

Supplementary Table 1. Genotyped SNPs.

Gene	SNP	Chr	Coordinate	# SNPs tagged / SNP function	Reason for exclusion
BRMS1	rs3116068	11	66104993	UTR-3	
BRMS1	rs1052566	11	66105194	Missense, Ala273Val	
BRMS1	rs948360	11	66106725	3	
BRMS1	rs11537993	11	66109033	2	
BRMS1	rs10896112	11	66116836	4	
BRMS1	rs4930355	11	66116911	2	LD; EA and AA
BRMS1/RIN1	rs1784029	11	66099987	14	LD; EA only
CD82	rs7126437	11	44595224	5	
CD82	rs17541041	11	44596817	2	
CD82	rs10769060	11	44601499	10	
CD82	rs730129	11	44603328	2	
CD82	rs744631	11	44604040	2	
CD82	rs2863107	11	44604181	4	
CD82	rs1981994	11	44608605	3	
CD82	rs934177	11	44612714	3	HWE
CD82	rs7946090	11	44614458	3	
CD82	rs7932712	11	44614583	2	
CD82	rs6485550	11	44615430	2	
CD82	rs3781750	11	44616040	8	
CD82	rs12290254	11	44624510	10	
CD82	rs11600829	11	44625493	18	
CD82	rs4755851	11	44626461	2	HWE
CD82	rs3758813	11	44628479	6	
CD82	rs3781753	11	44630049	8	
CD82	rs891303	11	44631845	2	Call rate
CD82	rs3758815	11	44634765	2	
CD82	rs12788360	11	44636684	3	
CD82	rs9971373	11	44639551	2	
CD82	rs2303861	11	44640016	2	
CD82	rs12421108	11	44640100	2	
CD82	rs1139971	11	44640268	2	
CD82	rs6485553	11	44644643	5	EA only; MAF
CD82	rs11038082	11	44644743	5	MAF
CD82/ALX4	rs12277918	11	44582660	2	EA only; MAF

CD82/ALX4	rs934178	11	44585933	4	
CDH1	rs9932773	16	68786857	2	EA only; MAF
CDH1	rs17772363	16	68788909	3	LD; EA only
CDH1	rs11642413	16	68790394	13	
CDH1	rs9941051	16	68795374	2	LD; EA only
CDH1	rs11075699	16	68802787	2	
CDH1	rs12597188	16	68814826	5	
CDH1	rs9929479	16	68821271	69	Call rate
CDH1	rs17715799	16	68830511	2	
CDH1	rs4783686	16	68834156	2	LD; EA only
CDH1	rs2011779	16	68837496	2	Call rate
CDH1	rs10431923	16	68839263	5	
CDH1	rs4783573	16	68840588	2	
CDH1	rs7188750	16	68842895	2	
CDH1	rs8056633	16	68847584	2	
CDH1	rs3785076	16	68850783	6	EA only; MAF
CDH1	rs16958383	16	68857000	3	
CDH1	rs9935563	16	68861656	5	
CDH1	rs9925080	16	68861864	3	EA only; MAF
CDH1	rs8061932	16	68862597	4	
CDH1	rs2276329	16	68863314	3	
CDH1	rs11863122	16	68864430	2	HWE
CDH1/CDH3	rs9940250	16	68766813	19	
CDH1/TMCO7	rs17690554	16	68869510	5	
CTNNB1	rs12492719	3	41245731	2	EA only; MAF
CTNNB1	rs9872966	3	41253341	6	EA only; MAF
CTNNB1	rs2140090	3	41254646	38	LD; EA and AA
CTNNB1	rs2293302	3	41274815	2	EA only; MAF
CTNNB1	rs78142768	3	41275176		Missense, Leu>Phe Call rate
CTNNB1	rs77750814	3	41278119		Missense, Asp658Glu Monomorphic
CTNNB1/ULK4	rs9883073	3	41284536	4	
KISS1	rs35431622	1	204159922		Missense, Gln36Arg EA only; MAF
KISS1	rs10158616	1	204162142	3	
KISS1	rs12097666	1	204162212	14	
KISS1	rs12568353	1	204164691	2	
KISS1	rs12086978	1	204164903	2	LD; EA only
KISS1	rs3924587	1	204165554	4	LD; EA and AA

KISS1	rs3795573	1	204167672	4	
KISS1/GOLT1A	rs56095702	1	204165981	Near gene-5	Call rate*
KISS1/REN	rs4951315	1	204157168	2	
KISS1/REN	rs12040249	1	204158228	2	LD; EA only
MTA1	rs8009536	14	105884423	3	EA only; MAF
MTA1	rs7492796	14	105888138	2	EA only; MAF
MTA1	rs10131764	14	105896857	6	EA only; MAF
MTA1	rs7144207	14	105899667	7	HWE
MTA1	rs7161158	14	105915288	6	EA only; MAF
MTA1	rs6576104	14	105919425	2	EA only; MAF
MTA1	rs6576106	14	105925265	11	Call rate
MTA1	rs9671696	14	105932544	2	HWE
MTA1/CRIP2	rs8008685	14	105938665	2	EA only; MAF
MTA2	rs1058678	11	62361037	UTR-3	Call rate
MTA2	rs2849031	11	62365665	2	LD; EA only
MTA2	rs11231156	11	62366454	9	
MTA2/EML3	rs2516633	11	62371773	2	
MTA3	rs72989185	2	42794533	Intron	MAF
MTA3	rs2132534	2	42803365	2	LD; EA only
MTA3	rs41515446	2	42808856	2	EA only; MAF
MTA3	rs6738967	2	42816170	2	
MTA3	rs6544575	2	42835440	2	
MTA3	rs10199169	2	42843233	67	HWE
MTA3	rs6742450	2	42859860	5	LD; EA only
MTA3	rs13404066	2	42860732	2	LD; EA only
MTA3	rs12712854	2	42861393	6	LD; EA only
MTA3	rs4953527	2	42870125	2	LD; AA only
MTA3	rs11900994	2	42876940	4	
MTA3	rs10195899	2	42881534	4	LD; EA only
MTA3	rs6749160	2	42892590	2	LD; EA only
MTA3	rs10865184	2	42895816	6	
MTA3	rs10187451	2	42901823	8	
MTA3	rs7600465	2	42907848	3	
MTA3	rs4953564	2	42912493	6	LD; EA and AA
MTA3	rs4953573	2	42934338	2	LD; EA and AA
MTA3	rs4953577	2	42935961	23	
MTA3/OXER1	rs4508645	2	42939257	2	

NME1	rs2318784	17	49239431	4	
NME1/NME2	rs11868380	17	49233447	2	
NME1/NME2	rs2318785	17	49239518	2	Call rate
NME1/SPAG9	rs16949649	17	49230308	2	
NME1/SPAG9	rs2302254	17	49230900	9	
SATB1	rs12630303	3	18392551	5	
SATB1	rs9852969	3	18395010	4	
SATB1	rs4129096	3	18400621	2	
SATB1	rs3922895	3	18402591	4	EA only; MAF
SATB1	rs9714216	3	18404066	2	
SATB1	rs9310551	3	18407174	3	
SATB1	rs9879688	3	18409067	5	EA only; MAF
SATB1	rs11720566	3	18409579	3	
SATB1	rs9714119	3	18412358	2	
SATB1	rs9849722	3	18419411	35	
SATB1	rs12106735	3	18421719	15	
SATB1	rs11926449	3	18433514	3	EA only; MAF
SATB1	rs9858924	3	18435601	21	LD; EA only
SATB1	rs11712525	3	18439331	3	
SATB1	rs1359995	3	18451687	24	HWE
SATB1	rs9713269	3	18453843	4	LD; EA and AA
SATB1	rs6772650	3	18459364	2	EA only; MAF
SATB1	rs9874770	3	18459579	3	MAF
SATB1	rs1475469	3	18459926	4	
SATB1	rs6550461	3	18468523	2	
SATB1	rs1359994	3	18468771	2	EA only; MAF
SATB1/TBC1D5	rs7434191	3	18385732	2	
SATB1/TBC1D5	rs6577639	3	18385798	2	
SATB1/TBC1D5	rs7426741	3	18387333	2	EA only; MAF
SATB1/TBC1D5	rs3935618	3	18389210	3	AA only; MAF
SIPA1	rs2509948	11	65406393	8	LD; EA only
SIPA1	rs11827943	11	65406938		Near gene-5 MAF/Call rate*
SIPA1	rs3741378	11	65408937		Missense, Ser182Phe
SIPA1	rs2306364	11	65412467		Synonymous, Ala342Ala LD; AA only
SIPA1	rs75894763	11	65414368		Synonymous, Val621Val MAF
SIPA1	rs746429	11	65417434	3	HWE
SIPA1/PCNXL3	rs931127	11	65405300	4	

SIPA1/RELA	rs10896027	11	65420760	2	
SIPA1/RELA	rs11227247	11	65422853	4	LD; EA only
SNAII	rs4647955	20	48599561	UTR-5	LD; EA and AA
SNAII	rs6020177	20	48603324	19	
SNAII	rs6091080	20	48603887	5	
SNAII	rs1543442	20	48604799	2	
SNAII	rs1047920	20	48605107	2	
SNAII	rs16995019	20	48607748	2	
SNAII	rs6067309	20	48610293	3	

HWE=Hardy-Weinberg Equilibrium; MAF=minor allele frequency; UTR=untranslated region.

154 SNPs were genotyped in EA and AA participants. The number of SNPs tagged by a given tag SNP or the SNP function/region for candidate SNPs are shown. 22 SNPs were excluded from further analysis of EA and AA participants for the following reasons: monomorphic, violation of HWE ($p < 0.00001$), call rate $< 98\%$ in EA and/or AA controls, or MAF $< 5\%$ in EA and AA controls. SNPs were also excluded from further analyses in EA or AA participants if the MAF in controls for that group was $< 5\%$ or for LD filtering as described. After exclusions, 87 and 122 SNPs remained for analysis in EA and AA participants, respectively.

*Most SNPs excluded due to call rate were missing $\geq 10\%$ genotype data; rs56095702 had 2.3% missing data in EA and AA controls, while rs11827943 was missing 2.6% in AA controls and had MAF $< 5\%$ in EA controls. All remaining SNPs had $< 2\%$ missing genotype data.

Supplementary Table 2. Allele and genotype frequencies in European-American and African-American controls.

SNP	Allele Frequencies						P ^a	P ^b	Genotype	Genotype Frequencies				P ^c	P ^d
	EA			AA						EA		AA			
	A1, n	A2, n	MAF	A1, n	A2, n	MAF				N	%	N	%		
<i>KISS1/REN</i>															
rs4951315	408	890	0.314	818	660	0.447	<0.0001	<0.0001	AA	68	10.5	214	29.0	<0.0001	<0.0001
									AC	272	41.9	390	52.8		
									CC	309	47.6	135	18.3		
rs12040249	390	908	0.300	834	652	0.439	<0.0001	<0.0001	AA	64	9.9	243	32.7	<0.0001	<0.0001
									AG	262	40.4	348	46.8		
									GG	323	49.8	152	20.5		
<i>KISS1</i>															
rs35431622*	1250	48	0.037	1182	300	0.202	<0.0001	<0.0001	AA	602	92.8	475	64.1	<0.0001	<0.0001
									GA	46	7.1	232	31.3		
									GG	1	0.2	34	4.6		
rs10158616	119	1175	0.092	206	1278	0.139	0.0001	0.02	AA	9	1.4	11	1.5	0.0001	0.02
									AC	101	15.6	184	24.8		
									CC	537	83.0	547	73.7		
rs12097666	949	335	0.261	968	506	0.343	<0.0001	0.0004	AA	356	55.5	314	42.6	<0.0001	0.001
									GA	237	36.9	340	46.1		
									GG	49	7.6	83	11.3		
rs12568353	1143	155	0.119	1177	309	0.208	<0.0001	<0.0001	AA	500	77.0	466	62.7	<0.0001	<0.0001
									GA	143	22.0	245	33.0		
									GG	6	0.9	32	4.3		
rs12086978	143	1153	0.110	324	1162	0.218	<0.0001	<0.0001	AA	9	1.4	32	4.3	<0.0001	<0.0001
									AG	125	19.3	260	35.0		
									GG	514	79.3	451	60.7		
rs3924587	129	1169	0.099	188	1292	0.127	0.02	1.00	AA	9	1.4	11	1.5	0.04	1.00
									AG	111	17.1	166	22.4		
									GG	529	81.5	563	76.1		
rs3795573	1095	201	0.155	1086	396	0.267	<0.0001	<0.0001	AA	463	71.5	391	52.8	<0.0001	<0.0001
									GA	169	26.1	304	41.0		
									GG	16	2.5	46	6.2		
<i>MTA3</i>															
rs2132534	330	962	0.255	308	1176	0.208	0.003	0.37	AA	48	7.4	36	4.9	0.01	1.000
									AG	234	36.2	236	31.8		
									GG	364	56.3	470	63.3		
rs41515446*	2	1296	0.002	116	1368	0.078	<0.0001	<0.0001	AA	0	0.0	4	0.5	<0.0001	<0.0001

