

Supplemental Table 6. Genetic instruments for the multivariable Mendelian randomization analysis; GWAS summary data for the association with BMI and fasting insulin as the exposures, and with sOb-R as the outcome.

SNP	chr	pos	betaBMI	betaINS	seBMI	seINS	nBMI	nINS	beta.out	se.out	pval.out	n.out	eaf.out	id.BMI	id.INS	id.out
rs10009336	4	44480783	-0.014	-0.00048	0.0022	0.0027	794766	108557	0.0188	0.0344	0.5888	3301	0.158	ieu-b-40	ieu-b-116	prot-a-1724
rs10132280	14	25928179	-0.0223	0.00033	0.0018	0.0022	786578	108557	-0.026	0.0277	0.3467	3301	0.307	ieu-b-40	ieu-b-116	prot-a-1724
rs10169594	2	41637688	0.0121	-0.0017	0.0018	0.0021	685712	108557	-0.0102	0.0261	0.6918	3301	0.375	ieu-b-40	ieu-b-116	prot-a-1724
rs10182181	2	25150296	0.0325	-0.0035	0.0016	0.002	792111	108557	0.0159	0.0245	0.5129	3301	0.487	ieu-b-40	ieu-b-116	prot-a-1724
rs10192119	2	164581241	0.0166	-0.0015	0.0022	0.0026	795369	108557	-0.0085	0.0327	0.7943	3301	0.165	ieu-b-40	ieu-b-116	prot-a-1724
rs10195252	2	165513091	0.011	-0.017	0.0017	0.0021	795199	108557	0.0366	0.0249	0.1413	3301	0.402	ieu-b-40	ieu-b-116	prot-a-1724
rs10269783	7	49616203	0.0133	-0.00057	0.0017	0.0021	790551	108557	-0.0074	0.0261	0.7762	3301	0.386	ieu-b-40	ieu-b-116	prot-a-1724
rs10478110	5	112445734	0.01	0.00096	0.0017	0.002	680441	108557	-0.0349	0.0252	0.166	3301	0.438	ieu-b-40	ieu-b-116	prot-a-1724
rs1048932	11	115044850	-0.016	0.00021	0.0017	0.002	795167	108557	0.0394	0.0251	0.1148	3301	0.409	ieu-b-40	ieu-b-116	prot-a-1724
rs10492229	12	110602173	0.0142	0.00086	0.0019	0.0024	794845	108557	0.0267	0.0291	0.3548	3301	0.238	ieu-b-40	ieu-b-116	prot-a-1724
rs10518694	15	53072673	0.0146	0.0029	0.0025	0.003	690554	108557	0.0573	0.0354	0.1072	3301	0.145	ieu-b-40	ieu-b-116	prot-a-1724
rs10733051	1	167280354	-0.0097	0.0027	0.0016	0.002	781928	108557	0.0104	0.0246	0.6761	3301	0.500	ieu-b-40	ieu-b-116	prot-a-1724
rs10742752	11	45438374	0.0124	-0.00097	0.0017	0.0021	792704	108557	-0.028	0.025	0.263	3301	0.619	ieu-b-40	ieu-b-116	prot-a-1724
rs10747488	1	98299475	-0.0123	-0.00017	0.002	0.0024	689295	108557	-0.0097	0.03	0.7413	3301	0.769	ieu-b-40	ieu-b-116	prot-a-1724
rs10750215	11	122505344	0.0108	-0.0039	0.0017	0.0021	788895	108557	-0.0159	0.0255	0.537	3301	0.386	ieu-b-40	ieu-b-116	prot-a-1724
rs1075901	17	15943910	0.0121	-0.0031	0.0016	0.002	794789	108557	-0.0352	0.0248	0.1549	3301	0.565	ieu-b-40	ieu-b-116	prot-a-1724
rs10768994	11	43936945	-0.0114	0.00087	0.0017	0.002	791685	108557	0.0275	0.0255	0.2818	3301	0.437	ieu-b-40	ieu-b-116	prot-a-1724
rs10811871	9	23200766	-0.0108	0.0033	0.0018	0.0021	686376	108557	0.0145	0.026	0.5754	3301	0.379	ieu-b-40	ieu-b-116	prot-a-1724
rs10832778	11	17394073	0.0125	-0.0038	0.0017	0.0032	783042	108557	-0.0045	0.0254	0.8511	3301	0.618	ieu-b-40	ieu-b-116	prot-a-1724
rs10914462	1	32125943	-0.0112	0.0022	0.0017	0.0021	689808	108557	-0.0085	0.0248	0.7244	3301	0.424	ieu-b-40	ieu-b-116	prot-a-1724
rs10920678	1	190239907	-0.0155	0.0011	0.0016	0.002	788624	108557	-0.0416	0.0252	0.1	3301	0.581	ieu-b-40	ieu-b-116	prot-a-1724
rs10938397	4	45182527	0.0324	0.0029	0.0016	0.0022	793518	108557	1.00E-04	0.026	1	3301	0.432	ieu-b-40	ieu-b-116	prot-a-1724
rs10971709	9	33804813	0.0132	0.00022	0.0021	0.0024	688312	108557	-0.0049	0.0301	0.871	3301	0.213	ieu-b-40	ieu-b-116	prot-a-1724
rs11066188	12	112610714	-0.012	0.006	0.0017	0.0022	792755	108557	0.0285	0.0251	0.257	3301	0.411	ieu-b-40	ieu-b-116	prot-a-1724
