

Supplementary Table 2. Continued

SNP	EA	NEA	Beta (%)	SE	P
rs2748427	A	G	-0.0307	0.0022	9.82E-49
rs28671200	T	G	0.0086	0.0017	1.56E-08
rs2908277	A	G	0.0166	0.0020	1.29E-18
rs2954021	A	G	-0.0070	0.0012	1.92E-10
rs2971670	T	C	0.0316	0.0017	5.10E-88
rs340882	C	G	-0.0084	0.0013	1.48E-10
rs34664882	A	G	-0.0485	0.0040	4.82E-37
rs360140	A	C	-0.0084	0.0013	9.62E-13
rs3778321	A	G	-0.0106	0.0016	4.18E-11
rs3829109	A	G	-0.0086	0.0015	2.68E-08
rs3842753	T	G	0.0075	0.0016	3.93E-08
rs4076213	A	G	-0.0127	0.0016	3.54E-16
rs452306	T	C	-0.0098	0.0014	5.51E-13
rs453922	T	C	-0.0126	0.0021	1.36E-08
rs4727979	A	C	0.0121	0.0024	4.61E-08
rs4737009	A	G	0.0228	0.0015	8.29E-56
rs4760682	A	C	0.0164	0.0018	3.20E-20
rs4894769	A	T	-0.0073	0.0013	3.61E-09
rs4980325	T	G	0.0108	0.0014	4.70E-14
rs560887	T	C	-0.0307	0.0014	5.55E-122
rs608793	T	C	0.0065	0.0013	4.55E-08
rs61750929	T	C	-0.0284	0.0029	9.49E-24
rs62079722	A	C	0.0112	0.0018	1.91E-11
rs62175726	T	C	-0.0218	0.0036	1.29E-10
rs6445541	T	G	0.0077	0.0014	1.14E-08
rs651007	T	C	0.0108	0.0015	3.28E-15
rs6804915	A	C	-0.0108	0.0014	2.76E-16
rs6877043	T	C	0.0085	0.0014	1.99E-10
rs6931514	A	G	-0.0102	0.0014	1.18E-13
rs6980507	A	G	0.0109	0.0013	8.15E-20
rs7042939	A	G	0.0102	0.0013	1.50E-15
rs7190771	A	G	0.0085	0.0013	6.02E-11
rs7198799	T	C	0.0083	0.0014	4.76E-09
rs72864470	T	C	0.0105	0.0017	1.52E-09
rs7323938	T	C	-0.0098	0.0018	3.39E-10
rs737092	T	C	-0.0073	0.0013	7.57E-09
rs7534795	T	C	0.0100	0.0016	2.13E-09
rs7547793	A	C	-0.0118	0.0021	6.61E-09
rs76533333	A	G	-0.0265	0.0025	2.81E-29
rs76815645	A	G	-0.0131	0.0022	3.40E-09
rs7861647	T	C	0.0128	0.0016	4.50E-14
rs7903146	T	C	0.0133	0.0014	1.04E-22
rs7918272	C	G	-0.0147	0.0015	8.23E-23
rs8138197	A	G	-0.0073	0.0014	3.54E-08
rs837763	T	C	0.0176	0.0013	5.20E-38

Supplementary Table 2. Continued

SNP	EA	NEA	Beta (%)	SE	P
rs855791	A	G	0.0188	0.0013	1.34E-56
rs857725	T	G	-0.0208	0.0014	5.43E-55
rs9299503	A	G	0.0117	0.0023	1.27E-08
rs9376090	T	C	0.0247	0.0014	1.90E-62
rs9604472	C	G	0.0133	0.0023	1.79E-08
rs9818758	A	G	0.0131	0.0017	1.49E-13
rs9909940	T	C	0.0322	0.0014	1.43E-116
rs9914988	A	G	0.0125	0.0016	4.66E-17

MAGIC, Meta-Analyses of Glucose and Insulin-Related Traits Consortium; SNP, single nucleotide polymorphism; EA, effect allele; NEA, non-effect allele; SE, standard error.

Supplementary Table 3. Associations of genetically proxied AMPK activation with functional outcome after ischemic stroke based on the 3-month GWAS results with adjustment for NIHSS

Outcomes	OR (95% CI)	P
Sensitivity analysis (44 SNPs, $r^2 < 0.3$)		
mRS (3–6 vs. 0–2; adjusted NIHSS)		
IVW (P for Cochran's Q=0.92)	0.06 (0.01–0.76)	0.029
MR-RAPS	0.04 (0.00–0.93)	0.045
Weighted median	0.08 (0.00–3.61)	0.196
MR-Egger (P for intercept=0.80)	0.04 (0.00–5.29)	0.191
Ordinal mRS (adjusted NIHSS)		
IVW (P for Cochran's Q=0.29)	0.11 (0.02–0.69)	0.018
MR-RAPS	0.10 (0.01–0.91)	0.041
Weighted median	0.07 (0.00–1.08)	0.057
MR-Egger (P for intercept=0.73)	0.20 (0.00–9.62)	0.416
Sensitivity analysis (25 SNPs, $r^2 < 0.1$)		
mRS (3–6 vs. 0–2; adjusted NIHSS)		
IVW (P for Cochran's Q=0.76)	0.06 (0.00–1.14)	0.061
MR-RAPS	0.04 (0.00–1.42)	0.077
Weighted median	0.07 (0.00–6.81)	0.26
MR-Egger (P for intercept=0.61)	0.01 (0.00–5.92)	0.167
Ordinal mRS (adjusted NIHSS)		
IVW (P for Cochran's Q=0.40)	0.10 (0.01–0.91)	0.041
MR-RAPS	0.10 (0.01–1.43)	0.090
Weighted median	0.06 (0.00–1.48)	0.085
MR-Egger (P for intercept=0.67)	0.24 (0.00–23.08)	0.542

AMPK, AMP-activated protein kinase; GWAS, genome-wide association study; NIHSS, National Institutes of Health Stroke Scale; OR, odds ratio; CI, confidence interval; SNPs, single nucleotide polymorphisms; mRS, modified Rankin Scale score; IVW, inverse-variance weighted; MR-RAPS, Mendelian randomization-robust adjusted profile score.