									AT	2	0.3	108	14.6		
									TT	647	99.7	630	84.9		
rs6738967	846	446	0.345	1062	422	0.284	0.001	0.09	AA	271	42.0	382	51.5	0.002	0.20
									GA	304	47.1	298	40.2		
									GG	71	11.0	62	8.4		
rs6544575	965	333	0.257	1301	183	0.123	<0.0001	<0.0001	AA	366	56.4	575	77.5	<0.0001	<0.0001
									GA	233	35.9	151	20.4		
									GG	50	7.7	16	2.2		
rs6742450	969	327	0.252	1264	222	0.149	<0.0001	<0.0001	AA	370	57.1	537	72.3	<0.0001	<0.0001
									GA	229	35.3	190	25.6		
									GG	49	7.6	16	2.2		
rs13404066	769	525	0.406	678	808	0.456	<0.0001	<0.0001	AA	232	35.9	165	22.2	<0.0001	<0.0001
									GA	305	47.1	348	46.8		
									GG	110	17.0	230	31.0		
rs12712854	327	969	0.252	168	1318	0.113	<0.0001	<0.0001	CC	49	7.6	9	1.2	<0.0001	<0.0001
									CG	229	35.3	150	20.2		
									GG	370	57.1	584	78.6		
rs4953527	459	839	0.354	710	774	0.478	<0.0001	<0.0001	AA	88	13.6	179	24.1	<0.0001	<0.0001
									AC	283	43.6	352	47.4		
									CC	278	42.8	211	28.4		
rs11900994	1029	269	0.207	1255	229	0.154	0.0003	0.04	AA	408	62.9	535	72.1	0.001	0.14
									GA	213	32.8	185	24.9		
									GG	28	4.3	22	3.0		
rs10195899	967	331	0.255	1192	292	0.197	0.0003	0.04	AA	367	56.5	488	65.8	0.002	0.20
									GA	233	35.9	216	29.1		
									GG	49	7.6	38	5.1		
rs6749160	339	959	0.261	139	1347	0.094	<0.0001	<0.0001	AA	51	7.9	5	0.7	<0.0001	<0.0001
									AG	237	36.5	129	17.4		
									GG	361	55.6	609	82.0		
rs10865184	235	1061	0.181	282	1200	0.190	0.56	1.00	AA	17	2.6	27	3.6	0.56	1.00
									AG	201	31.0	228	30.8		
									GG	430	66.4	486	65.6		
rs10187451	478	818	0.369	503	983	0.338	0.10	1.00	AA	97	15.0	92	12.4	0.25	1.00
									AC	284	43.8	319	42.9		
									CC	267	41.2	332	44.7		
rs7600465	149	1149	0.115	324	1158	0.219	<0.0001	<0.0001	CC	9	1.4	36	4.9	<0.0001	<0.0001
									CG	131	20.2	252	34.0		
									GG	509	78.4	453	61.1		
rs4953564	333	965	0.257	270	1216	0.182	<0.0001	0.0003	AA	50	7.7	35	4.7	<0.0001	0.002

									AG	233	35.9	200	26.9		
									GG	366	56.4	508	68.4		
rs4953573	781	515	0.397	1248	238	0.160	<0.0001	<0.0001	AA	249	38.4	532	71.6	<0.0001	<0.0001
									CA	283	43.7	184	24.8		
									CC	116	17.9	27	3.6		
rs4953577	781	515	0.397	1209	273	0.184	<0.0001	<0.0001	AA	250	38.6	502	67.7	<0.0001	<0.0001
									GA	281	43.4	205	27.7		
									GG	117	18.1	34	4.6		
MTA3/OXER1															
rs4508645	629	669	0.485	1117	369	0.248	<0.0001	<0.0001	AA	154	23.7	426	57.3	<0.0001	<0.0001
									GA	321	49.5	265	35.7		
									GG	174	26.8	52	7.0		
SATB1/TBC1D5															
rs7434191	623	675	0.480	388	1094	0.262	<0.0001	<0.0001	AA	136	21.0	46	6.2	<0.0001	<0.0001
									AC	351	54.1	296	39.9		
									CC	162	25.0	399	53.8		
rs6577639	509	789	0.392	683	803	0.460	0.0004	0.05	AA	100	15.4	155	20.9	0.002	0.20
									AG	309	47.6	373	50.2		
									GG	240	37.0	215	28.9		
rs7426741*	1293	3	0.002	1372	110	0.074	<0.0001	<0.0001	AA	645	99.5	638	86.1	<0.0001	<0.0001
									GA	3	0.5	96	13.0		
									GG	0	0.0	7	0.9		
rs3935618**	1161	137	0.106	1438	44	0.030	<0.0001	<0.0001	AA	516	79.5	698	94.2	<0.0001	<0.0001
									GA	129	19.9	42	5.7		
									GG	4	0.6	1	0.1		
SATB1															
rs12630303	701	597	0.460	266	1218	0.179	<0.0001	<0.0001	AA	193	29.7	26	3.5	<0.0001	<0.0001
									AG	315	48.5	214	28.8		
									GG	141	21.7	502	67.7		
rs9852969	555	743	0.428	272	1214	0.183	<0.0001	<0.0001	AA	123	19.0	25	3.4	<0.0001	<0.0001
									AG	309	47.6	222	29.9		
									GG	217	33.4	496	66.8		
rs4129096	386	910	0.298	184	1298	0.124	<0.0001	<0.0001	AA	52	8.0	5	0.7	<0.0001	<0.0001
									AC	282	43.5	174	23.5		
									CC	314	48.5	562	75.8		
rs3922895*	42	1256	0.032	250	1226	0.169	<0.0001	<0.0001	AA	3	0.5	29	3.9	<0.0001	<0.0001
									AT	36	5.5	192	26.0		
									TT	610	94.0	517	70.1		
rs9714216	792	506	0.390	1210	276	0.186	<0.0001	<0.0001	AA	240	37.0	483	65.0	<0.0001	<0.0001

									GA	312	48.1	244	32.8		
									GG	97	14.9	16	2.2		
rs9310551	240	1056	0.185	343	1143	0.231	0.003	0.44	CC	25	3.9	39	5.2	0.01	1.00
									CG	190	29.3	265	35.7		
									GG	433	66.8	439	59.1		
rs9879688*	39	1257	0.030	456	1030	0.307	<0.0001	<0.0001	AA	1	0.2	73	9.8	<0.0001	<0.0001
									AG	37	5.7	310	41.7		
									GG	610	94.1	360	48.5		
rs11720566	465	833	0.358	163	1319	0.110	<0.0001	<0.0001	AA	87	13.4	8	1.1	<0.0001	<0.0001
									AG	291	44.8	147	19.8		
									GG	271	41.8	586	79.1		
rs9714119	498	800	0.384	742	738	0.499	<0.0001	<0.0001	AA	99	15.3	184	24.9	<0.0001	<0.0001
									AG	300	46.2	374	50.5		
									GG	250	38.5	182	24.6		
rs9849722	564	712	0.442	654	808	0.447	0.79	1.00	AA	128	20.1	134	18.3	0.25	1.00
									AG	308	48.3	386	52.8		
									GG	202	31.7	211	28.9		
rs12106735	304	990	0.235	302	1182	0.204	0.05	1.00	AA	38	5.9	27	3.6	0.08	1.00
									AG	228	35.2	248	33.4		
									GG	381	58.9	467	62.9		
rs11926449*	1286	12	0.009	1253	231	0.156	<0.0001	<0.0001	AA	639	98.5	530	71.4	<0.0001	<0.0001
									GA	8	1.2	193	26.0		
									GG	2	0.3	19	2.6		
rs9858924	449	847	0.346	296	1188	0.199	<0.0001	<0.0001	AA	84	13.0	23	3.1	<0.0001	<0.0001
									AC	281	43.4	250	33.7		
									CC	283	43.7	469	63.2		
rs11712525	1036	258	0.199	1261	225	0.151	0.001	0.12	AA	416	64.3	537	72.3	0.004	0.56
									CA	204	31.5	187	25.2		
									CC	27	4.2	19	2.6		
rs9713269	446	848	0.345	257	1229	0.173	<0.0001	<0.0001	AA	82	12.7	20	2.7	<0.0001	<0.0001
									AG	282	43.6	217	29.2		
									GG	283	43.7	506	68.1		
rs6772650*	1	1295	0.001	166	1318	0.112	<0.0001	<0.0001	AA	0	0.0	12	1.6	<0.0001	<0.0001
									AG	1	0.2	142	19.1		
									GG	647	99.8	588	79.2		
rs1475469	1081	217	0.167	1046	438	0.295	<0.0001	<0.0001	AA	448	69.0	375	50.5	<0.0001	<0.0001
									CA	185	28.5	296	39.9		
									CC	16	2.5	71	9.6		
rs6550461	1030	268	0.206	1127	359	0.242	0.03	1.00	AA	413	63.6	431	58.0	0.09	1.00

										GA	204	31.4	265	35.7		
										GG	32	4.9	47	6.3		
rs1359994*	1289	9	0.007	1411	75	0.050	<0.0001	<0.0001		AA	640	98.6	670	90.2	<0.0001	<0.0001
										GA	9	1.4	71	9.6		
										GG	0	0.0	2	0.3		
<i>CTNNB1</i>																
rs12492719*	1253	45	0.035	1069	411	0.278	<0.0001	<0.0001		AA	606	93.4	383	51.8	<0.0001	<0.0001
										CA	41	6.3	303	40.9		
										CC	2	0.3	54	7.3		
rs9872966*	1294	4	0.003	1354	132	0.089	<0.0001	<0.0001		AA	645	99.4	614	82.6	<0.0001	<0.0001
										GA	4	0.6	126	17.0		
										GG	0	0.0	3	0.4		
rs2140090	553	743	0.427	480	1000	0.324	<0.0001	<0.0001		AA	120	18.5	87	11.8	<0.0001	<0.0001
										AC	313	48.3	306	41.4		
										CC	215	33.2	347	46.9		
rs2293302*	1282	16	0.012	1407	79	0.053	<0.0001	<0.0001		CC	633	97.5	667	89.8	<0.0001	<0.0001
										GC	16	2.5	73	9.8		
										GG	0	0.0	3	0.4		
<i>CTNNB1/ULK4</i>																
rs9883073	551	747	0.424	433	1049	0.292	<0.0001	<0.0001		AA	121	18.6	72	9.7	<0.0001	<0.0001
										AC	309	47.6	289	39.0		
										CC	219	33.7	380	51.3		
<i>CD82/ALX4</i>																
rs12277918*	0	1296	0.000	153	1333	0.103	<0.0001	<0.0001		CC	0	0.0	2	0.3	<0.0001	<0.0001
										CG	0	0.0	149	20.1		
										GG	648	100.0	592	79.7		
rs934178	612	686	0.471	529	955	0.356	<0.0001	<0.0001		AA	159	24.5	91	12.3	<0.0001	<0.0001
										AG	294	45.3	347	46.8		
										GG	196	30.2	304	41.0		
<i>CD82</i>																
rs7126437	923	373	0.288	835	643	0.435	<0.0001	<0.0001		AA	333	51.4	235	31.8	<0.0001	<0.0001
										GA	257	39.7	365	49.4		
										GG	58	9.0	139	18.8		
rs17541041	1064	234	0.180	1258	224	0.151	0.04	1.00		AA	442	68.1	539	72.7	0.13	1.00
										GA	180	27.7	180	24.3		
										GG	27	4.2	22	3.0		
rs10769060	551	747	0.424	417	1067	0.281	<0.0001	<0.0001		AA	131	20.2	58	7.8	<0.0001	<0.0001
										AT	289	44.5	301	40.6		
										TT	229	35.3	383	51.6		