rs11084553	19	31019780	-0.021	0.00082	0.0024	0.0027	691103	108557	-1.00E-04	0.0352	1	3301	0.147	ieu-b-40	ieu-b-116	prot-a-1724
rs11115176	12	82465797	-0.0121	-0.0028	0.0019	0.0024	792384	108557	0.0332	0.029	0.2512	3301	0.245	ieu-b-40	ieu-b-116	prot-a-1724
rs1112613	13	53651850	-0.0133	0.00063	0.0023	0.0029	682816	108557	0.0131	0.0327	0.6918	3301	0.180	ieu-b-40	ieu-b-116	prot-a-1724
rs11150911	18	73498528	-0.0133	-0.0016	0.0018	0.0022	781716	108557	0.0051	0.0276	0.8511	3301	0.713	ieu-b-40	ieu-b-116	prot-a-1724
rs11165643	1	96924097	0.0206	-0.0021	0.0017	0.002	792657	108557	-0.0163	0.0249	0.5129	3301	0.587	ieu-b-40	ieu-b-116	prot-a-1724
rs11170468	12	39430048	-0.0123	0.0021	0.0019	0.0025	795265	108557	0.0112	0.0286	0.6918	3301	0.238	ieu-b-40	ieu-b-116	prot-a-1724
rs11173522	12	60953472	0.0128	-0.00053	0.0021	0.003	691593	108557	-0.0013	0.0299	0.9772	3301	0.226	ieu-b-40	ieu-b-116	prot-a-1724
rs1144387	13	78365190	0.0098	-0.0017	0.0017	0.0022	687565	108557	-0.0112	0.0251	0.6607	3301	0.559	ieu-b-40	ieu-b-116	prot-a-1724

rs11496125	7	103417557	0.0169	0.0013	0.0017	0.0021	684574	108557	0.0346	0.0252	0.1698	3301	0.429	ieu-b-40	ieu-b-116	prot-a-1724
rs11505821	7	76818677	0.0311	-0.0036	0.0035	0.0053	758322	108557	0.0596	0.049	0.2239	3301	0.069	ieu-b-40	ieu-b-116	prot-a-1724
rs11609659	12	108296260	-0.0154	0.0017	0.002	0.0023	679177	108557	0.007	0.0293	0.8128	3301	0.238	ieu-b-40	ieu-b-116	prot-a-1724
rs11611246	12	939480	0.024	-4.00E-06	0.002	0.0027	779823	108557	-0.0332	0.03	0.2692	3301	0.209	ieu-b-40	ieu-b-116	prot-a-1724
rs11672660	19	46180184	-0.034	0.0023	0.0021	0.0027	768426	108557	-0.0051	0.0313	0.871	3301	0.192	ieu-b-40	ieu-b-116	prot-a-1724
rs11713193	3	49924424	0.0239	0.0057	0.0017	0.0022	692159	108557	-0.0365	0.0245	0.138	3301	0.511	ieu-b-40	ieu-b-116	prot-a-1724
rs11880870	19	18830704	-0.0189	-0.003	0.0017	0.0024	717350	108557	0.0404	0.0247	0.1023	3301	0.478	ieu-b-40	ieu-b-116	prot-a-1724
rs11951673	5	95861012	-0.0123	-0.00035	0.0017	0.0021	792278	108557	0.0607	0.025	0.0151	3301	0.410	ieu-b-40	ieu-b-116	prot-a-1724
rs12044597	1	1708801	0.0143	-0.0051	0.0016	0.0021	789125	108557	-0.0035	0.0244	0.8913	3301	0.515	ieu-b-40	ieu-b-116	prot-a-1724
rs12049202	1	77967523	0.024	-0.0082	0.0022	0.0025	691566	108557	0.0234	0.0312	0.4571	3301	0.195	ieu-b-40	ieu-b-116	prot-a-1724
rs12150665	17	34914787	-0.0162	0.00017	0.0017	0.0021	795501	108557	0.0391	0.0252	0.1202	3301	0.403	ieu-b-40	ieu-b-116	prot-a-1724
rs1218822	13	28011963	0.0168	-0.0045	0.0017	0.0021	794711	108557	0.0162	0.0264	0.537	3301	0.665	ieu-b-40	ieu-b-116	prot-a-1724
rs12364470	11	134601012	0.0178	0.0019	0.0022	0.0028	787411	108557	0.0156	0.0331	0.631	3301	0.167	ieu-b-40	ieu-b-116	prot-a-1724
rs12416812	11	888632	0.0111	-8.50E-05	0.0016	0.0021	793338	108557	0.0242	0.0245	0.3236	3301	0.497	ieu-b-40	ieu-b-116	prot-a-1724
rs12429545	13	54102206	0.0316	0.00079	0.0025	0.0031	778918	108557	0.0422	0.0373	0.257	3301	0.133	ieu-b-40	ieu-b-116	prot-a-1724
rs12448257	16	3599655	0.0184	0.0024	0.002	0.0026	779628	108557	-0.0399	0.0299	0.182	3301	0.226	ieu-b-40	ieu-b-116	prot-a-1724
rs12602912	17	65870073	0.0176	0.0064	0.0021	0.0025	777510	108557	0.0108	0.0312	0.7244	3301	0.185	ieu-b-40	ieu-b-116	prot-a-1724
rs1260326	2	27730940	0.0105	0.021	0.0017	0.0021	784462	108557	-0.0955	0.0253	0.0002	3301	0.598	ieu-b-40	ieu-b-116	prot-a-1724
