

Supplementary Table 3. List of instrumental SNPs to calculate the effect estimates of HDL level for PD

Instrumental SNP	Effect allele	CHR	Gene	Exposure (HDL)			Proxy-SNP used	Outcome (PD)		
				Beta	SE	MAF		Beta	SE	MAF
rs11570891	T	8	<i>LPL</i>	2.148	0.141	0.125	Yes	-0.103	0.110	0.124
rs1180333	T	1	<i>PPIEL</i>	-0.841	0.151	0.109	Yes	0.052	0.233	0.111
rs12832859	T	12	<i>LOC105370051</i>	0.705	0.116	0.208	Yes	0.132	0.248	0.212
rs1532085	G	15	-	-1.531	0.094	0.485	No	-0.061	0.077	0.488
rs1883025	T	9	<i>ABCA1</i>	-1.439	0.108	0.252	No	-0.069	0.092	0.251
rs2289891	C	11	<i>SIK3</i>	1.700	0.214	0.051	Yes	0.077	0.338	0.047
rs28679685	G	8	-	1.345	0.117	0.202	No	0.027	0.175	0.196
rs2876971	G	22	<i>UBE2L3</i>	-0.543	0.095	0.422	Yes	0.120	0.214	0.427
rs289745	C	16	-	0.882	0.094	0.484	No	0.013	0.132	0.486
rs2925979	T	16	<i>CMIP</i>	-0.534	0.097	0.367	No	-0.037	0.099	0.370
rs4149310	A	9	<i>ABCA1</i>	-0.674	0.104	0.287	No	-0.073	0.084	0.276
rs4244229	G	7	-	0.531	0.094	0.430	Yes	0.014	0.133	0.422
rs429358	C	19	<i>APOE</i>	-1.831	0.160	0.095	No	0.026	0.226	0.099
rs4360631	G	10	-	0.588	0.098	0.360	Yes	0.040	0.159	0.351
rs4983387	A	14	<i>ZBTB42</i>	-0.631	0.098	0.351	No	-0.042	0.098	0.349
rs651821	C	11	<i>APOA5</i>	-2.683	0.101	0.299	Yes	0.013	0.145	0.300
rs74436333	G	20	<i>PCIF1, LOC107985388</i>	-1.574	0.192	0.065	Yes	-0.053	0.214	0.062
rs769446	C	19	<i>APOE</i>	1.356	0.189	0.067	Yes	-0.084	0.194	0.065
rs821840	G	16	<i>CETP</i>	3.895	0.123	0.171	Yes	0.031	0.190	0.163

SNP, single nucleotide polymorphism; HDL, high-density lipoprotein cholesterol; PD, Parkinson's disease; SE, standard error; MAF, minor allele frequency; CHR, chromosome.