

Supplementary table 1. 25 μ L PCR reaction system

component	volume(μ L)	concentration
DNA sample	1.00	50-100ng/ μ L
primer	1.00	50 μ M/ μ L
dNTPs	1.00	5mM/ μ L
Taq DNA polymerase	0.25	5U/ μ L
10 \times buffer	2.50	
ddH ₂ O	18.25	

Supplementary table 2. Conditions applied for PCRs

Primers(Forward/Reverse)	PCR conditions	Size (bp)
F:5'-TAGGAGATAAGGCATAGAAAGC-3'	95°C-5m;(95°C-40s,54°C-40s,	451
R:5'-AGGGGATGCTAAGGTTTCT-3'	72°C-40s) \times 30;72°C-5m	
F:5'- TGAGGTTCGAGTCGGCCCCCT-3'	95°C-5m;(95°C-30s,67°C-30s,	250
R:5'- TGCCCAAACATGGCACACAT-3'	72°C-30s) \times 30;72°C-5m	

F, forward primer; R, reverse primer.

Supplementary table 3. The haplotype frequencies of five SNPs and the distributions between

cases and controls (the frequencies in both groups are more than 3%)

Haplotype	case(freq)	control(freq)	χ^2	p	OR(95%CI)
A-C-C-A-C	1428(0.17)	1391(0.45)	2.15	0.143	0.08(0.97, 1.20)
A-T-C-G-C	376(0.12)	395(0.13)	0.26	0.610	0.96(0.83, 1.12)
G-C-T-G-T	1098(0.36)	1156(0.37)	1.32	0.250	0.94(0.85, 1.05)