rs1260326	2	27730940	0.0105	0.021	0.0017	0.0021	784462	108557	-0.0955	0.0253	0.0002	3301	0.598	ieu-b-40	ieu-b-116	prot-a-1724
rs1268065	6	126042783	-0.0102	8.70E-05	0.0017	0.0021	759626	108557	-0.0086	0.0249	0.7244	3301	0.471	ieu-b-40	ieu-b-116	prot-a-1724
rs12680842	8	95582606	-0.0133	0.0017	0.0018	0.0022	782549	108557	0.0032	0.0263	0.912	3301	0.318	ieu-b-40	ieu-b-116	prot-a-1724
rs12914489	15	74187937	0.0165	0.0032	0.0026	0.0032	795244	108557	-0.0179	0.0418	0.6761	3301	0.101	ieu-b-40	ieu-b-116	prot-a-1724
rs12939549	17	78611724	-0.018	-0.00049	0.0016	0.002	793950	108557	0	0.0249	1	3301	0.442	ieu-b-40	ieu-b-116	prot-a-1724
rs13021737	2	632348	0.0574	-0.0061	0.0021	0.0028	789534	108557	-0.0268	0.0333	0.4169	3301	0.833	ieu-b-40	ieu-b-116	prot-a-1724
rs13069244	3	180441172	0.0187	-0.0032	0.0032	0.0042	791327	108557	0.0258	0.0457	0.5754	3301	0.080	ieu-b-40	ieu-b-116	prot-a-1724
rs13107325	4	103188709	0.047	-0.0095	0.0032	0.0048	792045	108557	0.0586	0.047	0.2138	3301	0.076	ieu-b-40	ieu-b-116	prot-a-1724
rs13110266	4	162129844	-0.0117	-0.00037	0.0017	0.0021	791087	108557	0.0193	0.0258	0.4571	3301	0.420	ieu-b-40	ieu-b-116	prot-a-1724
rs13174863	5	139080745	0.0192	0.00034	0.0023	0.0029	773762	108557	0.0244	0.0359	0.5012	3301	0.150	ieu-b-40	ieu-b-116	prot-a-1724
rs13184896	5	122734005	-0.0133	0.0027	0.0016	0.0021	794825	108557	0.02	0.0252	0.4266	3301	0.431	ieu-b-40	ieu-b-116	prot-a-1724
rs13191362	6	163033350	-0.0236	-0.0013	0.0025	0.0033	792699	108557	0.0845	0.0376	0.0245	3301	0.122	ieu-b-40	ieu-b-116	prot-a-1724
rs1321432	20	6614691	0.0201	-0.0063	0.0018	0.0021	686481	108557	0.0112	0.0255	0.6607	3301	0.625	ieu-b-40	ieu-b-116	prot-a-1724
rs13329567	15	68104367	-0.0293	0.0036	0.002	0.0026	793953	108557	0.0205	0.0297	0.4898	3301	0.218	ieu-b-40	ieu-b-116	prot-a-1724
rs1365466	18	36182440	-0.0137	0.0019	0.0019	0.0024	791868	108557	-0.0164	0.0279	0.5623	3301	0.739	ieu-b-40	ieu-b-116	prot-a-1724
rs1409818	20	21381121	0.0201	-0.003	0.0029	0.0035	690984	108557	0.0344	0.041	0.3981	3301	0.105	ieu-b-40	ieu-b-116	prot-a-1724

rs1412235	9	28410996	0.0246	0.0038	0.0017	0.0022	790147	108557	0.0656	0.0263	0.0126	3301	0.317	ieu-b-40	ieu-b-116	prot-a-1724
rs1452075	3	62481063	0.0141	0.00089	0.0018	0.0023	783729	108557	-0.0161	0.0278	0.5623	3301	0.732	ieu-b-40	ieu-b-116	prot-a-1724
rs1465900	11	76473138	-0.0125	0.00049	0.002	0.0024	779748	108557	0.0048	0.0308	0.871	3301	0.219	ieu-b-40	ieu-b-116	prot-a-1724
rs1476322	3	161446055	0.0101	-0.0054	0.0017	0.0027	692523	108557	0.0086	0.025	0.7244	3301	0.554	ieu-b-40	ieu-b-116	prot-a-1724
rs1477199	16	53712135	0.0228	-0.0059	0.0024	0.0031	794442	108557	0.0422	0.0349	0.2239	3301	0.147	ieu-b-40	ieu-b-116	prot-a-1724
rs1492767	4	55221467	0.0094	-0.00018	0.0016	0.0021	794161	108557	-0.0154	0.0259	0.5495	3301	0.511	ieu-b-40	ieu-b-116	prot-a-1724
rs1503526	5	63020706	0.014	0.001	0.0017	0.0022	747347	108557	-0.003	0.0251	0.912	3301	0.473	ieu-b-40	ieu-b-116	prot-a-1724
rs1528435	2	181550962	0.0164	0.00051	0.0017	0.0021	794198	108557	0.0166	0.0252	0.5129	3301	0.619	ieu-b-40	ieu-b-116	prot-a-1724
rs1624134	10	34834482	0.0101	-0.00066	0.0018	0.0021	690572	108557	0.0267	0.0253	0.2884	3301	0.390	ieu-b-40	ieu-b-116	prot-a-1724
rs16851483	3	141275436	0.0369	-0.0059	0.0035	0.0044	692316	108557	0.0446	0.0491	0.3631	3301	0.067	ieu-b-40	ieu-b-116	prot-a-1724
rs17001561	4	77096118	0.0151	0.0044	0.0023	0.0029	794327	108557	-0.0626	0.0349	0.0724	3301	0.146	ieu-b-40	ieu-b-116	prot-a-1724