rs730129	342	956	0.263	561	915	0.380	<0.0001	<0.0001	AA	49	7.6	105	14.2	<0.0001	<0.0001
									AG	244	37.6	351	47.6		
									GG	356	54.9	282	38.2		
rs744631	448	850	0.345	413	1073	0.278	0.0001	0.02	CC	83	12.8	62	8.3	0.001	0.12
									CG	282	43.5	289	38.9		
									GG	284	43.8	392	52.8		
rs2863107	130	1164	0.100	153	1327	0.103	0.85	1.00	AA	12	1.9	10	1.4	0.58	1.00
									AG	106	16.4	133	18.0		
									GG	529	81.8	597	80.7		
rs1981994	985	313	0.241	990	494	0.333	<0.0001	<0.0001	CC	379	58.4	322	43.4	<0.0001	<0.0001
									GC	227	35.0	346	46.6		
									GG	43	6.6	74	10.0		
rs7946090	192	1104	0.148	124	1362	0.083	<0.0001	<0.0001	AA	20	3.1	5	0.7	<0.0001	0.0001
									AG	152	23.5	114	15.3		
									GG	476	73.5	624	84.0		
rs7932712	467	829	0.360	503	979	0.339	0.26	1.00	AA	87	13.4	82	11.1	0.39	1.00
									AG	293	45.2	339	45.7		
									GG	268	41.4	320	43.2		
rs6485550	466	824	0.361	459	1025	0.309	0.004	0.54	AA	85	13.2	67	9.0	0.012	1.00
									AG	296	45.9	325	43.8		
									GG	264	40.9	350	47.2		
rs3781750	172	1126	0.133	146	1338	0.098	0.01	0.66	AA	9	1.4	7	0.9	0.02	1.00
									AT	154	23.7	132	17.8		
									TT	486	74.9	603	81.3		
rs12290254	260	1038	0.200	412	1074	0.277	<0.0001	0.0003	AA	32	4.9	66	8.9	<0.0001	0.004
									AG	196	30.2	280	37.7		
									GG	421	64.9	397	53.4		
rs11600829	1008	290	0.223	1227	257	0.173	0.001	0.13	AA	392	60.4	513	69.1	0.003	0.39
									GA	224	34.5	201	27.1		
									GG	33	5.1	28	3.8		
rs3758813	554	744	0.427	895	589	0.397	<0.0001	<0.0001	AA	119	18.3	275	37.1	<0.0001	<0.0001
									GA	316	48.7	345	46.5		
									GG	214	33.0	122	16.4		
rs3781753	517	777	0.400	314	1172	0.211	<0.0001	<0.0001	AA	112	17.3	38	5.1	<0.0001	<0.0001
									AG	293	45.3	238	32.0		
									GG	242	37.4	467	62.9		
rs3758815	351	943	0.271	203	1279	0.137	<0.0001	<0.0001	AA	56	8.7	17	2.3	<0.0001	<0.0001
									AT	239	36.9	169	22.8		
									TT	352	54.4	555	74.9		

rs12788360	386	912	0.297	172	1314	0.116	<0.0001	<0.0001	AA	62	9.6	11	1.5	<0.0001	<0.0001
									AC	262	40.4	150	20.2		
									CC	325	50.1	582	78.3		
rs9971373	863	435	0.335	964	520	0.350	0.40	1.00	AA	294	45.3	318	42.9	0.66	1.00
									GA	275	42.4	328	44.2		
									GG	80	12.3	96	12.9		
rs2303861	323	971	0.250	391	1095	0.263	0.43	1.00	AA	40	6.2	49	6.6	0.69	1.00
									AG	243	37.6	293	39.4		
									GG	364	56.3	401	54.0		
rs12421108	122	1176	0.094	152	1334	0.102	0.48	1.00	AA	5	0.8	8	1.1	0.73	1.00
									AG	112	17.3	136	18.3		
									GG	532	82.0	599	80.6		
rs1139971	414	882	0.319	841	641	0.433	<0.0001	<0.0001	AA	70	10.8	231	31.2	<0.0001	<0.0001
									AG	274	42.3	379	51.1		
									GG	304	46.9	131	17.7		
rs6485553*	0	1298	0.000	198	1286	0.133	<0.0001	<0.0001	AA	0	0.0	12	1.6	<0.0001	<0.0001
									AC	0	0.0	174	23.5		
									CC	649	100.0	556	74.9		
MTA2															
rs2849031	847	451	0.347	867	619	0.417	0.0002	0.03	AA	274	42.2	242	32.6	0.001	0.07
									GA	299	46.1	383	51.5		
									GG	76	11.7	118	15.9		
rs11231156	441	855	0.340	185	1301	0.124	<0.0001	<0.0001	AA	70	10.8	12	1.6	<0.0001	<0.0001
									AG	301	46.5	161	21.7		
									GG	277	42.7	570	76.7		
MTA2/EML3															
rs2516633	355	943	0.273	457	1029	0.308	0.05	1.00	AA	47	7.2	66	8.9	0.13	1.00
									AC	261	40.2	325	43.7		
									CC	341	52.5	352	47.4		
SIPAI/PCNXL3															
rs931127	703	591	0.457	542	940	0.366	<0.0001	<0.0001	AA	202	31.2	93	12.6	<0.0001	<0.0001
									AG	299	46.2	356	48.0		
									GG	146	22.6	292	39.4		
SIPAI															
rs2509948	436	850	0.339	231	1239	0.157	<0.0001	<0.0001	AA	57	8.9	23	3.1	<0.0001	<0.0001
									AG	322	50.1	185	25.2		
									GG	264	41.1	527	71.7		
rs3741378	164	1124	0.127	406	1068	0.275	<0.0001	<0.0001	AA	7	1.1	47	6.4	<0.0001	<0.0001
									AG	150	23.3	312	42.3		

rs2306364	549	741	0.426	504	976	0.341	<0.0001	0.001	GG	487	75.6	378	51.3		
									AA	116	18.0	84	11.4	<0.0001	0.003
									AG	317	49.1	336	45.4		
									GG	212	32.9	320	43.2		
SIPAI/RELA															
rs10896027	465	833	0.358	141	1345	0.095	<0.0001	<0.0001	CC	86	13.3	11	1.5	<0.0001	<0.0001
									CG	293	45.1	119	16.0		
									GG	270	41.6	613	82.5		
rs11227247	1137	157	0.121	1013	465	0.315	<0.0001	<0.0001	AA	499	77.1	350	47.4	<0.0001	<0.0001
									CA	139	21.5	313	42.4		
									CC	9	1.4	76	10.3		
BRMSI/RINI															
rs1784029	862	420	0.328	463	1019	0.312	<0.0001	<0.0001	AA	290	45.2	83	11.2	<0.0001	<0.0001
									AG	282	44.0	297	40.1		
									GG	69	10.8	361	48.7		
BRMSI															
rs3116068	293	1003	0.226	103	1375	0.070	<0.0001	<0.0001	AA	39	6.0	5	0.7	<0.0001	<0.0001
									AG	215	33.2	93	12.6		
									GG	394	60.8	641	86.7		
rs1052566	353	943	0.272	114	1372	0.077	<0.0001	<0.0001	AA	50	7.7	6	0.8	<0.0001	<0.0001
									AG	253	39.0	102	13.7		
									GG	345	53.2	635	85.5		
rs948360	112	1184	0.086	907	577	0.389	<0.0001	<0.0001	AA	5	0.8	282	38.0	<0.0001	<0.0001
									AG	102	15.7	343	46.2		
									GG	541	83.5	117	15.8		
rs11537993	854	444	0.342	1371	115	0.077	<0.0001	<0.0001	AA	285	43.9	632	85.1	<0.0001	<0.0001
									GA	284	43.8	107	14.4		
									GG	80	12.3	4	0.5		
rs10896112	875	423	0.326	813	671	0.452	<0.0001	<0.0001	CC	293	45.1	223	30.1	<0.0001	<0.0001
									GC	289	44.5	367	49.5		
									GG	67	10.3	152	20.5		
rs4930355	959	339	0.261	1375	111	0.075	<0.0001	<0.0001	AA	355	54.7	638	85.9	<0.0001	<0.0001
									GA	249	38.4	99	13.3		
									GG	45	6.9	6	0.8		
MTAI															
rs8009536*	1	1297	0.001	198	1286	0.133	<0.0001	<0.0001	AA	0	0.0	12	1.6	<0.0001	<0.0001
									AC	1	0.2	174	23.5		
									CC	648	99.8	556	74.9		
rs7492796*	1292	4	0.003	1139	345	0.232	<0.0001	<0.0001	AA	644	99.4	438	59.0	<0.0001	<0.0001

									GA	4	0.6	263	35.4		
									GG	0	0.0	41	5.5		
rs10131764*	5	1291	0.004	316	1168	0.213	<0.0001	<0.0001	AA	0	0.0	34	4.6	<0.0001	<0.0001
									AG	5	0.8	248	33.4		
									GG	643	99.2	460	62.0		
rs7161158*	1294	4	0.003	1350	136	0.092	<0.0001	<0.0001	AA	645	99.4	612	82.4	<0.0001	<0.0001
									GA	4	0.6	126	17.0		
									GG	0	0.0	5	0.7		
rs6576104*	1286	10	0.008	1100	386	0.260	<0.0001	<0.0001	AA	638	98.5	414	55.7	<0.0001	<0.0001
									GA	10	1.5	272	36.6		
									GG	0	0.0	57	7.7		
<i>MTAI/CRIP2</i>															
rs8008685*	5	1287	0.004	124	1360	0.084	<0.0001	<0.0001	AA	0	0.0	0	0.0	<0.0001	<0.0001
									AG	5	0.8	124	16.7		
									GG	641	99.2	618	83.3		
<i>CDHI/CDH3</i>															
rs9940250	1155	139	0.107	951	527	0.357	<0.0001	<0.0001	AA	517	79.9	313	42.4	<0.0001	<0.0001
									GA	121	18.7	325	44.0		
									GG	9	1.4	101	13.7		
<i>CDHI</i>															
rs9932773*	1	1295	0.001	159	1325	0.107	<0.0001	<0.0001	AA	0	0.0	10	1.3	<0.0001	<0.0001
									AG	1	0.2	139	18.7		
									GG	647	99.8	593	79.9		
rs17772363	383	915	0.295	214	1270	0.144	<0.0001	<0.0001	AA	64	9.9	21	2.8	<0.0001	<0.0001
									AC	255	39.3	172	23.2		
									CC	330	50.8	549	74.0		
rs11642413	742	556	0.428	473	1013	0.318	<0.0001	<0.0001	AA	210	32.4	79	10.6	<0.0001	<0.0001
									AG	322	49.6	315	42.4		
									GG	117	18.0	349	47.0		
rs9941051	1166	130	0.100	1279	203	0.137	0.003	0.45	AA	525	81.0	550	74.2	0.01	1.00
									GA	116	17.9	179	24.2		
									GG	7	1.1	12	1.6		
rs11075699	762	516	0.404	1136	344	0.232	<0.0001	<0.0001	AA	228	35.7	438	59.2	<0.0001	<0.0001
									GA	306	47.9	260	35.1		
									GG	105	16.4	42	5.7		
rs12597188	458	840	0.353	470	1012	0.317	0.05	1.00	AA	88	13.6	81	10.9	0.15	1.00
									AG	282	43.5	308	41.6		
									GG	279	43.0	352	47.5		
rs17715799	413	881	0.319	328	1154	0.221	<0.0001	<0.0001	AA	72	11.1	38	5.1	<0.0001	<0.0001

									AT	269	41.6	252	34.0		
									TT	306	47.3	451	60.9		
rs4783686	414	878	0.320	149	1337	0.100	<0.0001	<0.0001	CC	74	11.5	12	1.6	<0.0001	<0.0001
									CG	266	41.2	125	16.8		
									GG	306	47.4	606	81.6		
rs10431923	651	645	0.498	441	1043	0.297	<0.0001	<0.0001	AA	169	26.1	69	9.3	<0.0001	<0.0001
									AC	313	48.3	303	40.8		
									CC	166	25.6	370	49.9		
rs4783573	897	399	0.308	629	855	0.424	<0.0001	<0.0001	AA	313	48.3	140	18.9	<0.0001	<0.0001
									GA	271	41.8	349	47.0		
									GG	64	9.9	253	34.1		
rs7188750	225	1073	0.173	569	917	0.383	<0.0001	<0.0001	AA	21	3.2	110	14.8	<0.0001	<0.0001
									AG	183	28.2	349	47.0		
									GG	445	68.6	284	38.2		
rs8056633	1015	283	0.218	492	994	0.331	<0.0001	<0.0001	AA	402	61.9	98	13.2	<0.0001	<0.0001
									CA	211	32.5	296	39.8		
									CC	36	5.5	349	47.0		
rs3785076*	1248	50	0.039	921	565	0.380	<0.0001	<0.0001	AA	600	92.4	296	39.8	<0.0001	<0.0001
									GA	48	7.4	329	44.3		
									GG	1	0.2	118	15.9		
rs16958383	205	1089	0.158	426	1058	0.287	<0.0001	<0.0001	AA	20	3.1	65	8.8	<0.0001	<0.0001
									AG	165	25.5	296	39.9		
									GG	462	71.4	381	51.3		
rs9935563	456	840	0.352	152	1332	0.102	<0.0001	<0.0001	AA	79	12.2	10	1.3	<0.0001	<0.0001
									AG	298	46.0	132	17.8		
									GG	271	41.8	600	80.9		
rs9925080*	45	1249	0.035	166	1320	0.112	<0.0001	<0.0001	AA	1	0.2	14	1.9	<0.0001	<0.0001
									AG	43	6.6	138	18.6		
									GG	603	93.2	591	79.5		
rs8061932	1055	237	0.183	671	811	0.453	<0.0001	<0.0001	AA	432	66.9	156	21.1	<0.0001	<0.0001
									GA	191	29.6	359	48.4		
									GG	23	3.6	226	30.5		
rs2276329	1201	95	0.073	1302	182	0.123	<0.0001	0.002	AA	556	85.8	572	77.1	0.0001	0.01
									GA	89	13.7	158	21.3		
									GG	3	0.5	12	1.6		
CDHI/TMCO7															
rs17690554	225	1071	0.174	232	1254	0.156	0.22	1.00	CC	17	2.6	21	2.8	0.27	1.00
									CG	191	29.5	190	25.6		
									GG	440	67.9	532	71.6		

