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| **Genetic Model** | **Genotype** | **Dyslipidemia Risk** |
| **rs290487 × Obesity** | **rs290481 × Obesity** |
| **OR (95% CI)** | ***pinteraction*** | **OR (95% CI)** | ***pinteraction*** |
| Additive | TT | Reference |   | Reference |   |
| TC | 2.58 (1.08-6.27) | **0.034** | 3.22 (1.29-8.16) | **0.013** |
| CC | 0.76 (0.25-2.26) | 0.622 | 0.71 (0.24-2.07) | 0.529 |
| Dominant | TT | Reference |   | Reference |   |
| TC+CC | 1.84 (0.81-4.22) | 0.148 | 1.96 (0.83-4.67) | 0.121 |
| Recessive | TT+TC | Reference |   | Reference |   |
| CC | 0.41 (0.16-1.05) | **0.064** | 0.33 (0.13-0.81) | **0.015** |

Table S4. The interaction between rs290487 and rs290481 SNPs and obesity status on dyslipidemia risk under all genetic models.

Abbreviations: OR, odds ratio; 95%CI, 95% confidence interval. Dyslipidemia was defined by the presence of one of the following criteria: high TG (≥200 mg/dL), high LDL-C (≥160 mg/dL), low HDL-C (<40 mg/dL) or high TC (≥240 mg/dL) (NCEP, 2002). Interaction analyses were performed using the likelihood ratio test. The significant interaction *p* values are in bold (*p* <0.100).