

TABLE S2**List of sequenced amplicons used for association mapping**

Name	Forward Primer	Reverse Primer	Designed on
DX	GGCCCATCAACAATCTTAAA	CAAATGCGGTAGATCAGTCG	c0286M05 (AC199625)
Target18 (t18)	GACCTAGCTTGTCTGTCTGATTG	AGGCTTCGTTCATTTCGGTTAC	c0286M05 (AC199625)
Target17 (t17)	TTCTGCTGCTTCGTCTCTGG	ATTTTCGTGCACCAGAGTGTC	c0286M05 (AC199625)
Target16 (t16)	ATCACTGGCACCACCTTATCC	TGTCTCCTATAAGCGCAACC	c0286M05 (AC199625)
EC ¹	CAAACCTTCAGGAACGTGGT	GGAACCTCTGGCTGCATAAC	c0171E08
Target1 (t1) ¹	AAAGGTAGACTAGGAGGGGTAGC	GGGAAGAACAGATCGAGGAG	c0171E08
Target15 (t15)	CAGAGGACGTGACGTAAAGC	CGGCTCTTTCTATTCTGTTCCG	c0171E08
Target3 (t3) ¹	AAAGCTATCCGTCCGATCC	TTTGGCCCACTACTCTTTCC	c0171E08
Target6 (t6) ¹	TAAGCTTCACTGCCCTATGC	ACTTCAGGGATCTTTTGAGC	c0171E08
Target7 (t7) ¹	TCCGCTCTTCTAGCCCAGAC	AGCATGTCATAGAGGCTAGGG	c0171E08
Target9 (t9) ¹	GCCATGCGATATACTTACGC	CCTCCTCCGTTCTTATGTCC	c0171E08
Target10 (t10) ¹	TCTACGACTACGCGAGGAAG	CATGCTACACGGGTGGATAG	c0171E08
Target12 (t12)	CAACTTGTGTTATCTAGCGTTGC	AAGCTTCCCCATGATCTCG	c0171E08
CH	GACCCTGACTCACTTTGTCC	TAACACGACAAGCTGTTTGG	b0130H12.r (CC750108)

¹ These amplicons are equivalent to dominant markers in the NIL population.