Table S2. Associations between SNPs and risks of type 2 diabetes

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| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | 95% Confidence Interval |
| Marker | Gene | Type of SNPs | Adjusted Odds Ratioa | P-value | Lower bound | Upper bound |
| rs17070905 | ADAMTS9 | 3UTR | 2.30  | 0.015b  | 1.17 | 4.50 |
| rs17070967 | ADAMTS9 | 3UTR | 2.02  | 0.049b  | 1.00 | 4.06 |
| rs6766801 | ADAMTS9 | 3UTR | 2.33  | 0.015b  | 1.18 | 4.60 |
| rs2058703 | BCL11A | non-synonymous | 1.11  | 0.559  | 0.77 | 1.60 |
| rs1051055 | CDC123 | non-synonymous | 1.00  | 0.998  | 0.67 | 1.49 |
| rs12126 | CDC123 | 3UTR | 0.68  | 0.379  | 0.28 | 1.62 |
| rs3088440 | CDKN2A | 3UTR | 1.07  | 0.787  | 0.67 | 1.68 |
| rs1063192 | CDKN2B | 3UTR | 0.65  | 0.080  | 0.41 | 1.05 |
| rs3217986 | CDKN2B | 3UTR | 0.78  | 0.469  | 0.40 | 1.53 |
| rs3217992 | CDKN2B | 3UTR | 1.09  | 0.648  | 0.76 | 1.54 |
| rs11603334 | CENTD2 | 5UTR | 1.68  | 0.077  | 0.95 | 2.98 |
| rs4646954 | IDE | 3UTR | 1.54  | 0.201  | 0.80 | 2.97 |
| rs1057128 | KCNQ1 | non-synonymous | 1.10  | 0.683  | 0.70 | 1.73 |
| rs10798 | KCNQ1 | 3UTR | 0.86  | 0.564  | 0.51 | 1.44 |
| rs8234 | KCNQ1 | 3UTR | 0.81  | 0.248  | 0.56 | 1.16 |
| rs343092 | KMGA2 | non-synonymous | 0.93  | 0.703  | 0.65 | 1.34 |
| rs17109924 | LGR5 | 3UTR | 1.36  | 0.296  | 0.77 | 2.40 |
| rs1043964 | NOTCH2 | non-synonymous | 0.86  | 0.704  | 0.39 | 1.90 |
| rs699779 | NOTCH2 | non-synonymous | 0.79  | 0.463  | 0.42 | 1.49 |
| rs699780 | NOTCH2 | non-synonymous | 0.68  | 0.066  | 0.44 | 1.03 |
| rs7527186 | NOTCH2 | non-synonymous | 0.77  | 0.378  | 0.43 | 1.38 |
| rs835575 | NOTCH2 | 3UTR | 0.67  | 0.130  | 0.40 | 1.13 |
| rs835576 | NOTCH2 | 3UTR | 0.70  | 0.166  | 0.42 | 1.16 |
| rs12911192 | PRC1 | 3UTR | 0.99  | 0.972  | 0.62 | 1.59 |
| rs14280 | PRC1 | 3UTR | 0.89  | 0.738  | 0.46 | 1.74 |
| rs7601 | PRC1 | 3UTR | 0.85  | 0.380  | 0.59 | 1.22 |
| rs10282940 | SLC30A8 | 3UTR | 1.15  | 0.651  | 0.64 | 2.06 |
| rs11558471 | SLC30A8 | 3UTR | 1.16  | 0.615  | 0.66 | 2.03 |
| rs2466293 | SLC30A8 | 5UTR | 1.37  | 0.088  | 0.95 | 1.97 |
| rs1058166 | TCF2 | 3UTR | 1.76  | 0.233  | 0.70 | 4.44 |
| rs1058166 | TCF2 | 3UTR | 1.76  | 0.233  | 0.44 | 1.10 |
| rs1058166 | TCF2 | 3UTR | 1.76  | 0.233  | 0.66 | 1.33 |
| rs2688 | TCF2 | non-synonymous | 0.94  | 0.718  | 0.65 | 1.46 |
| rs1549723 | THADA | 3UTR | 0.97  | 0.893  | 0.68 | 1.55 |
| rs17031056 | THADA | 3UTR | 1.03  | 0.902  | 0.85 | 1.89 |
| rs1801208 | WFS1 | 3UTR | 0.73  | 0.377  | 0.37 | 1.46 |
| rs1801212 | WFS1 | 3UTR | 0.98  | 0.936  | 0.55 | 1.75 |
| rs734312 | WFS1 | 3UTR | 0.88  | 0.491  | 0.61 | 1.26 |

Abbreviations: 5UTR, 5’-untranslated region; 3UTR, 3’-untranlated region.

a Models were adjusted for age, sex, BMI, smoking, skin lesion, and arsenic in drinking water using penalized splines.

b Q-values were 0.247 for rs17070905, 0.408 for rs17070967, and 0.247 for rs6766801 using FDR method.