

Supplementary Table 1

PCR-RFLP conditions

SNPs fragment length	primer sequence	annealing temp
-82 G/C G: 180 + 48 bp C: 228 bp	Fw: 5'-GGATGGATGGGGAAGGACAG-3' Rv: 5'-CGGCGACTGCGGTTTTATCC-3'	60°C
+4 A/C A: 179 bp C: 107 + 72 bp	Fw: 5'-GCGAAGGCCGGAAGGGATAA-3' Rv: 5'-GCCAGCAGGAGCAGCGGG-3'	62°C
+148 G/A G: 130 + 127 bp A: 257 bp	Fw: 5'-TCTAGCTCCAGCCTCTCGCCT-3' Rv: 5'-ATGTCGTTGCTGGCTTTGTT-3'	60°C

bp: base pair, Fw: forward, Rv: reverse.

Supplementary Table 2

Primers used for site-directed mutagenesis and real-time PCR

Genes	Primer sequence
CST3 (+148A)	Fw: 5'-TGAGCCCCGCGACCGGCTCCAGT-3'
	Rv: 5'-ACTGGAGCCGGTCGCGGGGCTCA-3'
CST3	Fw: 5'-CCGAACCACGTGTACCAAGAC-3'
	Rv: 5'-TTTCAGATGTGGCTGGTCATG-3'
GAPDH	Fw: 5'-GCACCGTCAAGGCTGAGAA-3'
	Rv: 5'-TCTCGCTCCTGGAAGATGGT -3'
