

Table S2. Permutation test results between SNP markers and anthropometric traits

No	rs id	Pos [‡]	Alleles [§]	MAF	Permutation <i>P</i> -value of single-locus association test (1df test under additive model)*												
					Outliers			Body fatness measures and UAC (Cluster 1)					Subcutaneous obesity measures (Cluster 2)				
					Ht	WHR	UAW	Wt	HC	WC	BMI	UAC	SbS	SpS	AbS	BiS	TrS
1	rs1861869	52347682	CG	0.450	0.904	0.813	0.0792	0.236	0.685	0.262	0.594	0.344	0.862	0.856	0.912	1	0.962
2	rs1077128	52349154	GT	0.208	1	1	0.595	0.867	0.974	0.996	0.9	0.658	0.147	0.804	0.775	0.998	1
3	rs11643744	52349299	AG	0.280	0.973	0.79	0.977	0.904	0.996	0.728	0.999	0.968	1	0.997	0.999	1	0.939
4	rs7186521	52350423	GA	0.496	0.862	1	0.0971	0.213	0.484	0.532	0.613	0.211	0.771	0.74	0.869	1	0.998
5	rs13334933	52353137	AG	0.195	0.989	1	0.251	0.577	0.837	0.986	0.773	0.766	0.387	0.98	0.829	0.997	1
6	rs16952517	52354558	GA	0.134	1	0.906	0.027	0.995	0.947	1	0.981	1	1	1	1	1	1
7	rs6499643	52355019	TC	0.152	0.802	1	1	0.999	0.997	1	1	1	0.999	1	1	0.998	1
8	rs4784323	52355066	GA	0.307	1	0.94	0.912	0.946	0.971	0.807	0.851	0.142	0.985	1	1	1	0.997
9	rs7206790	52355409	GC	0.469	1	0.0536	0.235	0.107	0.612	0.0154	0.0981	0.117	0.105	0.794	0.985	1	0.317
10	rs9939973	52358069	GA	0.493	0.996	0.355	0.115	0.04	0.189	0.0149	0.0745	0.137	0.435	0.942	0.694	1	0.275
11	rs1421085	52358455	TC	0.465	1	0.82	0.105	0.0224	0.0172	0.00728	0.0177	0.206	0.446	0.996	0.969	1	0.257
12	rs10852521	52362466	CT	0.450	1	0.289	0.246	0.257	0.556	0.0537	0.224	0.087	0.173	0.907	0.999	1	0.494
13	rs11075986	52362845	CG	0.088	1	1	0.999	0.574	0.453	0.956	0.605	1	1	1	0.969	1	0.999
14	rs16952522	52364999	CG	0.057	0.585	0.989	0.928	0.973	0.896	0.661	0.271	0.313	0.268	0.984	0.629	0.99	0.171
15	rs17817288	52365265	GA	0.455	1	0.168	0.088	0.237	0.462	0.0274	0.217	0.113	0.0968	0.741	0.981	1	0.568
16	rs1121980	52366748	CT	0.470	1	0.793	0.0606	0.0179	0.0361	0.011	0.0223	0.227	0.475	0.952	0.86	1	0.209
17	rs16945088	52370025	AG	0.075	1	0.962	0.909	0.828	0.393	0.997	0.86	1	1	1	1	1	1
18	rs17817449	52370868	TG	0.437	0.974	0.861	0.0635	0.0159	0.0344	0.0152	0.0413	0.532	0.528	0.72	0.717	0.997	0.205
19	rs8050136	52373776	CA	0.438	0.917	0.872	0.105	0.0793	0.115	0.0424	0.23	0.73	0.978	0.988	0.98	1	0.939
20	rs9935401	52374339	GA	0.438	0.989	0.992	0.0629	0.0314	0.0531	0.0535	0.0748	0.602	0.832	0.874	0.858	1	0.282
21	rs3751812	52375961	GT	0.436	0.994	0.96	0.127	0.0475	0.0477	0.0332	0.0965	0.501	0.731	0.901	0.832	1	0.234
22	rs9939609	52378028	TA	0.432	0.975	0.75	0.0644	0.0305	0.0947	0.0261	0.0683	0.677	0.642	0.749	0.694	0.999	0.581
23	rs7190492	52386253	GA	0.328	0.962	0.284	0.196	0.0842	0.156	0.0153	0.178	0.0874	0.741	0.762	0.995	1	1
24	rs9930501	52387953	AG	0.470	1	0.885	0.103	0.176	0.305	0.115	0.223	0.467	0.993	0.938	0.865	1	0.339
25	rs17218700	52402080	GA	0.144	1	1	1	0.981	0.974	0.961	0.963	0.936	1	1	1	1	0.995
26	rs11642841	52402988	CA	0.473	1	0.245	0.689	0.498	0.854	0.134	0.645	0.925	1	1	1	1	0.978
27	rs1861867	52406062	CT	0.350	1	0.536	0.29	0.0878	0.1	0.0226	0.0752	0.173	0.999	0.956	0.997	1	0.996
28	rs11075994	52407580	GA	0.295	0.78	0.299	1	0.998	0.976	0.285	0.679	0.62	0.892	0.969	0.974	1	0.936
29	rs1421090	52407671	TC	0.228	0.994	0.892	1	1	1	0.993	1	1	0.934	1	0.815	1	1

* Significant empirical *P* values (<0.05) were shown in bold font.

‡ Chromosome positions of the SNPs are based on Human Reference Genome Sequence Build 36.

§ The alleles are shown as major allele/minor allele