rs17036328	3	12390484	0.0172	-0.021	0.0025	0.003	795589	108557	-0.0346	0.0389	0.3715	3301	0.117	ieu-b-40	ieu-b-116	prot-a-1724
rs17203016	2	208255518	0.015	0.00083	0.002	0.0027	786272	108557	-0.0208	0.0314	0.5012	3301	0.203	ieu-b-40	ieu-b-116	prot-a-1724
rs17405819	8	76806584	-0.0215	0.0023	0.0018	0.0022	795493	108557	-0.0601	0.0271	0.0263	3301	0.288	ieu-b-40	ieu-b-116	prot-a-1724
rs17513613	19	30286822	0.0186	-0.001	0.0018	0.0022	789575	108557	-0.0258	0.0263	0.3236	3301	0.328	ieu-b-40	ieu-b-116	prot-a-1724
rs17535749	3	10027724	0.015	-0.003	0.0027	0.0036	777038	108557	0.0035	0.0392	0.9333	3301	0.111	ieu-b-40	ieu-b-116	prot-a-1724
rs17636031	10	126594078	0.016	0.0027	0.0019	0.0026	782807	108557	-0.0013	0.0274	0.955	3301	0.291	ieu-b-40	ieu-b-116	prot-a-1724
rs17710386	18	63461201	0.0126	-0.0017	0.0018	0.0022	783810	108557	-0.0062	0.0262	0.8128	3301	0.319	ieu-b-40	ieu-b-116	prot-a-1724
rs17724992	19	18454825	-0.0183	0.0015	0.0019	0.0024	785851	108557	-0.0062	0.0277	0.8318	3301	0.272	ieu-b-40	ieu-b-116	prot-a-1724
rs17789218	6	100600097	0.013	0.002	0.0019	0.0024	793904	108557	0.0019	0.0283	0.955	3301	0.260	ieu-b-40	ieu-b-116	prot-a-1724
rs1843328	12	17111188	-0.0099	0.004	0.0017	0.002	686814	108557	0.0048	0.0253	0.8511	3301	0.503	ieu-b-40	ieu-b-116	prot-a-1724
rs1927790	13	96922191	0.0148	0.0014	0.0016	0.002	794326	108557	-0.0098	0.0245	0.6918	3301	0.421	ieu-b-40	ieu-b-116	prot-a-1724
rs1928295	9	120378483	-0.0141	0.00036	0.0016	0.002	793649	108557	0.0078	0.0246	0.7586	3301	0.430	ieu-b-40	ieu-b-116	prot-a-1724
rs1993709	1	72838529	0.0331	0.0011	0.0021	0.0027	786001	108557	0.0012	0.0315	0.9772	3301	0.811	ieu-b-40	ieu-b-116	prot-a-1724
rs200810	6	97922184	-0.0136	-0.0035	0.0017	0.0021	793699	108557	0.0228	0.0258	0.3802	3301	0.372	ieu-b-40	ieu-b-116	prot-a-1724
rs2033529	6	40350030	0.0205	-0.00096	0.0018	0.0022	792112	108557	0.0043	0.0273	0.871	3301	0.299	ieu-b-40	ieu-b-116	prot-a-1724
rs2126259	8	9185146	-0.001	-0.024	0.0027	0.0033	783743	108557	0.0583	0.0416	0.1622	3301	0.901	ieu-b-40	ieu-b-116	prot-a-1724
rs2163188	10	65314711	0.0131	0.0054	0.0017	0.002	686502	108557	0.0171	0.0251	0.5012	3301	0.483	ieu-b-40	ieu-b-116	prot-a-1724
rs2228213	6	12124855	-0.0139	-0.00034	0.0017	0.0021	795595	108557	0.0058	0.026	0.8318	3301	0.351	ieu-b-40	ieu-b-116	prot-a-1724
rs2246012	6	131898208	0.0158	0.0011	0.0022	0.0026	795598	108557	-0.0091	0.033	0.7762	3301	0.166	ieu-b-40	ieu-b-116	prot-a-1724
rs2307111	5	75003678	-0.0265	-0.00043	0.0016	0.0021	795430	108557	-0.0308	0.0256	0.2291	3301	0.402	ieu-b-40	ieu-b-116	prot-a-1724
rs2357760	6	120213880	0.0145	-0.0022	0.0017	0.0022	791053	108557	0.0229	0.0269	0.3981	3301	0.686	ieu-b-40	ieu-b-116	prot-a-1724
rs2365389	3	61236462	-0.0174	-9.30E-05	0.0017	0.002	783625	108557	-0.038	0.0248	0.1259	3301	0.410	ieu-b-40	ieu-b-116	prot-a-1724
rs2367112	5	64168193	-0.0119	0.0017	0.0016	0.0021	794305	108557	-0.041	0.0247	0.0955	3301	0.511	ieu-b-40	ieu-b-116	prot-a-1724

rs2481665	1	62594677	-0.0161	0.0038	0.0016	0.0021	795247	108557	0.0202	0.0248	0.4169	3301	0.442	ieu-b-40	ieu-b-116	prot-a-1724
rs2605603	11	93221105	-0.0103	0.00074	0.0016	0.002	790857	108557	0.0263	0.0249	0.2884	3301	0.479	ieu-b-40	ieu-b-116	prot-a-1724
rs2744974	6	34579431	0.0249	-0.0084	0.0018	0.0023	789647	108557	0.0227	0.0267	0.3981	3301	0.335	ieu-b-40	ieu-b-116	prot-a-1724