<i>NME1/SPAG9</i>																
rs16949649	787	509	0.393	901	581	0.392	1.00	1.00	AA	234	36.1	272	36.7	0.92	1.00	
									GA	319	49.2	357	48.2			
									GG	95	14.7	112	15.1			
rs2302254	223	1067	0.173	454	1022	0.308	<0.0001	<0.0001	AA	21	3.3	81	11.0	<0.0001	<0.0001	
									AG	181	28.1	292	39.6			
									GG	443	68.7	365	49.5			
<i>NME1/NME2</i>																
rs11868380	1008	288	0.222	1359	127	0.085	<0.0001	<0.0001	CC	393	60.6	623	83.8	<0.0001	<0.0001	
									GC	222	34.3	113	15.2			
									GG	33	5.1	7	0.9			
<i>NME1</i>																
rs2318784	116	1178	0.090	152	1334	0.102	0.27	1.00	AA	1	0.2	8	1.1	0.09	1.00	
									AG	114	17.6	136	18.3			
									GG	532	82.2	599	80.6			
<i>SNAI1</i>																
rs4647955	202	1094	0.156	955	529	0.356	<0.0001	<0.0001	CC	19	2.9	314	42.3	<0.0001	<0.0001	
									CG	164	25.3	327	44.1			
									GG	465	71.8	101	13.6			
rs6020177	206	1092	0.159	943	537	0.363	<0.0001	<0.0001	AA	19	2.9	304	41.1	<0.0001	<0.0001	
									AG	168	25.9	335	45.3			
									GG	462	71.2	101	13.6			
rs6091080	301	997	0.232	591	893	0.398	<0.0001	<0.0001	CC	38	5.9	122	16.4	<0.0001	<0.0001	
									CG	225	34.7	347	46.8			
									GG	386	59.5	273	36.8			
rs1543442	452	844	0.349	249	1235	0.168	<0.0001	<0.0001	AA	80	12.3	22	3.0	<0.0001	<0.0001	
									AG	292	45.1	205	27.6			
									GG	276	42.6	515	69.4			
rs1047920	112	1186	0.086	218	1268	0.147	<0.0001	0.0001	AA	5	0.8	15	2.0	<0.0001	0.001	
									AG	102	15.7	188	25.3			
									GG	542	83.5	540	72.7			
rs16995019	88	1210	0.068	259	1221	0.175	<0.0001	<0.0001	AA	1	0.2	14	1.9	<0.0001	<0.0001	
									AG	86	13.3	231	31.2			
									GG	562	86.6	495	66.9			
rs6067309	770	524	0.405	1286	198	0.133	<0.0001	<0.0001	AA	236	36.5	556	74.9	<0.0001	<0.0001	
									GA	298	46.1	174	23.5			
									GG	113	17.5	12	1.6			

Comparisons of allele frequencies and genotype frequencies were restricted to controls. P-values were obtained from chi-squared and Fisher's exact tests and corrected using the Bonferroni method.

* and ** denote SNPs that were excluded from multimarker analyses in EA and AA, respectively, because of minor allele frequency (MAF) < 0.05.

^aP-value for the comparison of allele frequencies between European-American (EA) and African-American (AA) controls.

^bBonferroni corrected p-value for allele frequency comparisons.

^cP-value for the comparison of genotype frequencies between EA and AA controls.

^dBonferroni corrected p-value for genotype frequency comparisons.

Supplementary Table 3. Associations between SNPs and risk of breast cancer, among all cases and stratified by ER status, in European-American and African-American women.

SNP	Model	All Cases vs Controls		ER Positive Cases vs Controls		ER Negative Cases vs Controls		ER Negative vs ER Positive Cases	
		EA	AA	EA	AA	EA	AA	EA	AA
		OR (95% CI)	OR (95% CI)	OR (95% CI)	OR (95% CI)	OR (95% CI)	OR (95% CI)	OR (95% CI)	OR (95% CI)
<i>KISS1/REN</i>									
rs4951315	Per copy	1.07 (0.90-1.27)	0.94 (0.80-1.10)	1.02 (0.84-1.24)	1.00 (0.82-1.21)	1.25 (0.89-1.76)	0.77 (0.59-1.00)	1.27 (0.87-1.84)	0.79 (0.60-1.04)
	Dominant	1.15 (0.92-1.44)	0.85 (0.65-1.13)	1.12 (0.86-1.45)	0.87 (0.62-1.22)	1.68 (1.04-2.73)	0.62 (0.41-0.95)	1.51 (0.91-2.49)	0.73 (0.46-1.16)
rs12040249†	Per copy	1.04 (0.88-1.23)	0.97 (0.83-1.14)	1.01 (0.83-1.22)	0.95 (0.79-1.15)	1.15 (0.81-1.62)	0.84 (0.65-1.08)	1.17 (0.82-1.67)	0.87 (0.65-1.17)
	Dominant	1.07 (0.86-1.34)	1.22 (0.92-1.61)	1.01 (0.78-1.30)	1.00 (0.72-1.38)	1.42 (0.89-2.27)	1.25 (0.78-1.99)	1.44 (0.88-2.33)	1.24 (0.74-2.07)
<i>KISS1</i>									
rs35431622*	Per copy	1.46 (0.99-2.15)	1.07 (0.89-1.29)	1.43 (0.92-2.20)	1.02 (0.81-1.28)	1.18 (0.53-2.66)	1.06 (0.78-1.43)	0.90 (0.42-1.94)	1.04 (0.75-1.44)
	Dominant	1.47 (0.98-2.20)	1.06 (0.85-1.33)	1.40 (0.89-2.22)	0.98 (0.74-1.29)	1.22 (0.53-2.79)	1.05 (0.73-1.52)	0.95 (0.43-2.12)	1.08 (0.72-1.61)
rs10158616	Per copy	1.23 (0.95-1.60)	1.05 (0.84-1.31)	1.16 (0.86-1.56)	1.19 (0.92-1.54)	1.56 (0.97-2.49)	0.95 (0.66-1.38)	1.37 (0.81-2.29)	0.81 (0.55-1.19)
	Dominant	1.34 (1.01-1.78)	1.02 (0.80-1.30)	1.26 (0.91-1.75)	1.11 (0.83-1.49)	1.77 (1.04-3.02)	0.95 (0.64-1.42)	1.37 (0.79-2.37)	0.86 (0.55-1.33)
rs12097666	Per copy	0.98 (0.82-1.17)	0.95 (0.81-1.13)	0.92 (0.75-1.14)	0.99 (0.81-1.21)	1.21 (0.85-1.73)	0.74 (0.56-0.98)	1.38 (0.94-2.02)	0.76 (0.55-1.04)
	Dominant	1.01 (0.81-1.27)	1.00 (0.81-1.25)	0.96 (0.74-1.24)	1.01 (0.78-1.32)	1.41 (0.88-2.25)	0.80 (0.56-1.13)	1.52 (0.94-2.47)	0.81 (0.55-1.20)
rs12568353	Per copy	0.98 (0.77-1.25)	1.09 (0.90-1.32)	0.97 (0.73-1.30)	1.16 (0.92-1.45)	1.38 (0.87-2.19)	0.81 (0.59-1.13)	1.43 (0.89-2.30)	0.70 (0.49-1.01)
	Dominant	0.95 (0.73-1.23)	1.17 (0.94-1.46)	0.95 (0.70-1.30)	1.25 (0.95-1.63)	1.30 (0.77-2.18)	0.84 (0.58-1.22)	1.38 (0.81-2.37)	0.69 (0.46-1.03)
rs12086978†	Per copy	1.17 (0.92-1.49)	1.01 (0.83-1.21)	1.13 (0.85-1.49)	0.97 (0.77-1.22)	1.39 (0.87-2.22)	0.96 (0.71-1.31)	1.23 (0.74-2.03)	1.01 (0.72-1.43)
	Dominant	1.23 (0.94-1.60)	1.01 (0.81-1.26)	1.19 (0.88-1.62)	0.96 (0.74-1.26)	1.51 (0.90-2.55)	0.97 (0.67-1.39)	1.24 (0.72-2.12)	1.02 (0.69-1.52)
rs3924587†/††	Per copy	1.14 (0.88-1.47)	1.02 (0.82-1.28)	1.08 (0.81-1.46)	1.09 (0.84-1.43)	1.24 (0.76-2.03)	0.99 (0.67-1.44)	1.13 (0.66-1.93)	0.91 (0.61-1.35)
	Dominant	1.21 (0.92-1.60)	0.99 (0.77-1.27)	1.17 (0.85-1.61)	1.01 (0.74-1.38)	1.32 (0.76-2.30)	0.98 (0.65-1.49)	1.10 (0.62-1.95)	0.98 (0.62-1.55)
rs3795573	Per copy	1.10 (0.89-1.36)	1.05 (0.89-1.25)	1.02 (0.79-1.31)	1.05 (0.84-1.30)	1.48 (0.99-2.21)	1.07 (0.80-1.42)	1.46 (0.96-2.24)	1.04 (0.76-1.42)
	Dominant	1.13 (0.89-1.44)	1.04 (0.84-1.29)	1.06 (0.80-1.40)	1.03 (0.79-1.35)	1.48 (0.92-2.40)	1.10 (0.77-1.56)	1.37 (0.83-2.25)	1.09 (0.74-1.61)
<i>MTA3</i>									
rs2132534†	Per copy	1.04 (0.87-1.24)	1.16 (0.96-1.39)	1.17 (0.95-1.43)	1.10 (0.87-1.37)	0.89 (0.61-1.31)	1.24 (0.93-1.66)	0.74 (0.49-1.11)	1.15 (0.82-1.61)
	Dominant	1.10 (0.88-1.38)	1.23 (0.98-1.53)	1.27 (0.98-1.64)	1.20 (0.92-1.58)	0.92 (0.57-1.48)	1.34 (0.94-1.92)	0.70 (0.43-1.14)	1.11 (0.75-1.64)
rs41515446*	Per copy	0.78 (0.10-6.00)	0.87 (0.65-1.17)	1.40 (0.19-10.5)	0.75 (0.51-1.09)	NA	0.97 (0.60-1.54)	NA	1.30 (0.76-2.20)
	Dominant	0.78 (0.10-6.00)	0.86 (0.63-1.18)	1.40 (0.19-10.5)	0.72 (0.48-1.08)	NA	0.96 (0.58-1.58)	NA	1.35 (0.76-2.40)
rs6738967	Per copy	1.02 (0.86-1.20)	1.06 (0.89-1.25)	0.96 (0.79-1.16)	1.13 (0.92-1.38)	0.97 (0.68-1.37)	0.86 (0.64-1.14)	1.04 (0.74-1.47)	0.76 (0.55-1.04)
	Dominant	0.96 (0.77-1.21)	1.10 (0.89-1.37)	0.87 (0.67-1.13)	1.17 (0.90-1.52)	0.81 (0.51-1.29)	0.91 (0.64-1.30)	0.95 (0.59-1.53)	0.78 (0.53-1.15)
rs6544575	Per copy	1.04 (0.87-1.24)	1.24 (1.00-1.54)	1.15 (0.94-1.42)	1.16 (0.89-1.52)	0.89 (0.61-1.31)	1.27 (0.90-1.80)	0.74 (0.49-1.12)	1.10 (0.74-1.63)
	Dominant	1.11 (0.89-1.39)	1.31 (1.02-1.68)	1.28 (0.99-1.66)	1.22 (0.90-1.66)	0.92 (0.57-1.48)	1.42 (0.95-2.11)	0.70 (0.43-1.14)	1.16 (0.75-1.79)
rs6742450†	Per copy	1.04 (0.87-1.24)	1.05 (0.85-1.30)	1.15 (0.94-1.41)	1.00 (0.76-1.30)	0.91 (0.62-1.33)	1.19 (0.85-1.68)	0.76 (0.51-1.15)	1.20 (0.82-1.77)
	Dominant	1.12 (0.90-1.41)	1.06 (0.84-1.35)	1.28 (0.99-1.66)	1.01 (0.75-1.36)	0.95 (0.59-1.52)	1.26 (0.86-1.85)	0.72 (0.44-1.17)	1.24 (0.81-1.90)
rs13404066†	Per copy	0.96 (0.82-1.12)	0.90 (0.77-1.05)	0.96 (0.79-1.15)	0.93 (0.77-1.12)	1.11 (0.81-1.54)	0.96 (0.75-1.23)	1.14 (0.81-1.59)	1.05 (0.80-1.39)
	Dominant	0.94 (0.74-1.18)	0.97 (0.75-1.26)	0.92 (0.70-1.20)	1.02 (0.74-1.40)	0.97 (0.60-1.56)	1.07 (0.69-1.65)	1.02 (0.62-1.68)	1.07 (0.66-1.72)
rs12712854†	Per copy	1.04 (0.87-1.25)	1.08 (0.85-1.37)	1.16 (0.94-1.43)	1.02 (0.76-1.37)	0.91 (0.62-1.33)	1.12 (0.76-1.66)	0.75 (0.50-1.14)	1.10 (0.71-1.71)
	Dominant	1.13 (0.90-1.41)	1.09 (0.84-1.42)	1.30 (1.00-1.68)	1.04 (0.75-1.43)	0.95 (0.59-1.52)	1.18 (0.77-1.80)	0.71 (0.43-1.15)	1.12 (0.71-1.79)
rs4953527††	Per copy	0.98 (0.84-1.15)	0.91 (0.78-1.06)	0.94 (0.78-1.13)	0.91 (0.76-1.10)	1.21 (0.88-1.67)	0.98 (0.77-1.25)	1.25 (0.90-1.74)	1.08 (0.82-1.42)
	Dominant	0.96 (0.77-1.20)	0.95 (0.75-1.20)	0.90 (0.69-1.16)	0.96 (0.71-1.28)	1.06 (0.66-1.69)	0.97 (0.66-1.44)	1.14 (0.70-1.85)	1.02 (0.67-1.57)

