Supplementary Table 1 The distribution of genotypes of five studied SNPs in subjects with normal glucose tolerance and pre-diabetes

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| --- | --- | --- | --- | --- |
|  | **Control** | **Type 2 diabetes** | **Pre-diabetes** | **Type 2 diabetes and Pre-diabetes** |
| **SNPs** | **aa/Aa/AA** | **aa/Aa/AA** | **OR(95%CI)** | **P** | **aa/Aa/AA** | **OR(95%CI)** | **P** | **aa/Aa/AA** | **OR(95%CI)** | **P** |
| rs2815752\* | 8/197/905 | 8/202/961 | 0.61(0.21-1.76) | 0.36 | 7/268/1336 | 0.93(0.76-1.13) | 0.45 | 15/470/2297 | 0.94(0.78-1.13) | 0.49 |
| rs10938397 | 93/498/490 | 128/479/556 | 1.02(0.89-1.17) | 0.75 | 159/633/776 | 0.94(0.83-1.66) | 0.28 | 287/1112/1332 | 0.96(0.86-1.07) | 0.47 |
| rs4074134 | 208/547/344 | 193/563/409 | 0.87(0.77-0.99) | 0.03 | 263/773/588 | 0.85(0.76-0.95) | 0.005 | 456/1336/997 | 0.86(0.78-1.95) | 0.004 |
| rs17782313 | 73/388/638 | 63/409/694 | 0.94(0.82-1.09) | 0.43 | 94/574/921 | 0.99(0.87-1.12) | 0.83 | 157/983/1615 | 0.98(0.87-1.10) | 0.67 |
| rs11084753 | 128/502/463 | 157/547/459 | 1.11(0.97-1.26) | 0.12 | 197/669/719 | 0.99(0.99-1.08) | 0.08 | 354/1216/1178 | 1.01(0.91-1.12) | 0.86 |

a: minor allele; A: major allele;

SNP: single nucleotide polymorphism; MAF: minor allele frequency; OR: odds ratios. P values were adjusted for sex and age.

The additive model for minor allele was used and odds ratios were calculated by logistic regression analysis except for rs2815752.

\*: The dominant model for minor allele was used