rs2791653	1	11129848	-0.0141	0.0085	0.0019	0.0023	795271	108557	-0.0348	0.0293	0.2344	3301	0.764	ieu-b-40	ieu-b-116	prot-a-1724
rs2820311	1	201841476	0.0235	2.00E-04	0.0018	0.0022	691876	108557	0.0166	0.0264	0.5248	3301	0.322	ieu-b-40	ieu-b-116	prot-a-1724
rs2832283	21	30690558	0.0115	-0.0021	0.002	0.0024	792324	108557	-0.0633	0.0302	0.0363	3301	0.221	ieu-b-40	ieu-b-116	prot-a-1724
rs287104	19	34290995	0.0115	-0.00082	0.0017	0.0021	787307	108557	-0.0192	0.0261	0.4571	3301	0.650	ieu-b-40	ieu-b-116	prot-a-1724
rs2907948	7	150638484	-0.0141	-0.0015	0.0019	0.0025	794299	108557	-0.0394	0.0284	0.166	3301	0.246	ieu-b-40	ieu-b-116	prot-a-1724
rs2931434	5	73159098	-0.0104	-0.0025	0.0018	0.0022	690664	108557	0.0502	0.0258	0.0525	3301	0.335	ieu-b-40	ieu-b-116	prot-a-1724
rs2943645	2	227099180	-0.0062	0.019	0.0017	0.0021	795592	108557	0.0137	0.0254	0.5888	3301	0.645	ieu-b-40	ieu-b-116	prot-a-1724
rs3007105	14	47367616	0.0142	0.00022	0.0017	0.0021	785488	108557	-0.0367	0.0251	0.1445	3301	0.428	ieu-b-40	ieu-b-116	prot-a-1724
rs3731695	2	203820275	0.0116	0.00061	0.0016	0.0021	793581	108557	-0.0025	0.0251	0.912	3301	0.551	ieu-b-40	ieu-b-116	prot-a-1724
rs3736485	15	51748610	-0.0134	-4.40E-05	0.0016	0.002	790404	108557	0.0187	0.025	0.4571	3301	0.534	ieu-b-40	ieu-b-116	prot-a-1724
rs3800229	6	108996963	0.0175	0.0022	0.0018	0.0022	792474	108557	0.0475	0.0275	0.0832	3301	0.714	ieu-b-40	ieu-b-116	prot-a-1724
rs3822072	4	89741269	-0.0067	0.012	0.0016	0.0021	783658	108557	-0.0256	0.0245	0.2951	3301	0.465	ieu-b-40	ieu-b-116	prot-a-1724
rs3828783	6	33767727	-0.0165	-0.0035	0.0021	0.0025	792749	108557	-0.0136	0.0316	0.6607	3301	0.179	ieu-b-40	ieu-b-116	prot-a-1724
rs3829849	9	129390800	0.0098	-6.70E-05	0.0017	0.0021	793851	108557	-0.0561	0.0257	0.0288	3301	0.372	ieu-b-40	ieu-b-116	prot-a-1724
rs3902951	14	69789755	0.0134	0.00031	0.002	0.0024	773819	108557	0.0069	0.0303	0.8128	3301	0.256	ieu-b-40	ieu-b-116	prot-a-1724
rs391300	17	2216258	-0.0119	0.00055	0.0017	0.0021	791120	108557	0.038	0.0262	0.1479	3301	0.634	ieu-b-40	ieu-b-116	prot-a-1724
rs4012234	20	32553047	0.0141	0.0039	0.0018	0.0021	689653	108557	-0.008	0.0248	0.7413	3301	0.580	ieu-b-40	ieu-b-116	prot-a-1724
rs4148155	4	89054667	-0.0188	0.0027	0.0026	0.0035	794889	108557	0.0065	0.0394	0.871	3301	0.113	ieu-b-40	ieu-b-116	prot-a-1724
rs4237643	11	43648368	-0.0223	-0.00079	0.0019	0.0022	692491	108557	-0.0125	0.0271	0.6457	3301	0.690	ieu-b-40	ieu-b-116	prot-a-1724
rs427943	21	46570896	0.017	0.0017	0.0017	0.0025	712095	108557	0.0078	0.025	0.7586	3301	0.565	ieu-b-40	ieu-b-116	prot-a-1724
rs429343	2	147903382	-0.015	0.0012	0.0017	0.0021	689345	108557	0.0202	0.0252	0.4266	3301	0.575	ieu-b-40	ieu-b-116	prot-a-1724
rs4495304	6	31080718	-0.0194	-0.0062	0.0033	0.0038	774211	108557	-0.0013	0.0516	0.9772	3301	0.060	ieu-b-40	ieu-b-116	prot-a-1724
rs4516268	17	1846831	-0.0217	-0.0023	0.0021	0.0025	786617	108557	-0.0071	0.0315	0.8128	3301	0.187	ieu-b-40	ieu-b-116	prot-a-1724
rs4556997	2	100814858	0.0197	-0.0038	0.0024	0.0029	792972	108557	-0.0739	0.0355	0.038	3301	0.140	ieu-b-40	ieu-b-116	prot-a-1724
rs459193	5	55806751	-0.0015	0.015	0.0019	0.0023	795353	108557	-0.0655	0.0278	0.0186	3301	0.742	ieu-b-40	ieu-b-116	prot-a-1724
rs4660443	1	39591779	0.0164	0.007	0.0021	0.0025	687234	108557	0.0424	0.0299	0.1549	3301	0.217	ieu-b-40	ieu-b-116	prot-a-1724
rs4740619	9	15634326	-0.0186	1.60E-05	0.0016	0.002	794491	108557	-0.0272	0.0251	0.2754	3301	0.450	ieu-b-40	ieu-b-116	prot-a-1724
