

Table S1 Primers and Probes Sequence(5'-3') of each SNP for PCR and LDR

Polymorphism	Primers and probes sequence(5'-3')	Length
rs494379 (A/G)	Forward: GGTCAAAGAGTACTCCATGGTCTT	90bp
	Reverse: CCTGGGAGCAAGGTGTGC	
Common probe	P-CTTTTCAAAAAGACCATGGAGTACTTTTTTTTTTTTTTTTTTTTTT-FAM	
Discriminating probes	rs494379_A: TTTTTTTTTTTTTTTTTTTTTTTTGCACCTTATGACCATCAGAACCAGT	98bp
	rs494379_G: TTTTTTTTTTTTTTTTTTTTTTTTGCACCTTATGACCATCAGAACCAGC	100bp
rs5749511 (C/T)	Forward: CTGCTGACGTTTCAGGGAAAT	157bp
	Reverse: TGGGTAGGAAAAGCAAGCAC	
Common probe	P-TCACCCCTTCCACTGCTCCTCCCTTTTTTTTTTTTTTTTTTTTTT-FAM	
Discriminating probes	rs5749511_C: TTTTTTTTTTTTTTTTTTTTTTTTTTGATTGGTGGCCAGCCAGGAAC TCG	102bp
	rs5749511_T : TTTTTTTTTTTTTTTTTTTTTTTTTTGATTGGTGGCCAGCCAGGAAC TCA	144bp
rs3025058 (5A/6A)	Forward : FAM—TGGCCAAATATTTCCCTGT	123bp
	Reverse: ACATGGGTCACGGCACCT	124bp
rs3918242 (C/T)	Forward: CAGCCTGGTCAACGTAGTGA	118bp
	Reverse: AAGCAATTCTCCTGCCTCAG	
Common probe	P-TGCGCCACCACGCCTGGCTAAATTTTTTTTTTTTTTTTTTTT-FAM	
Discriminating probes	rs3918242_C : TTTTTTTTTTTTTTTTTTCCCGAGTAGCTGGTATTATAGGCG	82bp
	rs3918242_T: TTTTTTTTTTTTTTTTTTCCCGAGTAGCTGGTATTATAGGCA	84bp
rs17576 (A/G)	Forward: CTCGCCCCAGGACTCTA CAC	175bp

Reverse: GTGGAGGTACCTCGGGTCGGG

Common probe P-CCC(AG)CAAGCCCTCCGGAACTGTGGTTTTTTTTTTTTTTTTTTT-FAM

Discriminating probes **Rs17576_A**:TTTTTTTTTTTTTTTTTGCCTCACCTGCCCAAGGCCAGCT 168bp

rs17576_GT:TTTTTTTTTTTTTTTTTGCCTCACCTGCCCAAGGCCAGC 173bp
