACCTGTG R: GGCTTCTACGTCTTCTTCCATAACT	<i>Msp</i> I
Chr03-29743756	F: CAAGACAAGACCCAAACACAAAG R: TTCAACTGGACAAACCCAAACT	<i>Bcl</i> I
Chr03-29887677	F: TGAATTGGTAGGATGGGAGAGG R: GAAACTTGAAACCTTAGACCCTTAC	<i>Hind</i> II
Chr03-30021268	F: GTGTTGTATTGTTGTGTCCC GTGTCTT R: ACCAGCACCAATCCCTTGATGA	<i>Taq</i> I