rs11900994	Per copy	1.17 (0.97-1.41)	0.86 (0.69-1.07)	1.24 (1.00-1.54)	1.03 (0.80-1.33)	1.08 (0.73-1.60)	0.71 (0.49-1.05)	0.91 (0.61-1.34)	0.70 (0.46-1.06)	
	Dominant	1.14 (0.91-1.43)	0.88 (0.69-1.12)	1.22 (0.94-1.59)	1.09 (0.82-1.46)	0.93 (0.57-1.51)	0.67 (0.44-1.03)	0.77 (0.47-1.27)	0.64 (0.40-1.01)	
rs10195899†	Per copy	1.01 (0.85-1.21)	1.18 (0.98-1.42)	1.13 (0.92-1.39)	1.08 (0.86-1.35)	0.87 (0.59-1.27)	1.28 (0.96-1.70)	0.74 (0.49-1.12)	1.20 (0.86-1.68)	
	Dominant	1.08 (0.87-1.35)	1.30 (1.04-1.62)	1.24 (0.96-1.61)	1.23 (0.94-1.61)	0.88 (0.55-1.41)	1.33 (0.92-1.91)	0.69 (0.42-1.13)	1.06 (0.71-1.57)	
rs6749160†	Per copy	1.00 (0.84-1.19)	1.11 (0.86-1.44)	1.11 (0.90-1.36)	1.07 (0.78-1.48)	0.87 (0.59-1.27)	1.14 (0.74-1.74)	0.76 (0.50-1.15)	1.04 (0.65-1.66)	
	Dominant	1.00 (0.85-1.34)	1.09 (0.82-1.44)	1.24 (0.95-1.60)	1.08 (0.77-1.52)	0.89 (0.56-1.43)	1.10 (0.70-1.75)	0.71 (0.43-1.15)	1.00 (0.60-1.64)	
rs10865184	Per copy	1.15 (0.94-1.41)	0.96 (0.79-1.17)	1.19 (0.94-1.50)	1.00 (0.79-1.26)	1.15 (0.76-1.76)	0.82 (0.59-1.15)	0.98 (0.65-1.50)	0.82 (0.58-1.18)	
	Dominant	1.14 (0.91-1.44)	0.94 (0.75-1.18)	1.16 (0.88-1.52)	0.98 (0.75-1.30)	1.14 (0.70-1.84)	0.75 (0.51-1.11)	1.00 (0.61-1.65)	0.76 (0.50-1.16)	
rs10187451	Per copy	1.01 (0.86-1.19)	0.92 (0.78-1.08)	1.14 (0.95-1.37)	0.87 (0.71-1.06)	0.85 (0.60-1.19)	1.04 (0.80-1.34)	0.71 (0.49-1.03)	1.22 (0.91-1.63)	
	Dominant	1.09 (0.87-1.36)	0.94 (0.76-1.17)	1.27 (0.98-1.66)	0.85 (0.65-1.10)	0.93 (0.58-1.49)	1.10 (0.77-1.57)	0.71 (0.43-1.15)	1.35 (0.91-2.00)	
rs7600465	Per copy	0.97 (0.76-1.24)	0.83 (0.68-1.00)	0.95 (0.71-1.26)	0.78 (0.61-0.99)	0.88 (0.52-1.51)	0.97 (0.71-1.31)	0.92 (0.54-1.55)	1.27 (0.90-1.80)	
	Dominant	0.92 (0.70-1.21)	0.85 (0.68-1.06)	0.86 (0.63-1.19)	0.79 (0.60-1.05)	0.87 (0.48-1.55)	0.96 (0.67-1.38)	0.97 (0.53-1.78)	1.24 (0.83-1.86)	
rs4953564†/††	Per copy	1.05 (0.88-1.26)	1.09 (0.90-1.32)	1.17 (0.95-1.43)	1.01 (0.80-1.28)	0.92 (0.63-1.35)	1.15 (0.85-1.55)	0.76 (0.50-1.14)	1.15 (0.80-1.63)	
	Dominant	1.13 (0.91-1.42)	1.18 (0.94-1.48)	1.31 (1.01-1.69)	1.14 (0.86-1.51)	0.97 (0.61-1.56)	1.22 (0.84-1.76)	0.72 (0.44-1.17)	1.06 (0.71-1.59)	
rs4953573†/††	Per copy	0.97 (0.83-1.13)	1.05 (0.85-1.29)	0.95 (0.79-1.14)	1.01 (0.79-1.30)	0.86 (0.61-1.19)	0.99 (0.71-1.39)	0.89 (0.62-1.27)	0.97 (0.66-1.42)	
	Dominant	1.06 (0.84-1.33)	1.11 (0.88-1.41)	1.03 (0.79-1.34)	1.09 (0.82-1.46)	1.01 (0.63-1.63)	1.00 (0.67-1.48)	0.98 (0.60-1.61)	0.90 (0.58-1.39)	
rs4953577	Per copy	0.97 (0.83-1.14)	1.03 (0.85-1.25)	0.96 (0.80-1.16)	1.06 (0.84-1.34)	0.87 (0.63-1.21)	1.00 (0.73-1.38)	0.91 (0.63-1.30)	0.94 (0.66-1.36)	
	Dominant	1.08 (0.86-1.36)	1.10 (0.87-1.38)	1.06 (0.81-1.38)	1.19 (0.90-1.57)	1.12 (0.69-1.82)	0.98 (0.67-1.44)	1.08 (0.65-1.78)	0.84 (0.55-1.27)	
MTA3/OXER1										
rs4508645	Per copy	0.99 (0.84-1.15)	1.10 (0.92-1.31)	0.98 (0.82-1.18)	1.12 (0.91-1.38)	0.99 (0.72-1.37)	1.07 (0.80-1.43)	1.01 (0.72-1.41)	0.93 (0.68-1.27)	
	Dominant	0.97 (0.75-1.25)	1.15 (0.93-1.44)	0.95 (0.71-1.29)	1.15 (0.88-1.50)	0.95 (0.56-1.63)	1.13 (0.79-1.62)	1.00 (0.57-1.75)	0.95 (0.64-1.41)	
SATB1/TBC1D5										
rs7434191	Per copy	0.95 (0.81-1.11)	1.01 (0.85-1.21)	0.90 (0.75-1.09)	1.02 (0.82-1.27)	0.88 (0.63-1.24)	0.83 (0.61-1.13)	0.97 (0.70-1.34)	0.82 (0.59-1.14)	
	Dominant	0.81 (0.63-1.04)	0.95 (0.76-1.18)	0.72 (0.54-0.96)	1.03 (0.79-1.34)	0.73 (0.44-1.21)	0.69 (0.47-0.99)	0.99 (0.59-1.65)	0.66 (0.44-0.99)	
rs6577639	Per copy	1.01 (0.87-1.19)	1.04 (0.89-1.21)	1.09 (0.91-1.31)	1.07 (0.89-1.29)	0.86 (0.61-1.21)	1.11 (0.87-1.43)	0.80 (0.57-1.12)	1.05 (0.80-1.38)	
	Dominant	0.96 (0.76-1.21)	1.00 (0.79-1.27)	1.00 (0.76-1.31)	1.11 (0.83-1.50)	0.73 (0.46-1.17)	1.02 (0.69-1.51)	0.73 (0.45-1.19)	0.93 (0.60-1.44)	
rs7426741*	Per copy	0.09 (0.01-0.68)	0.86 (0.64-1.15)	0.09 (0.01-1.19)	0.92 (0.64-1.31)	0.80 (0.06-11.5)	0.86 (0.53-1.39)	8.14 (0.38-173)	0.94 (0.55-1.61)	
	Dominant	0.08 (0.01-0.71)	0.84 (0.61-1.16)	0.09 (0.01-1.19)	0.93 (0.63-1.36)	0.80 (0.06-11.5)	0.86 (0.51-1.45)	8.14 (0.38-173)	0.93 (0.52-1.65)	
rs3935618**	Per copy	1.20 (0.94-1.55)	1.01 (0.64-1.58)	1.14 (0.85-1.53)	1.12 (0.66-1.90)	2.02 (1.27-3.20)	0.94 (0.43-2.02)	1.71 (1.07-2.74)	0.81 (0.35-1.88)	
	Dominant	1.18 (0.90-1.54)	1.04 (0.65-1.64)	1.11 (0.81-1.52)	1.16 (0.67-1.99)	2.15 (1.31-3.52)	0.96 (0.44-2.10)	1.91 (1.14-3.20)	0.81 (0.35-1.88)	
SATB1										
rs12630303	Per copy	1.02 (0.87-1.19)	1.07 (0.87-1.31)	0.99 (0.82-1.18)	1.11 (0.87-1.43)	1.24 (0.89-1.73)	0.93 (0.66-1.29)	1.23 (0.88-1.71)	0.84 (0.58-1.23)	
	Dominant	1.02 (0.78-1.34)	1.09 (0.86-1.38)	0.95 (0.70-1.30)	1.21 (0.91-1.61)	1.18 (0.66-2.11)	0.81 (0.54-1.20)	1.18 (0.66-2.12)	0.68 (0.44-1.05)	
rs9852969	Per copy	0.95 (0.82-1.11)	1.00 (0.82-1.22)	0.98 (0.82-1.18)	1.06 (0.84-1.35)	0.96 (0.69-1.33)	1.08 (0.79-1.49)	0.96 (0.69-1.34)	0.99 (0.69-1.41)	
	Dominant	0.90 (0.71-1.13)	1.05 (0.84-1.32)	0.97 (0.74-1.27)	1.12 (0.85-1.47)	0.83 (0.51-1.35)	1.15 (0.80-1.67)	0.85 (0.52-1.39)	1.00 (0.67-1.50)	
rs4129096	Per copy	0.98 (0.83-1.16)	1.03 (0.81-1.30)	0.95 (0.78-1.16)	1.12 (0.84-1.48)	1.38 (0.98-1.95)	0.83 (0.55-1.26)	1.39 (0.99-1.96)	0.78 (0.51-1.19)	
	Dominant	0.91 (0.73-1.13)	0.99 (0.77-1.28)	0.87 (0.68-1.13)	1.03 (0.76-1.41)	1.28 (0.80-2.04)	0.82 (0.53-1.27)	1.45 (0.90-2.35)	0.81 (0.51-1.30)	
rs3922895*	Per copy	1.24 (0.82-1.89)	0.90 (0.73-1.10)	1.06 (0.65-1.74)	0.93 (0.72-1.19)	0.86 (0.33-2.21)	1.00 (0.72-1.38)	0.85 (0.32-2.27)	1.08 (0.75-1.56)	
	Dominant	1.36 (0.88-2.11)	0.90 (0.71-1.15)	1.15 (0.68-1.94)	0.94 (0.71-1.26)	0.91 (0.33-2.48)	1.06 (0.72-1.55)	0.85 (0.32-2.27)	1.12 (0.73-1.71)	
rs9714216	Per copy	1.01 (0.86-1.18)	1.03 (0.84-1.26)	0.99 (0.82-1.19)	1.10 (0.86-1.40)	1.37 (0.99-1.91)	0.93 (0.66-1.31)	1.38 (0.98-1.93)	0.86 (0.60-1.23)	
	Dominant	0.99 (0.79-1.24)	1.00 (0.80-1.25)	0.98 (0.75-1.28)	1.04 (0.79-1.37)	1.20 (0.73-1.96)	0.91 (0.63-1.33)	1.22 (0.74-2.02)	0.89 (0.59-1.35)	
rs9310551	Per copy	1.05 (0.86-1.27)	1.02 (0.85-1.23)	1.12 (0.89-1.40)	0.93 (0.74-1.17)	0.85 (0.55-1.31)	1.00 (0.74-1.35)	0.78 (0.50-1.20)	1.07 (0.77-1.49)	
	Dominant	1.05 (0.83-1.32)	1.03 (0.83-1.28)	1.09 (0.83-1.43)	0.91 (0.70-1.19)	0.81 (0.49-1.34)	1.05 (0.74-1.51)	0.75 (0.45-1.27)	1.15 (0.77-1.71)	