rs4800191	18	22461398	0.0103	-0.001	0.0017	0.0021	785353	108557	0.0317	0.026	0.2239	3301	0.650	ieu-b-40	ieu-b-116	prot-a-1724
rs4820408	22	40704052	-0.0151	0.0023	0.0017	0.0021	794185	108557	-0.0142	0.0265	0.5888	3301	0.588	ieu-b-40	ieu-b-116	prot-a-1724
rs4846565	1	219722104	0.0087	-0.013	0.0017	0.0022	795568	108557	-0.0124	0.0259	0.631	3301	0.343	ieu-b-40	ieu-b-116	prot-a-1724
rs486359	6	160774441	0.0112	0.0061	0.0017	0.0021	770999	108557	-7.00E-04	0.0248	0.9772	3301	0.468	ieu-b-40	ieu-b-116	prot-a-1724

rs4864201	4	130731284	-0.0141	-0.00074	0.0017	0.0021	795263	108557	-0.0227	0.0262	0.389	3301	0.653	ieu-b-40	ieu-b-116	prot-a-1724
rs4865796	5	53272664	-0.0103	0.015	0.0018	0.0022	789716	108557	-0.0402	0.0263	0.1259	3301	0.695	ieu-b-40	ieu-b-116	prot-a-1724
rs4929923	11	8639200	0.0181	0.0021	0.0017	0.0022	794933	108557	-0.0419	0.026	0.1072	3301	0.638	ieu-b-40	ieu-b-116	prot-a-1724
rs4986044	17	21261560	-0.0164	-0.0025	0.0016	0.0021	787219	108557	0.0246	0.025	0.3236	3301	0.455	ieu-b-40	ieu-b-116	prot-a-1724
rs543874	1	177889480	0.0475	-8.00E-04	0.002	0.0027	795504	108557	-0.0553	0.0304	0.0692	3301	0.208	ieu-b-40	ieu-b-116	prot-a-1724
rs592483	11	69445173	-0.0147	0.0026	0.0017	0.0021	781871	108557	-0.0315	0.0251	0.2089	3301	0.560	ieu-b-40	ieu-b-116	prot-a-1724
rs6011457	20	61530915	-0.0116	0.0015	0.0017	0.0021	690692	108557	0.0104	0.0247	0.6761	3301	0.490	ieu-b-40	ieu-b-116	prot-a-1724
rs6050446	20	25195509	0.0343	0.0097	0.0047	0.0063	766287	108557	-0.0879	0.0793	0.2692	3301	0.974	ieu-b-40	ieu-b-116	prot-a-1724
rs6265	11	27679916	-0.0412	0.0012	0.0021	0.0026	795458	108557	0.0192	0.0314	0.537	3301	0.191	ieu-b-40	ieu-b-116	prot-a-1724
rs6443750	3	181329682	0.0148	-0.00037	0.0021	0.0028	776837	108557	-0.0213	0.0319	0.5012	3301	0.810	ieu-b-40	ieu-b-116	prot-a-1724
rs645040	3	135926622	0.0171	0.0082	0.002	0.0025	795579	108557	-0.0097	0.0295	0.7413	3301	0.776	ieu-b-40	ieu-b-116	prot-a-1724
rs6461115	7	2103668	-0.0144	0.0013	0.0019	0.0023	791735	108557	0.0561	0.0298	0.0603	3301	0.219	ieu-b-40	ieu-b-116	prot-a-1724
rs6471941	8	62117973	0.0156	0.0022	0.0021	0.0024	793986	108557	-0.0502	0.0328	0.1259	3301	0.174	ieu-b-40	ieu-b-116	prot-a-1724
rs6500208	16	49011249	0.014	0.004	0.002	0.0025	781931	108557	-0.0173	0.031	0.5754	3301	0.209	ieu-b-40	ieu-b-116	prot-a-1724
rs6545714	2	59307725	-0.0191	-0.0036	0.0017	0.002	793368	108557	-0.0126	0.0253	0.6166	3301	0.604	ieu-b-40	ieu-b-116	prot-a-1724
rs6556301	5	176527577	-0.0111	0.0057	0.0018	0.0023	734744	108557	-0.0108	0.0259	0.6761	3301	0.366	ieu-b-40	ieu-b-116	prot-a-1724
rs6561943	13	58356761	0.0119	0.0041	0.0019	0.0025	793951	108557	-0.0465	0.0283	0.1	3301	0.251	ieu-b-40	ieu-b-116	prot-a-1724
rs657452	1	49589847	-0.0188	0.0022	0.0017	0.0022	767846	108557	-0.0029	0.0257	0.912	3301	0.602	ieu-b-40	ieu-b-116	prot-a-1724
rs6591407	11	56914157	-0.0118	-0.0076	0.0021	0.0027	794246	108557	0.0265	0.0319	0.4074	3301	0.189	ieu-b-40	ieu-b-116	prot-a-1724
rs663129	18	57838401	0.0545	-0.004	0.0019	0.0026	788948	108557	-0.041	0.0283	0.1479	3301	0.235	ieu-b-40	ieu-b-116	prot-a-1724
rs6692586	1	23299906	-0.0192	0.0071	0.0023	0.0028	690921	108557	-0.0173	0.0331	0.6026	3301	0.835	ieu-b-40	ieu-b-116	prot-a-1724
rs6804842	3	25106437	0.0156	-0.0047	0.0017	0.0021	789179	108557	-0.0235	0.0257	0.3631	3301	0.590	ieu-b-40	ieu-b-116	prot-a-1724
