

Table S1. Logistic regression analysis for diabetes in Korean adults¹⁾

	Co-dominant		Dominant		Recessive	
	AOR (95% CI)	<i>p</i>	AOR (95% CI)	<i>p</i>	AOR (95% CI)	<i>p</i>
rs7756992	0.73 (0.66–0.80)	<u>3.16 × 10⁻¹⁰</u>	0.66 (0.57–0.78)	<u>1.92 × 10⁻⁷</u>	0.63 (0.53–0.75)	<u>2.95 × 10⁻⁷</u>
rs9368222	1.35 (1.22–1.49)	<u>5.40 × 10⁻⁹</u>	1.46 (1.24–1.71)	<u>2.98 × 10⁻⁶</u>	1.53 (1.29–1.82)	<u>8.99 × 10⁻⁷</u>
rs2206734	1.35 (1.22–1.49)	<u>4.91 × 10⁻⁹</u>	1.47 (1.26–1.73)	<u>1.38 × 10⁻⁶</u>	1.51 (1.28–1.79)	<u>1.69 × 10⁻⁶</u>
rs9465871	0.73 (0.66–0.80)	<u>5.46 × 10⁻¹⁰</u>	0.67 (0.57–0.78)	<u>2.51 × 10⁻⁷</u>	0.63 (0.53–0.76)	<u>5.20 × 10⁻⁷</u>
rs7747752	0.74 (0.67–0.81)	<u>1.45 × 10⁻⁹</u>	0.66 (0.56–0.77)	<u>2.47 × 10⁻⁷</u>	0.66 (0.56–0.79)	<u>2.00 × 10⁻⁶</u>

¹⁾ Models were adjusted for age, gender, and examination site.

AOR: adjusted odds ratio; 95% CI: 95% confidence intervals.

Statistically significant values ($p < 0.05$) are indicated in bold and underlined.

Table S2. Linear regression analysis between SNPs in *CDKAL1* gene and traits related to diabetes in Korean adults¹⁾

	C/C	C/R	R/R	Co-dominant <i>p</i>	Dominant <i>p</i>	Recessive <i>p</i>
rs7756992						
FBG	112.75±36.63	116.29±37.66	118.90±38.02	<u>1.91 × 10⁻¹³</u>	<u>3.05 × 10⁻¹⁴</u>	<u>2.36 × 10⁻⁵</u>
HbA1c	6.12±1.21	6.15±1.14	6.26±1.14	<u>7.53 × 10⁻⁵</u>	<u>1.30 × 10⁻⁵</u>	<u>0.04</u>
rs9368222						
FBG	113.69±36.36	116.41±37.85	119.51±38.34	<u>1.21 × 10⁻¹⁴</u>	<u>7.15 × 10⁻⁶</u>	<u>1.11 × 10⁻¹⁶</u>
HbA1c	6.10±1.14	6.16±1.15	6.31±1.17	<u>1.25 × 10⁻⁶</u>	<u>8.06 × 10⁻³</u>	<u>6.87 × 10⁻⁸</u>
rs2206734						
FBG	113.54±36.29	116.42±37.77	119.66±38.55	<u>8.60 × 10⁻¹⁶</u>	<u>5.40 × 10⁻⁶</u>	<u>1.55 × 10⁻¹⁸</u>
HbA1c	6.09±1.14	6.16±1.15	6.31±1.18	<u>5.88 × 10⁻⁸</u>	<u>2.32 × 10⁻³</u>	<u>2.81 × 10⁻⁹</u>
rs9465871						
FBG	113.00±36.92	116.12±37.54	118.91±38.02	<u>2.60 × 10⁻¹³</u>	<u>3.04 × 10⁻¹⁴</u>	<u>3.88 × 10⁻⁵</u>
HbA1c	6.13±1.22	6.14±1.13	6.26±1.13	<u>8.26 × 10⁻⁴</u>	<u>3.24 × 10⁻⁵</u>	0.07
rs7747752						
FBG	112.67±36.18	116.24±37.47	119.43±38.63	<u>7.07 × 10⁻¹⁴</u>	<u>1.70 × 10⁻¹⁵</u>	<u>3.32 × 10⁻⁵</u>
HbA1c	6.12±1.19	6.15±1.14	6.27±1.14	<u>7.13 × 10⁻⁵</u>	<u>6.75 × 10⁻⁶</u>	0.06

Abbreviations: C, common allele; R, risk allele; FBG, fasting blood glucose; HbA1b, glycated hemoglobin. Statistically significant values ($p < 0.05$) are indicated in bold and underlined.

¹⁾ Models were adjusted for age, gender, and examination site.