

Table 1 26 InDel markers of ‘modilong’ developed based on whole gene resequencing

Gene ID	Forward primer (5'-3')	Reverse primer (5'-3')	Annealing temperature (°C)	Length of the female parent (bp)	Length of the male parent (bp)
chr126151816	'GCCTCCTTCGTCTCTTCCC	'GCAGCATTCTGGGACAAGG	59	273	276
chr163310183	'TGCCAAACCACTTGTAGCCA	'ACACGGATGGAATCGGGT	60	267	269
chr257526795	'GCATGCGCTGAAGCTAGG	'TTCGATGGACGCATGCGA	59	100	98
chr245098788	'GCGTCCGACATTTGCTGC	'GGGAGCTAAGCGATGCGT	60	267	330
chr345311405	'GAATCCGCTGCGCCATC	'TCGGGATTCACCAGTTGTGT	60	277	269
chr41262028	'AGATCATGCGCTCCAACGA	'TTGAACAATCGGGGCCCC	59.5	270	272
chr412955559	'ACGAGGGGTGGATTCTTCA	'GCGTTCAGCTGGGTTCAC	59	272	303
chr413443261	'CCCATTTCTCGTCTCTTCCCC	'TCTCCTGAATGCGGACGC	60	248	266
chr523661005	'TGGCTGTGAAAGGTGTGCA	'GGGAGTGTGGCCGATCAC	60	170	172
chr551026677	'ACCCGCCTTAGACAAAAGGT	'GCTTCGCGTTGTGGATGG	59.5	276	279
chr618300055	'CGATCGTACACCCGCACA	'GGTCTTCTCGGCGCACTA	59	91	95
chr640818838	'TTTTCACTTAGCCACCCCAA	'GGTCGGCAATCTAACGAGGA	59.5	114	135
chr611116630	'TCACAGCCAGCCTTGACC	'CCGAGGTCGAACACAGGG	59.5	215	212
Chr717248263	'AGCGATCAAGACAATCCTCGA	'CGTTCTTTCGTTGCTCATGGA	59	243	297
chr742564327	'GCGCTAAATTTGCGGGCT	'GACCAGGTGGAGTGGCAC	59	207	209
chr817904254	'CAGGGACGACACCACCAC	'ATCGCACATTGTCGCCCA	60	276	279
chr855536135	'CCCCTGGGTTACCTACATCC	'TGGTCAGTTTGTGCGGCTCA	59	243	245
chr934860344	'ACGTCAAATCGCGTGTGTCAG	'CCGCCCATGGACATCTC	59	245	256
chr992107509	'TCATATCGCGTCCAATCCAGT	'CCCCCTCAAGTTGGAGCA	58.5	248	250
chr1045610178	'ACTTTGTGGAAGCAGTCGC	'TGTGGGTGTCCAGCTCAC	59	259	262
chr1021383373	'TCGCTCCGCTTAGCCCTA	'GCTCCAACCTCCGTATCAAGGT	60	229	231
chr1152371587	'GGCCCTTCTTTTTCGCGC	'CAGTAGCCCAACACCGCA	60	274	119
chr1221699690	'CCAATGCCTCACCTCGG	'AGGGATGCGTTGGTGGTG	60	198	204
chr1223923504	'TGTTGTGCACGTGCTTGC	'CGAGTGGCGGCTGGATAG	60	214	261
chr1252341989	'GCACCGTGGGGCTGATAG	'AGTGGGCGTTAGTGATGGA	60	205	257
chr1252532776	'CACCCAAGCCTCCAGTGG	'CGGAGGTTTGGGTGGCTT	60	183	189