rs6822892	4	157734675	0.0015	-0.014	0.0017	0.0022	795148	108557	-0.0011	0.0264	0.9772	3301	0.322	ieu-b-40	ieu-b-116	prot-a-1724
rs6841761	4	25423538	-0.0131	0.0038	0.0016	0.002	793477	108557	0.0071	0.0252	0.7762	3301	0.531	ieu-b-40	ieu-b-116	prot-a-1724
rs6912327	6	34764922	0.0171	-0.016	0.002	0.0029	755883	108557	-0.0011	0.0305	0.9772	3301	0.216	ieu-b-40	ieu-b-116	prot-a-1724
rs6985109	8	10761585	-0.0177	0.0066	0.0017	0.0021	793993	108557	-0.016	0.0246	0.5129	3301	0.552	ieu-b-40	ieu-b-116	prot-a-1724
rs7024334	9	109072075	-0.0138	-0.0037	0.002	0.0024	782431	108557	0.0206	0.0303	0.4898	3301	0.783	ieu-b-40	ieu-b-116	prot-a-1724
rs705704	12	56435412	-0.0131	-0.0061	0.0018	0.0023	743597	108557	-0.0125	0.0259	0.631	3301	0.347	ieu-b-40	ieu-b-116	prot-a-1724
rs709400	14	104149475	-0.015	0.0012	0.0017	0.0021	795379	108557	-0.0462	0.0256	0.0708	3301	0.386	ieu-b-40	ieu-b-116	prot-a-1724
rs7117238	11	78040259	-0.0131	-0.00047	0.0022	0.0027	788879	108557	-0.0119	0.0346	0.7244	3301	0.157	ieu-b-40	ieu-b-116	prot-a-1724
rs7124681	11	47529947	0.0263	-0.0058	0.0016	0.0021	795474	108557	0.0254	0.025	0.309	3301	0.416	ieu-b-40	ieu-b-116	prot-a-1724
rs7138803	12	50247468	0.03	0.0029	0.0017	0.0022	795588	108557	-0.0078	0.0252	0.7586	3301	0.367	ieu-b-40	ieu-b-116	prot-a-1724
rs7144011	14	79940383	0.0282	0.0041	0.002	0.0024	794117	108557	-0.0389	0.0298	0.1905	3301	0.217	ieu-b-40	ieu-b-116	prot-a-1724
rs7239575	18	21120035	-0.0202	-0.0031	0.0017	0.002	692313	108557	-0.0171	0.0245	0.4786	3301	0.483	ieu-b-40	ieu-b-116	prot-a-1724

rs731839	19	33899065	0.0064	-0.015	0.0017	0.0021	793574	108557	0.0621	0.0262	0.0178	3301	0.670	ieu-b-40	ieu-b-116	prot-a-1724
rs7498665	16	28883241	0.0271	0.0013	0.0017	0.0023	790299	108557	0.004	0.0255	0.871	3301	0.390	ieu-b-40	ieu-b-116	prot-a-1724
rs754635	3	42305131	0.0198	0.0057	0.0027	0.0033	690346	108557	-0.0138	0.0389	0.7244	3301	0.887	ieu-b-40	ieu-b-116	prot-a-1724
rs7550711	1	110082886	0.0649	-0.0062	0.005	0.0054	769184	108557	-0.0947	0.0802	0.2399	3301	0.026	ieu-b-40	ieu-b-116	prot-a-1724
rs756717	16	72996162	-0.0148	0.0029	0.0017	0.0021	771976	108557	-0.0413	0.025	0.0977	3301	0.402	ieu-b-40	ieu-b-116	prot-a-1724
rs7599312	2	213413231	-0.0186	0.00086	0.0019	0.0022	780823	108557	-0.0101	0.0289	0.7244	3301	0.270	ieu-b-40	ieu-b-116	prot-a-1724
rs7626079	3	66427259	0.011	-0.002	0.0018	0.0022	692571	108557	0.0472	0.0261	0.0708	3301	0.340	ieu-b-40	ieu-b-116	prot-a-1724
rs7637852	3	44041777	-0.0139	0.0023	0.0019	0.0021	691815	108557	-0.0064	0.0273	0.8128	3301	0.711	ieu-b-40	ieu-b-116	prot-a-1724
rs7640424	3	107820063	-0.0136	-0.0036	0.0018	0.0022	790612	108557	0.0306	0.0271	0.257	3301	0.305	ieu-b-40	ieu-b-116	prot-a-1724
rs7704281	5	50591460	0.0271	0.0087	0.0041	0.0053	788585	108557	-0.0067	0.0621	0.912	3301	0.043	ieu-b-40	ieu-b-116	prot-a-1724
rs7715256	5	153537893	-0.0166	0.00067	0.0016	0.002	795302	108557	-0.0162	0.0247	0.5129	3301	0.564	ieu-b-40	ieu-b-116	prot-a-1724
rs7730898	5	170459675	0.0168	-0.00039	0.0018	0.0022	792975	108557	-0.0105	0.0276	0.7079	3301	0.730	ieu-b-40	ieu-b-116	prot-a-1724
rs7826312	8	32400115	0.0104	-0.0011	0.0017	0.0021	785343	108557	-4.00E-04	0.0257	0.9772	3301	0.599	ieu-b-40	ieu-b-116	prot-a-1724
rs7844647	8	34503776	-0.0123	-0.00098	0.0018	0.0023	793703	108557	0.0433	0.0281	0.123	3301	0.261	ieu-b-40	ieu-b-116	prot-a-1724
rs7899106	10	87412940	0.0331	-0.0037	0.0037	0.0047	793689	108557	-0.0113	0.0611	0.8511	3301	0.046	ieu-b-40	ieu-b-116	prot-a-1724