rs9879688*	Per copy	1.08 (0.69-1.68)	0.93 (0.79-1.10)	0.82 (0.47-1.43)	0.99 (0.81-1.21)	1.08 (0.43-2.69)	1.12 (0.85-1.46)	1.31 (0.51-3.36)	1.12 (0.83-1.51)	
	Dominant	1.10 (0.70-1.74)	0.90 (0.72-1.12)	0.83 (0.47-1.46)	0.98 (0.75-1.28)	1.10 (0.43-2.81)	1.21 (0.84-1.73)	1.31 (0.51-3.36)	1.22 (0.82-1.81)	
rs11720566	Per copy	0.92 (0.78-1.08)	1.08 (0.85-1.38)	0.96 (0.79-1.15)	1.13 (0.84-1.51)	0.80 (0.57-1.14)	0.82 (0.53-1.27)	0.82 (0.58-1.17)	0.73 (0.46-1.17)	
	Dominant	0.89 (0.71-1.12)	1.04 (0.80-1.36)	0.91 (0.70-1.18)	1.12 (0.81-1.54)	0.74 (0.46-1.17)	0.73 (0.46-1.18)	0.78 (0.49-1.27)	0.65 (0.39-1.09)	
rs9714119	Per copy	1.07 (0.91-1.25)	1.02 (0.87-1.19)	1.00 (0.83-1.21)	1.12 (0.92-1.35)	1.27 (0.92-1.76)	1.05 (0.82-1.36)	1.30 (0.92-1.84)	0.94 (0.70-1.25)	
	Dominant	1.14 (0.91-1.43)	1.07 (0.83-1.38)	1.10 (0.84-1.43)	1.25 (0.91-1.73)	1.15 (0.71-1.86)	1.26 (0.81-1.95)	1.07 (0.65-1.76)	0.98 (0.60-1.60)	
rs9849722	Per copy	0.96 (0.82-1.13)	0.92 (0.79-1.08)	0.92 (0.77-1.10)	0.84 (0.69-1.03)	0.96 (0.69-1.33)	0.93 (0.72-1.21)	1.03 (0.74-1.44)	1.10 (0.83-1.47)	
	Dominant	0.98 (0.77-1.25)	0.88 (0.70-1.12)	0.87 (0.66-1.14)	0.79 (0.60-1.05)	1.06 (0.64-1.76)	0.95 (0.64-1.39)	1.21 (0.72-2.03)	1.18 (0.78-1.80)	
rs12106735	Per copy	0.93 (0.77-1.12)	0.95 (0.78-1.15)	0.93 (0.75-1.15)	0.88 (0.69-1.12)	0.95 (0.64-1.41)	0.91 (0.66-1.25)	0.99 (0.66-1.49)	1.03 (0.72-1.46)	
	Dominant	0.94 (0.75-1.17)	0.88 (0.70-1.10)	0.92 (0.71-1.20)	0.83 (0.63-1.10)	0.96 (0.60-1.55)	0.88 (0.61-1.28)	1.01 (0.62-1.65)	1.06 (0.70-1.60)	
rs11926449*	Per copy	0.47 (0.18-1.21)	0.91 (0.74-1.12)	0.31 (0.09-1.04)	0.97 (0.75-1.25)	0.35 (0.04-2.78)	0.88 (0.62-1.26)	1.02 (0.11-9.13)	0.91 (0.62-1.33)	
	Dominant	0.57 (0.21-1.57)	0.86 (0.67-1.09)	0.35 (0.09-1.35)	0.88 (0.66-1.19)	0.36 (0.03-4.02)	0.94 (0.64-1.40)	1.02 (0.11-9.13)	1.06 (0.68-1.63)	
rs9858924†	Per copy	1.09 (0.92-1.28)	1.08 (0.89-1.32)	1.06 (0.88-1.28)	1.13 (0.89-1.42)	1.37 (0.99-1.90)	0.91 (0.65-1.27)	1.32 (0.93-1.87)	0.82 (0.58-1.18)	
	Dominant	1.16 (0.92-1.45)	1.10 (0.88-1.37)	1.18 (0.91-1.53)	1.14 (0.87-1.49)	1.36 (0.84-2.19)	0.93 (0.64-1.35)	1.15 (0.70-1.88)	0.84 (0.56-1.25)	
rs11712525	Per copy	0.98 (0.81-1.20)	1.09 (0.88-1.34)	1.03 (0.82-1.29)	1.07 (0.83-1.38)	0.79 (0.51-1.22)	1.27 (0.92-1.76)	0.75 (0.48-1.18)	1.18 (0.82-1.69)	
	Dominant	0.98 (0.77-1.23)	1.11 (0.88-1.41)	1.04 (0.80-1.36)	1.10 (0.82-1.47)	0.79 (0.48-1.31)	1.28 (0.88-1.88)	0.74 (0.44-1.24)	1.17 (0.77-1.77)	
rs9713269†††	Per copy	1.10 (0.93-1.29)	1.12 (0.91-1.37)	1.08 (0.89-1.30)	1.18 (0.93-1.51)	1.39 (1.00-1.93)	0.86 (0.60-1.22)	1.32 (0.93-1.87)	0.74 (0.50-1.08)	
	Dominant	1.17 (0.93-1.46)	1.16 (0.92-1.46)	1.19 (0.92-1.55)	1.22 (0.92-1.61)	1.36 (0.84-2.19)	0.88 (0.60-1.30)	1.14 (0.70-1.87)	0.74 (0.49-1.13)	
rs6772650*	Per copy	1.74 (0.17-17.6)	0.92 (0.72-1.18)	0.90 (0.05-16.2)	0.96 (0.71-1.28)	4.97 (0.29-86.1)	0.88 (0.59-1.33)	3.20 (0.25-41.4)	0.92 (0.59-1.45)	
	Dominant	1.74 (0.17-17.6)	0.92 (0.70-1.21)	0.90 (0.05-16.2)	0.93 (0.67-1.30)	4.97 (0.29-86.1)	0.96 (0.62-1.48)	3.20 (0.25-41.4)	1.02 (0.63-1.66)	
rs1475469	Per copy	1.09 (0.88-1.35)	0.98 (0.83-1.16)	1.19 (0.93-1.52)	1.11 (0.91-1.36)	0.90 (0.56-1.42)	0.82 (0.62-1.08)	0.76 (0.47-1.25)	0.72 (0.52-0.99)	
	Dominant	1.13 (0.89-1.43)	1.03 (0.83-1.28)	1.27 (0.96-1.67)	1.17 (0.90-1.53)	0.92 (0.55-1.54)	0.89 (0.63-1.27)	0.75 (0.45-1.27)	0.75 (0.50-1.11)	
rs6550461	Per copy	0.97 (0.80-1.17)	1.03 (0.86-1.22)	0.87 (0.70-1.09)	0.99 (0.80-1.22)	0.95 (0.63-1.42)	1.23 (0.93-1.62)	1.07 (0.70-1.64)	1.25 (0.92-1.69)	
	Dominant	1.02 (0.81-1.28)	1.04 (0.83-1.29)	0.87 (0.67-1.14)	0.94 (0.72-1.23)	0.98 (0.61-1.59)	1.35 (0.95-1.92)	1.11 (0.67-1.82)	1.43 (0.97-2.12)	
rs1359994*	Per copy	0.67 (0.23-1.91)	1.01 (0.71-1.42)	0.36 (0.08-1.72)	1.19 (0.80-1.78)	1.95 (0.41-9.25)	0.63 (0.32-1.23)	4.39 (0.60-32.2)	0.54 (0.27-1.10)	
	Dominant	0.67 (0.23-1.91)	0.99 (0.68-1.42)	0.36 (0.08-1.72)	1.17 (0.76-1.80)	1.95 (0.41-9.25)	0.63 (0.32-1.27)	4.39 (0.60-32.2)	0.55 (0.26-1.14)	
CTNNB1										
rs12492719*	Per copy	1.17 (0.78-1.76)	1.00 (0.84-1.18)	1.21 (0.75-1.93)	0.90 (0.73-1.12)	0.85 (0.34-2.16)	1.23 (0.94-1.61)	0.79 (0.32-1.94)	1.38 (1.01-1.88)	
	Dominant	1.22 (0.79-1.88)	1.01 (0.82-1.26)	1.28 (0.79-2.10)	0.94 (0.72-1.22)	0.89 (0.34-2.35)	1.21 (0.84-1.72)	0.81 (0.32-2.05)	1.30 (0.88-1.92)	
rs9872966*	Per copy	2.96 (0.95-9.26)	1.17 (0.90-1.52)	3.42 (1.00-11.7)	1.04 (0.75-1.44)	2.15 (0.23-20.0)	1.18 (0.78-1.80)	0.64 (0.09-4.59)	1.12 (0.71-1.75)	
	Dominant	3.00 (0.94-9.58)	1.14 (0.87-1.51)	3.51 (1.00-12.3)	0.99 (0.70-1.41)	2.15 (0.23-20.0)	1.14 (0.73-1.79)	0.66 (0.08-5.45)	1.14 (0.69-1.88)	
rs2140090†††	Per copy	1.03 (0.88-1.21)	0.95 (0.81-1.12)	1.08 (0.90-1.30)	0.90 (0.74-1.10)	0.85 (0.61-1.19)	0.89 (0.68-1.17)	0.78 (0.55-1.11)	0.99 (0.73-1.34)	
	Dominant	1.03 (0.81-1.30)	1.00 (0.80-1.24)	1.14 (0.86-1.51)	0.91 (0.70-1.19)	0.78 (0.49-1.26)	0.93 (0.65-1.32)	0.70 (0.43-1.15)	1.03 (0.70-1.52)	
rs2293302*	Per copy	0.99 (0.48-2.01)	1.05 (0.75-1.46)	1.11 (0.50-2.45)	0.92 (0.60-1.41)	NA	1.09 (0.64-1.85)	NA	1.30 (0.71-2.38)	
	Dominant	0.99 (0.48-2.01)	1.06 (0.74-1.50)	1.11 (0.50-2.45)	0.92 (0.58-1.43)	NA	1.14 (0.66-1.98)	NA	1.36 (0.73-2.54)	
CTNNB1/ULK4										
rs9883073	Per copy	1.04 (0.89-1.22)	0.89 (0.75-1.06)	1.08 (0.90-1.30)	0.82 (0.67-1.01)	0.90 (0.65-1.26)	0.87 (0.66-1.15)	0.84 (0.59-1.18)	1.06 (0.77-1.45)	
	Dominant	1.05 (0.83-1.33)	0.94 (0.75-1.16)	1.14 (0.87-1.51)	0.81 (0.62-1.06)	0.85 (0.53-1.37)	0.92 (0.65-1.32)	0.75 (0.46-1.24)	1.15 (0.78-1.70)	
CD82/ALX4										
rs12277918*	Per copy	NA	0.98 (0.76-1.28)	NA	0.92 (0.66-1.27)	NA	1.27 (0.85-1.9)	4.37 (0.26-72.6)	1.38 (0.89-2.14)	
	Dominant	NA	0.95 (0.73-1.25)	NA	0.89 (0.64-1.25)	NA	1.22 (0.8-1.85)	4.37 (0.26-72.6)	1.38 (0.87-2.20)	
rs934178	Per copy	0.97 (0.83-1.13)	1.06 (0.90-1.25)	1.01 (0.85-1.21)	1.02 (0.83-1.24)	0.80 (0.58-1.10)	1.19 (0.91-1.54)	0.78 (0.55-1.11)	1.21 (0.90-1.63)	
	Dominant	1.12 (0.88-1.43)	1.13 (0.91-1.41)	1.21 (0.90-1.61)	1.05 (0.80-1.37)	0.93 (0.57-1.53)	1.20 (0.83-1.73)	0.79 (0.47-1.32)	1.20 (0.80-1.80)	

