

Table 4. Results of haplotypes association analyses for serum 25-OHD₃ levels

Covariates		<i>r</i>	<i>PI</i>	β (SE)	<i>P2</i>
GC: rs222020-rs2298849					
Haplotype	Frequency				
TA	0.638	-0.082	0.001		
CG	0.299	0.094	<0.001	0.104 (0.030)	0.001
CA	0.038	-0.024	0.173		
TG	0.024	0.012	0.322		
CYP2R1: rs12794714-rs10741657-rs1562902-rs10766197					
Haplotype	Frequency				
GACG	0.375	-0.004	0.444		
AGTA	0.347	-0.019	0.233		
GGTG	0.165	0.030	0.124		
GGCG	0.057	-0.017	0.250		
Age		-0.074	0.002	-0.006 (0.002)	0.003
Season		0.079	0.001	0.125 (0.039)	0.001

Serum 25-OHD₃ levels were square-root transformed to approximate normality. Bold numbers represent significant *P* values. *r*: Pearson correlation coefficient, *PI*: *P* value of Pearson correlation, β : regression coefficient, SE: standard error, *P2*: *P* value of general linear regression.