rs7903146	10	114758349	-0.0181	-0.013	0.0018	0.0024	795624	108557	-0.0778	0.0273	0.0044	3301	0.293	ieu-b-40	ieu-b-116	prot-a-1724
rs7970953	12	24075508	0.0135	0.0071	0.0018	0.0022	788417	108557	-0.023	0.0277	0.4074	3301	0.300	ieu-b-40	ieu-b-116	prot-a-1724
rs7983065	13	33380786	-0.0148	0.00068	0.0017	0.002	690924	108557	-0.0219	0.0246	0.3715	3301	0.453	ieu-b-40	ieu-b-116	prot-a-1724
rs8047395	16	53798523	0.0642	-0.00068	0.0017	0.0021	788856	108557	-0.0389	0.0252	0.123	3301	0.525	ieu-b-40	ieu-b-116	prot-a-1724
rs8071182	17	55336155	0.0133	0.0041	0.0022	0.003	771437	108557	-0.0397	0.0335	0.2344	3301	0.165	ieu-b-40	ieu-b-116	prot-a-1724
rs8097672	18	1839601	0.02	-0.0024	0.0025	0.0028	686063	108557	-0.0097	0.035	0.7762	3301	0.154	ieu-b-40	ieu-b-116	prot-a-1724
rs8097783	18	58051294	-0.0389	0.0031	0.0031	0.0043	795408	108557	0.0544	0.0496	0.2754	3301	0.068	ieu-b-40	ieu-b-116	prot-a-1724
rs8123881	20	15819495	0.0196	0.0026	0.0024	0.003	793018	108557	0.0335	0.0376	0.3715	3301	0.134	ieu-b-40	ieu-b-116	prot-a-1724
rs8192675	3	170724883	0.0152	0.00035	0.0018	0.0023	795515	108557	0.0016	0.0274	0.955	3301	0.285	ieu-b-40	ieu-b-116	prot-a-1724
rs860598	12	102898446	4.00E-04	0.015	0.0022	0.0027	793636	108557	0.0023	0.0338	0.955	3301	0.841	ieu-b-40	ieu-b-116	prot-a-1724
rs889398	16	69556715	-0.0196	0.0021	0.0016	0.0021	789694	108557	0.0071	0.0256	0.7762	3301	0.404	ieu-b-40	ieu-b-116	prot-a-1724
rs901630	6	98539519	-0.0146	-3.30E-05	0.0017	0.0021	794597	108557	6.00E-04	0.0254	0.9772	3301	0.389	ieu-b-40	ieu-b-116	prot-a-1724
rs9294260	6	83433228	0.0147	0.00041	0.0016	0.002	783533	108557	0.0098	0.0253	0.6918	3301	0.474	ieu-b-40	ieu-b-116	prot-a-1724
rs9300422	13	98223320	-0.0103	0.003	0.0018	0.0022	795011	108557	0.0338	0.0264	0.1995	3301	0.676	ieu-b-40	ieu-b-116	prot-a-1724
rs9408882	9	118664402	-0.0093	0.00049	0.0016	0.0021	794283	108557	-9.00E-04	0.0253	0.9772	3301	0.464	ieu-b-40	ieu-b-116	prot-a-1724
rs9522285	13	112230701	0.0127	0.004	0.0017	0.002	690681	108557	5.00E-04	0.0255	0.9772	3301	0.424	ieu-b-40	ieu-b-116	prot-a-1724
rs9547153	13	85903717	0.0098	-0.00059	0.0017	0.0021	775400	108557	0.0345	0.0264	0.1905	3301	0.371	ieu-b-40	ieu-b-116	prot-a-1724
rs9688431	6	73922654	-0.0231	0.007	0.0035	0.0047	789356	108557	0.0069	0.0527	0.8913	3301	0.060	ieu-b-40	ieu-b-116	prot-a-1724
rs974801	4	106071064	3.00E-04	0.014	0.0017	0.0021	795518	108557	-0.0262	0.026	0.309	3301	0.358	ieu-b-40	ieu-b-116	prot-a-1724

rs977747	1	47684677	-0.0169	-0.0056	0.0017	0.002	793546	108557	0.0338	0.0251	0.1778	3301	0.590	ieu-b-40	ieu-b-116	prot-a-1724
rs9783858	18	42534584	0.0091	-0.0026	0.0017	0.0021	770874	108557	-0.037	0.0253	0.1445	3301	0.518	ieu-b-40	ieu-b-116	prot-a-1724
rs9845966	3	13433158	-0.0105	-0.0026	0.0017	0.0022	778076	108557	-0.0028	0.0249	0.912	3301	0.549	ieu-b-40	ieu-b-116	prot-a-1724
rs987237	6	50803050	0.0409	-0.0017	0.0021	0.0027	795612	108557	0.0018	0.0315	0.955	3301	0.187	ieu-b-40	ieu-b-116	prot-a-1724
rs9951619	18	56882326	0.0156	0.0016	0.002	0.0023	772643	108557	0.0666	0.0301	0.0269	3301	0.779	ieu-b-40	ieu-b-116	prot-a-1724
rs998732	19	19378671	-0.0171	-0.0063	0.0022	0.0045	793852	108557	0.0064	0.0342	0.8511	3301	0.156	ieu-b-40	ieu-b-116	prot-a-1724
rs9989141	14	94006257	0.0162	-0.0012	0.0017	0.0022	752768	108557	-0.0395	0.0263	0.1318	3301	0.625	ieu-b-40	ieu-b-116	prot-a-1724
