

Electronic supplementary material

ESM Table 3 Distribution of estimated power for HUFS to replicate reported SNPs in the MAGIC study

SNP	Nearest gene	Reported effect (mmol/l)	Dataset	HUFS MAF	Power
rs340874	<i>PROX1</i>	0.013	HUFS	0.101	0.25
rs780094	<i>GCKR</i>	0.029	HUFS	0.161	0.94
rs11708067	<i>ADCY5</i>	0.027	HUFS	0.147	0.88
rs11920090	<i>SLC2A2</i>	0.02	HUFS	0.356	0.88
	<i>DGKB-</i>				
rs2191349	<i>TMEM195</i>	0.03	HUFS	0.380	0.99
rs11558471	<i>SLC30A8</i>	0.027	HUFS	0.081	0.69
rs7034200	<i>GLIS3</i>	0.018	HUFS	0.357	0.81
rs10885122	<i>ADRA2A</i>	0.022	HUFS	0.295	0.91
rs4506565	<i>TCF7L2</i>	0.023	HUFS	0.454	0.96
rs10830963	<i>MTNR1B</i>	0.067	HUFS	0.065	0.99
rs11605924	<i>CRY2</i>	0.015	HUFS	0.128	0.37
rs7944584	<i>MADD</i>	0.021	HUFS	0.050	0.32
rs560887	<i>G6PC2</i>	0.075	Perlegen	0.043	0.99
rs4607517	<i>GCK</i>	0.062	HapMap	0.104	0.99
rs174550	<i>FADS1</i>	0.017	Perlegen	0.065	0.28
rs11071657	<i>C2CD4B</i>	0.008	N/A	N/A	N/A

^aAs reported for fasting glucose for $n=45,049-76,558$ in Dupuis et al. [1]

^bThe HUFS dataset used to estimate power is based on $n=927$

^cNot available in HUFS for direct replication

^dAfrican-American panels from Perlegen (AFD_AFR) and HapMap (ASW) were used as alternative datasets to estimate power

Reference

1. Dupuis J, Langenberg C, Prokopenko I et al. (2010) New genetic loci implicated in fasting glucose homeostasis and their impact on type 2 diabetes risk. *Nat Genet* 42:105–116