CD82									
rs7126437	Per copy	1.05 (0.89-1.25)	0.99 (0.85-1.16)	1.06 (0.87-1.29)	1.02 (0.84-1.23)	1.35 (0.97-1.89)	1.05 (0.81-1.35)	1.26 (0.89-1.79)	1.00 (0.75-1.34)
	Dominant	1.08 (0.86-1.34)	1.04 (0.82-1.31)	1.10 (0.85-1.43)	1.06 (0.80-1.42)	1.33 (0.83-2.11)	1.09 (0.74-1.61)	1.19 (0.73-1.92)	0.99 (0.64-1.52)
rs17541041	Per copy	0.80 (0.65-0.99)	0.86 (0.69-1.06)	0.72 (0.56-0.92)	0.87 (0.67-1.14)	0.91 (0.59-1.41)	0.71 (0.48-1.04)	1.26 (0.79-2.01)	0.80 (0.52-1.23)
	Dominant	0.82 (0.65-1.05)	0.87 (0.68-1.12)	0.72 (0.54-0.97)	0.93 (0.69-1.26)	0.89 (0.53-1.49)	0.67 (0.43-1.03)	1.19 (0.70-2.04)	0.72 (0.45-1.16)
rs10769060	Per copy	0.98 (0.84-1.14)	1.02 (0.86-1.21)	1.02 (0.85-1.22)	0.99 (0.81-1.23)	0.91 (0.66-1.26)	1.10 (0.84-1.45)	0.89 (0.63-1.27)	1.16 (0.85-1.59)
	Dominant	1.09 (0.86-1.38)	1.05 (0.85-1.31)	1.16 (0.88-1.52)	1.04 (0.80-1.36)	1.03 (0.63-1.68)	1.04 (0.73-1.48)	0.92 (0.55-1.52)	1.05 (0.70-1.55)
rs730129	Per copy	1.08 (0.91-1.28)	1.08 (0.92-1.27)	1.13 (0.92-1.38)	1.07 (0.88-1.30)	0.72 (0.48-1.07)	1.23 (0.95-1.60)	0.62 (0.41-0.95)	1.14 (0.85-1.53)
	Dominant	1.11 (0.89-1.38)	1.14 (0.91-1.43)	1.18 (0.91-1.53)	1.12 (0.85-1.47)	0.67 (0.41-1.08)	1.54 (1.04-2.26)	0.56 (0.34-0.92)	1.35 (0.89-2.07)
rs744631	Per copy	1.13 (0.96-1.33)	0.95 (0.80-1.12)	1.21 (1.00-1.46)	0.89 (0.72-1.10)	1.14 (0.82-1.59)	0.91 (0.69-1.21)	0.95 (0.66-1.35)	1.02 (0.74-1.40)
	Dominant	1.24 (0.99-1.55)	0.98 (0.79-1.22)	1.40 (1.07-1.82)	0.92 (0.71-1.20)	1.05 (0.66-1.67)	0.95 (0.66-1.35)	0.75 (0.46-1.21)	1.02 (0.69-1.50)
rs2863107	Per copy	1.18 (0.92-1.51)	1.01 (0.79-1.30)	1.10 (0.82-1.47)	0.96 (0.70-1.30)	1.15 (0.71-1.89)	1.02 (0.68-1.52)	1.06 (0.62-1.80)	1.04 (0.66-1.65)
	Dominant	1.30 (0.98-1.72)	1.06 (0.81-1.39)	1.20 (0.86-1.65)	1.00 (0.72-1.40)	1.26 (0.72-2.22)	1.08 (0.69-1.67)	1.05 (0.59-1.88)	1.04 (0.65-1.69)
rs1981994	Per copy	1.03 (0.86-1.23)	1.02 (0.86-1.20)	1.01 (0.81-1.24)	1.03 (0.84-1.26)	0.98 (0.67-1.43)	0.84 (0.64-1.11)	0.98 (0.65-1.47)	0.81 (0.60-1.10)
	Dominant	1.11 (0.88-1.39)	0.96 (0.77-1.19)	1.07 (0.83-1.39)	0.98 (0.75-1.28)	1.04 (0.65-1.66)	0.74 (0.52-1.06)	0.98 (0.60-1.58)	0.74 (0.50-1.10)
rs7946090	Per copy	1.06 (0.86-1.32)	1.02 (0.77-1.34)	1.23 (0.97-1.57)	1.01 (0.72-1.41)	1.06 (0.69-1.65)	1.04 (0.65-1.65)	0.86 (0.55-1.36)	1.01 (0.61-1.68)
	Dominant	1.11 (0.87-1.43)	1.03 (0.77-1.38)	1.30 (0.98-1.73)	1.01 (0.70-1.45)	1.13 (0.67-1.89)	1.03 (0.63-1.69)	0.87 (0.51-1.48)	1.01 (0.59-1.73)
rs7932712	Per copy	1.04 (0.89-1.23)	0.98 (0.83-1.16)	1.12 (0.93-1.36)	0.98 (0.80-1.20)	0.97 (0.69-1.36)	0.91 (0.69-1.19)	0.86 (0.60-1.23)	0.90 (0.66-1.23)
	Dominant	1.07 (0.85-1.34)	1.03 (0.83-1.28)	1.19 (0.91-1.54)	1.01 (0.77-1.32)	0.92 (0.57-1.46)	1.01 (0.71-1.44)	0.77 (0.48-1.26)	0.97 (0.66-1.44)
rs6485550	Per copy	0.97 (0.82-1.14)	1.04 (0.88-1.23)	0.93 (0.77-1.13)	1.07 (0.88-1.31)	1.06 (0.76-1.48)	1.04 (0.80-1.37)	1.13 (0.80-1.61)	0.97 (0.73-1.29)
	Dominant	0.98 (0.78-1.23)	0.99 (0.80-1.23)	0.93 (0.72-1.21)	1.01 (0.78-1.32)	1.13 (0.70-1.82)	0.92 (0.65-1.31)	1.21 (0.74-1.98)	0.90 (0.61-1.33)
rs3781750	Per copy	0.95 (0.75-1.22)	0.86 (0.66-1.12)	0.99 (0.74-1.31)	0.90 (0.65-1.24)	0.86 (0.51-1.45)	0.67 (0.42-1.08)	0.83 (0.47-1.47)	0.74 (0.44-1.26)
	Dominant	1.02 (0.79-1.31)	0.87 (0.65-1.15)	1.06 (0.79-1.43)	0.92 (0.65-1.30)	0.85 (0.48-1.49)	0.65 (0.39-1.08)	0.77 (0.43-1.38)	0.70 (0.40-1.22)
rs12290254	Per copy	0.89 (0.74-1.09)	1.06 (0.90-1.25)	0.88 (0.70-1.11)	1.08 (0.88-1.32)	0.96 (0.64-1.44)	1.15 (0.88-1.50)	1.07 (0.70-1.62)	1.07 (0.80-1.44)
	Dominant	0.88 (0.70-1.11)	1.08 (0.87-1.34)	0.88 (0.67-1.15)	1.12 (0.86-1.46)	0.89 (0.54-1.45)	1.15 (0.80-1.63)	0.99 (0.60-1.66)	1.03 (0.70-1.52)
rs11600829	Per copy	1.07 (0.88-1.29)	0.96 (0.79-1.18)	1.15 (0.93-1.43)	0.95 (0.74-1.21)	1.03 (0.69-1.53)	0.94 (0.68-1.30)	0.90 (0.60-1.35)	0.95 (0.66-1.37)
	Dominant	1.09 (0.87-1.37)	0.99 (0.79-1.25)	1.14 (0.88-1.49)	0.97 (0.73-1.30)	1.03 (0.64-1.67)	0.90 (0.61-1.33)	0.91 (0.56-1.49)	0.89 (0.58-1.37)
rs3758813	Per copy	1.02 (0.87-1.20)	0.99 (0.85-1.15)	0.98 (0.82-1.18)	0.93 (0.77-1.12)	1.00 (0.72-1.39)	1.16 (0.90-1.49)	1.03 (0.75-1.43)	1.26 (0.95-1.66)
	Dominant	0.96 (0.72-1.28)	0.93 (0.74-1.16)	0.86 (0.62-1.19)	0.84 (0.64-1.11)	0.76 (0.43-1.33)	1.35 (0.92-1.97)	0.93 (0.52-1.66)	1.62 (1.07-2.46)
rs3781753	Per copy	1.06 (0.90-1.23)	1.04 (0.86-1.25)	1.05 (0.88-1.26)	0.94 (0.75-1.18)	0.95 (0.69-1.32)	1.22 (0.91-1.64)	0.92 (0.66-1.29)	1.35 (0.96-1.91)
	Dominant	1.11 (0.88-1.40)	1.12 (0.90-1.40)	1.11 (0.85-1.45)	0.97 (0.74-1.28)	0.83 (0.52-1.32)	1.51 (1.06-2.16)	0.77 (0.47-1.25)	1.55 (1.04-2.31)
rs3758815	Per copy	1.03 (0.87-1.22)	1.12 (0.90-1.39)	1.03 (0.85-1.26)	1.00 (0.77-1.31)	0.98 (0.69-1.40)	1.07 (0.75-1.52)	0.98 (0.68-1.40)	1.06 (0.72-1.56)
	Dominant	1.01 (0.81-1.26)	1.13 (0.88-1.44)	1.00 (0.77-1.30)	0.97 (0.71-1.31)	0.95 (0.60-1.52)	1.16 (0.78-1.72)	0.97 (0.60-1.58)	1.18 (0.76-1.83)
rs12788360	Per copy	1.03 (0.87-1.22)	0.94 (0.74-1.20)	1.05 (0.86-1.28)	0.95 (0.71-1.28)	0.97 (0.68-1.39)	0.94 (0.62-1.41)	0.92 (0.63-1.33)	0.96 (0.61-1.52)
	Dominant	1.07 (0.85-1.33)	0.97 (0.74-1.26)	1.08 (0.83-1.40)	0.97 (0.70-1.34)	1.02 (0.64-1.63)	0.92 (0.59-1.45)	0.94 (0.58-1.52)	0.93 (0.57-1.52)
rs9971373	Per copy	0.93 (0.79-1.09)	0.94 (0.80-1.10)	0.89 (0.73-1.07)	0.90 (0.74-1.10)	0.82 (0.58-1.17)	1.06 (0.82-1.37)	0.92 (0.64-1.32)	1.18 (0.88-1.59)
	Dominant	0.90 (0.72-1.12)	0.97 (0.78-1.20)	0.85 (0.65-1.10)	0.97 (0.74-1.26)	0.81 (0.51-1.30)	1.13 (0.79-1.62)	0.94 (0.58-1.52)	1.17 (0.79-1.74)
rs2303861	Per copy	1.08 (0.91-1.30)	0.96 (0.81-1.15)	1.13 (0.92-1.38)	0.87 (0.70-1.08)	1.15 (0.79-1.66)	1.16 (0.88-1.53)	1.03 (0.71-1.51)	1.31 (0.96-1.79)
	Dominant	1.11 (0.89-1.38)	0.97 (0.78-1.20)	1.13 (0.87-1.46)	0.87 (0.67-1.14)	1.17 (0.74-1.87)	1.14 (0.80-1.63)	1.07 (0.67-1.73)	1.28 (0.87-1.89)
rs12421108	Per copy	1.08 (0.82-1.41)	1.08 (0.84-1.39)	1.19 (0.87-1.62)	1.04 (0.76-1.43)	0.92 (0.51-1.64)	1.19 (0.81-1.75)	0.80 (0.44-1.47)	1.21 (0.77-1.89)
	Dominant	1.09 (0.82-1.45)	1.11 (0.85-1.46)	1.20 (0.87-1.67)	1.12 (0.80-1.55)	0.87 (0.47-1.64)	1.16 (0.76-1.79)	0.76 (0.40-1.44)	1.09 (0.68-1.75)
rs1139971	Per copy	1.18 (1.00-1.40)	1.16 (0.99-1.37)	1.19 (0.98-1.44)	1.18 (0.97-1.44)	1.21 (0.86-1.70)	1.04 (0.80-1.35)	1.03 (0.72-1.46)	0.89 (0.67-1.18)
	Dominant	1.28 (1.03-1.60)	1.22 (0.91-1.64)	1.26 (0.97-1.64)	1.22 (0.85-1.75)	1.35 (0.84-2.16)	1.00 (0.63-1.59)	1.08 (0.66-1.76)	0.81 (0.48-1.36)

