

Supplemental Table 3. Primer and EST sequences for PCR-amplified positional candidate genes for cold-hardiness and bud-flush QTLs

LG	Positional candidate gene	GenBank accession	Forward primer	Reverse primer
1	estPmIFG_102G09_c	CN634675	GCTCTCGTGCAGACGTCTTT	AACAGTTGGCTCCAGATCCAG
	estPmIFG_145F05_a	CN637175	AAACCAATGGTTGTGGAAACCT	TAATATTAATTCCAAGTTTTCTCAATC
	estPtIFG_2290_a	H75067	AGCTTGCAGCATCAACCG	GAACCAAACAGCTTCAGGACC
	estPaTUM_PA0006_a	AJ132531	GAGCAAGAGAAAGCGTTTCAG	ATTTGCTCGAGGGAACGGATT
	estPpINR_RN01G08_b	AL750373 AL750374	AAATGCCCAAGTCAACA	GTAATAAAGATGCCCAACAA
	estPpINR_RS01G05_a	AL750905	AAAGCGTTTCTGGAACRKKTTA	GTTTTGGTCAAGGCAATCC
	estPpINR_AS01D10_b	AL749819	CCTCTGCTCGCACCTTGGTC	GTAGCGCCGGGTCATCTCC
2	estPtIFG_8898_a	AA739796	GGGATGGCAACAACAAAAG	ATGGGGGTGCAGCATAAAC
	estPpINR_RN01G02_a	AL750369	AAGACCGCGGACCATCAAG	GCCTTCCGCCTCCTTTACAA
4	estPmSCR_DF6511_a	Z49709	TGATTGATATCTGGTTTTTCGAG	GTCAGAAACCTTAACAGCCA
	estPmaLU_SB41_a	AF051231	GCTGAGGGGAAGGATTGATAC	GCTTCGACAGGCATATTACAG
	estPtIFG_8732_a	AA739680	gccATGCACAGGATGAACCCTTC	ggccccggcgccggTGAAGTTCTGAGTTTGGCGG
	estPtIFG_1626_a	H75183 H75184	TAAGAAGGCGGCGGTACAG	AAACCAGCAGCCACATGAG
	estPtIFG_1165_a	H75179 H75180	CTGAGGGGATGTGCATGAC	AAACCAGCAGCCACATGAG
	estPaTUM_PA0053_a	AJ132535	AACGAAGGTACCAAGTCACTC	TTATTTCTTCCGCAACATCATTAAAG
	estPmIFG_112F09_b	CN635231	TTGATCAAGGAAAGTCTCAAGGT	CAGATAGGATCAATCTCTGTAACAAT
	estPmaLU_SB64_b	AF051245, CN637844	AGGAGGATATAGCTCGGATAC	TGTTACACCGAAACTGTTTCAG
5	estPmIFG_014A07_a	CN634509	TGTATGTTTTATCAGATCCAATG	CTTACGTTGCAGAGCATATTATA
	estPtIFG_0739_a	H75167 H75168	TACAAAGGCTCGGGTATTGG	GTCATGCCTAACAAGCCCTG
	estPmaLU_SB42_a	AF051232	GAAGCTTAACAAGGCCGTATG	CCCAAACATAGGCAATAATCC
6	estPmIFG_202A06_a	CN638390	TGAAAAGCTACTTCTCAATTTATC	AACAGCATGGTTCATGTCCC
	estPpINR_AS01A06_a	AL749786	GCTGGTCAGGCGGGATTC	AACCCCTTGCCGATTCCAAT
	estPmIFG_154C01_a	CN637668	GAAGATGGTCGTACTIONTGGC	TTGCATAACGGTTACCGAAG

7	estPmIFG_102G09_b	see above	see above	see above
	estPmIFG_143D03_a	CN637040	GTCTGGCGAGAATCGTCACC	GCAGCCATGGATCCGAGCTC
	estPmIFG_150C01_a	CN637446	AACATCGTCGTCACCTCTTC	TCTCGTGGTGCTCGTGGAA
8	estPmIFG_202H11_a	CN638460	TTTTGAGGTAAAGCTTGGAG	GGAGCTACATGCAAATTACAAC