rs6485553*	Per copy	NA	0.87 (0.69-1.09)	NA	0.80 (0.60-1.07)	NA	0.78 (0.53-1.17)	1.55 (0.15-15.5)	0.98 (0.63-1.52)
	Dominant	NA	0.82 (0.64-1.06)	NA	0.81 (0.59-1.11)	NA	0.76 (0.49-1.17)	1.55 (0.15-15.5)	0.94 (0.59-1.52)
MTA2									
rs2849031†	Per copy	1.18 (1.00-1.39)	0.99 (0.85-1.16)	1.18 (0.97-1.42)	0.96 (0.79-1.17)	1.48 (1.06-2.07)	1.10 (0.85-1.43)	1.28 (0.91-1.81)	1.15 (0.87-1.52)
	Dominant	1.25 (0.99-1.56)	0.93 (0.74-1.17)	1.23 (0.95-1.61)	0.93 (0.70-1.23)	1.67 (1.01-2.74)	1.02 (0.69-1.49)	1.39 (0.83-2.33)	1.12 (0.74-1.70)
rs11231156	Per copy	1.17 (0.99-1.38)	0.98 (0.77-1.24)	1.17 (0.96-1.42)	1.04 (0.79-1.38)	1.39 (0.99-1.96)	0.86 (0.58-1.30)	1.19 (0.84-1.69)	0.80 (0.51-1.25)
	Dominant	1.20 (0.96-1.51)	0.99 (0.77-1.29)	1.20 (0.92-1.57)	1.07 (0.78-1.46)	1.45 (0.89-2.36)	0.92 (0.60-1.42)	1.20 (0.73-1.98)	0.85 (0.53-1.36)
MTA2/EML3									
rs2516633	Per copy	1.27 (1.07-1.52)	1.05 (0.89-1.24)	1.28 (1.04-1.57)	1.02 (0.83-1.25)	1.45 (1.02-2.06)	1.09 (0.83-1.43)	1.16 (0.80-1.67)	1.08 (0.80-1.45)
	Dominant	1.40 (1.12-1.76)	1.07 (0.86-1.32)	1.39 (1.07-1.80)	1.04 (0.80-1.35)	1.61 (1.01-2.58)	1.06 (0.74-1.51)	1.17 (0.72-1.90)	1.05 (0.71-1.55)
SIPAI/PCNXL3									
rs931127	Per copy	1.13 (0.97-1.32)	1.13 (0.96-1.32)	1.19 (0.99-1.42)	1.17 (0.97-1.42)	1.02 (0.74-1.40)	1.08 (0.83-1.40)	0.87 (0.62-1.21)	0.93 (0.70-1.23)
	Dominant	1.19 (0.90-1.56)	1.11 (0.89-1.38)	1.29 (0.93-1.78)	1.15 (0.87-1.51)	1.08 (0.62-1.90)	1.02 (0.71-1.46)	0.86 (0.48-1.55)	0.90 (0.60-1.34)
SIPAI									
rs2509948†	Per copy	0.86 (0.72-1.03)	0.84 (0.68-1.04)	0.82 (0.67-1.01)	0.83 (0.64-1.09)	1.08 (0.75-1.56)	0.71 (0.49-1.05)	1.29 (0.88-1.87)	0.84 (0.55-1.29)
	Dominant	0.81 (0.65-1.01)	0.83 (0.65-1.07)	0.78 (0.60-1.01)	0.85 (0.62-1.15)	1.02 (0.63-1.63)	0.68 (0.44-1.05)	1.29 (0.80-2.09)	0.79 (0.49-1.27)
rs3741378	Per copy	1.02 (0.80-1.29)	0.97 (0.81-1.16)	1.10 (0.84-1.44)	0.86 (0.69-1.07)	0.96 (0.58-1.61)	1.21 (0.92-1.60)	0.87 (0.53-1.45)	1.42 (1.05-1.92)
	Dominant	0.97 (0.75-1.26)	0.93 (0.75-1.16)	1.02 (0.76-1.38)	0.81 (0.62-1.06)	1.01 (0.59-1.74)	1.16 (0.82-1.66)	0.98 (0.56-1.71)	1.47 (0.99-2.17)
rs2306364††	Per copy	1.10 (0.94-1.29)	1.15 (0.98-1.35)	1.11 (0.92-1.33)	1.20 (0.99-1.46)	1.07 (0.77-1.49)	1.09 (0.84-1.42)	0.98 (0.71-1.36)	0.91 (0.68-1.21)
	Dominant	0.99 (0.78-1.25)	1.20 (0.97-1.50)	1.04 (0.79-1.37)	1.26 (0.96-1.65)	0.91 (0.56-1.48)	1.13 (0.79-1.62)	0.90 (0.54-1.48)	0.90 (0.60-1.34)
SIPAI/RELA									
rs10896027	Per copy	0.85 (0.72-1.00)	0.80 (0.61-1.05)	0.82 (0.68-0.99)	0.97 (0.70-1.33)	0.98 (0.70-1.38)	0.54 (0.31-0.94)	1.19 (0.83-1.69)	0.52 (0.29-0.94)
	Dominant	0.83 (0.66-1.03)	0.82 (0.61-1.10)	0.80 (0.62-1.04)	1.02 (0.72-1.44)	0.99 (0.62-1.59)	0.51 (0.28-0.92)	1.22 (0.75-1.98)	0.48 (0.26-0.90)
rs11227247†	Per copy	1.02 (0.81-1.29)	1.03 (0.87-1.21)	1.16 (0.89-1.52)	0.95 (0.78-1.17)	0.97 (0.58-1.60)	1.28 (0.99-1.66)	0.82 (0.49-1.36)	1.38 (1.03-1.84)
	Dominant	0.99 (0.76-1.29)	1.05 (0.85-1.31)	1.14 (0.84-1.53)	0.96 (0.74-1.25)	0.98 (0.57-1.70)	1.35 (0.94-1.93)	0.83 (0.47-1.47)	1.44 (0.97-2.13)
BRMS1/RINI									
rs1784029†	Per copy	0.97 (0.83-1.15)	0.91 (0.77-1.08)	1.00 (0.82-1.21)	1.01 (0.83-1.24)	0.79 (0.56-1.11)	0.82 (0.62-1.09)	0.82 (0.59-1.15)	0.79 (0.57-1.08)
	Dominant	0.76 (0.54-1.07)	0.94 (0.75-1.17)	0.76 (0.51-1.12)	1.09 (0.83-1.42)	0.65 (0.33-1.27)	0.83 (0.58-1.20)	0.90 (0.46-1.78)	0.76 (0.51-1.13)
BRMS1									
rs3116068	Per copy	1.03 (0.86-1.24)	1.14 (0.85-1.53)	0.97 (0.78-1.20)	1.15 (0.81-1.62)	1.29 (0.90-1.86)	1.20 (0.76-1.90)	1.30 (0.90-1.87)	1.06 (0.63-1.75)
	Dominant	1.00 (0.80-1.26)	1.19 (0.88-1.62)	0.90 (0.69-1.18)	1.18 (0.81-1.71)	1.41 (0.88-2.25)	1.30 (0.80-2.10)	1.54 (0.95-2.50)	1.11 (0.66-1.88)
rs1052566	Per copy	1.04 (0.87-1.24)	1.00 (0.74-1.33)	1.02 (0.84-1.25)	1.16 (0.83-1.64)	0.92 (0.63-1.33)	0.64 (0.36-1.14)	0.92 (0.63-1.35)	0.51 (0.27-0.95)
	Dominant	1.03 (0.82-1.28)	1.02 (0.75-1.39)	1.00 (0.77-1.29)	1.23 (0.86-1.77)	0.94 (0.59-1.50)	0.65 (0.36-1.19)	0.97 (0.60-1.57)	0.51 (0.27-0.96)
rs948360	Per copy	1.07 (0.82-1.41)	1.01 (0.86-1.19)	1.12 (0.82-1.53)	0.91 (0.75-1.10)	1.18 (0.68-2.04)	1.17 (0.90-1.53)	1.04 (0.60-1.79)	1.32 (0.98-1.78)
	Dominant	1.04 (0.77-1.40)	1.11 (0.82-1.51)	1.09 (0.78-1.54)	0.94 (0.66-1.35)	1.17 (0.65-2.13)	1.55 (0.88-2.74)	1.07 (0.59-1.97)	1.66 (0.90-3.04)
rs11537993	Per copy	0.92 (0.78-1.09)	0.81 (0.60-1.11)	0.93 (0.77-1.13)	0.90 (0.62-1.30)	0.89 (0.63-1.26)	0.62 (0.34-1.11)	0.96 (0.67-1.37)	0.70 (0.36-1.35)
	Dominant	0.89 (0.72-1.12)	0.80 (0.57-1.11)	0.89 (0.69-1.16)	0.91 (0.62-1.34)	0.81 (0.51-1.29)	0.62 (0.34-1.14)	0.90 (0.55-1.45)	0.71 (0.36-1.39)
rs10896112	Per copy	1.05 (0.89-1.24)	1.11 (0.95-1.29)	1.04 (0.86-1.26)	1.07 (0.89-1.29)	1.33 (0.94-1.87)	1.22 (0.95-1.56)	1.22 (0.87-1.72)	1.13 (0.86-1.48)
	Dominant	0.97 (0.78-1.22)	1.13 (0.89-1.43)	0.95 (0.73-1.23)	1.02 (0.76-1.35)	1.38 (0.86-2.22)	1.33 (0.88-2.00)	1.43 (0.87-2.33)	1.30 (0.83-2.04)
rs4930355†††	Per copy	1.04 (0.88-1.24)	1.04 (0.78-1.40)	1.02 (0.84-1.25)	1.21 (0.86-1.71)	0.94 (0.64-1.37)	0.71 (0.41-1.25)	0.94 (0.64-1.36)	0.54 (0.29-1.00)
	Dominant	1.02 (0.82-1.28)	1.09 (0.80-1.49)	0.98 (0.76-1.27)	1.31 (0.91-1.89)	0.94 (0.59-1.50)	0.74 (0.41-1.33)	0.99 (0.61-1.60)	0.54 (0.29-1.00)
MTA1									
rs8009536*	Per copy	1.89 (0.17-20.5)	1.20 (0.96-1.49)	2.14 (0.15-29.8)	1.30 (1.00-1.69)	NA	1.23 (0.87-1.74)	NA	0.95 (0.65-1.38)

rs7492796*	Dominant	1.89 (0.17-20.5)	1.21 (0.95-1.54)	2.14 (0.15-29.8)	1.32 (0.99-1.77)	NA	1.25 (0.84-1.84)	NA	0.94 (0.61-1.43)
	Per copy	1.78 (0.52-6.05)	1.13 (0.94-1.36)	2.04 (0.54-7.72)	1.19 (0.96-1.48)	NA	1.17 (0.87-1.56)	NA	1.00 (0.72-1.38)
rs10131764 *	Dominant	1.78 (0.52-6.05)	1.22 (0.98-1.52)	2.04 (0.54-7.72)	1.27 (0.97-1.67)	NA	1.29 (0.90-1.84)	NA	1.03 (0.70-1.52)
	Per copy	0.66 (0.18-2.47)	1.01 (0.84-1.22)	1.17 (0.31-4.47)	0.94 (0.74-1.18)	NA	0.95 (0.70-1.29)	NA	1.03 (0.73-1.45)
rs7161158*	Dominant	0.66 (0.18-2.47)	1.02 (0.82-1.28)	1.17 (0.31-4.47)	0.96 (0.73-1.26)	NA	0.93 (0.65-1.35)	NA	0.99 (0.66-1.47)
	Per copy	1.31 (0.35-4.88)	1.05 (0.81-1.35)	1.91 (0.48-7.57)	1.13 (0.84-1.54)	NA	0.96 (0.62-1.48)	NA	0.90 (0.58-1.38)
rs6576104*	Dominant	1.31 (0.35-4.88)	0.96 (0.72-1.28)	1.91 (0.48-7.57)	1.01 (0.72-1.43)	NA	0.87 (0.54-1.41)	NA	0.91 (0.54-1.52)
	Per copy	1.03 (0.43-2.49)	1.09 (0.92-1.29)	1.29 (0.50-3.36)	1.11 (0.90-1.37)	NA	0.98 (0.75-1.30)	NA	0.90 (0.67-1.23)
	Dominant	1.03 (0.43-2.49)	1.12 (0.90-1.40)	1.29 (0.49-3.36)	1.20 (0.92-1.56)	NA	0.92 (0.65-1.32)	NA	0.79 (0.53-1.17)
MTAI/CRIP2									
rs8008685*	Per copy	1.19 (0.36-3.97)	1.03 (0.77-1.37)	1.69 (0.47-6.07)	1.23 (0.88-1.73)	1.21 (0.12-11.9)	0.8 (0.48-1.31)	0.89 (0.10-7.74)	0.68 (0.40-1.16)
	Dominant	1.19 (0.36-3.97)	1.03 (0.77-1.37)	1.69 (0.47-6.07)	1.23 (0.88-1.73)	1.21 (0.12-11.9)	0.8 (0.48-1.31)	0.89 (0.10-7.74)	0.68 (0.40-1.16)
CDHI/CDH3									
rs9940250	Per copy	0.97 (0.75-1.26)	0.88 (0.75-1.03)	0.94 (0.69-1.27)	0.77 (0.63-0.94)	0.72 (0.40-1.31)	1.04 (0.81-1.35)	0.80 (0.44-1.46)	1.31 (0.99-1.74)
	Dominant	0.98 (0.74-1.29)	0.82 (0.66-1.02)	0.93 (0.67-1.30)	0.70 (0.54-0.92)	0.75 (0.40-1.41)	1.01 (0.70-1.44)	0.84 (0.45-1.58)	1.40 (0.94-2.07)
CDHI									
rs9932773*	Per copy	NA	0.97 (0.76-1.25)	NA	0.97 (0.72-1.31)	NA	1.10 (0.74-1.62)	NA	1.08 (0.70-1.67)
	Dominant	NA	0.98 (0.75-1.29)	NA	0.96 (0.68-1.33)	NA	1.16 (0.76-1.78)	NA	1.16 (0.72-1.87)
rs17772363†	Per copy	1.05 (0.89-1.24)	1.19 (0.96-1.46)	1.02 (0.84-1.23)	1.29 (1.01-1.65)	1.14 (0.81-1.60)	0.92 (0.64-1.32)	1.10 (0.77-1.58)	0.71 (0.47-1.06)
	Dominant	1.11 (0.89-1.39)	1.27 (1.00-1.62)	1.03 (0.80-1.34)	1.40 (1.05-1.87)	1.26 (0.79-2.01)	0.96 (0.64-1.45)	1.20 (0.74-1.94)	0.69 (0.45-1.08)
rs11642413	Per copy	0.99 (0.84-1.15)	0.92 (0.78-1.09)	1.04 (0.86-1.25)	0.95 (0.78-1.17)	0.95 (0.68-1.32)	0.94 (0.72-1.24)	0.93 (0.66-1.30)	1.01 (0.74-1.37)
	Dominant	0.89 (0.67-1.18)	0.94 (0.75-1.17)	0.97 (0.70-1.36)	0.96 (0.74-1.25)	0.76 (0.44-1.34)	1.02 (0.71-1.45)	0.81 (0.45-1.45)	1.08 (0.73-1.61)
rs9941051†	Per copy	1.02 (0.78-1.32)	0.97 (0.78-1.22)	0.97 (0.71-1.32)	0.85 (0.64-1.13)	0.85 (0.47-1.51)	1.00 (0.69-1.44)	0.87 (0.47-1.61)	1.13 (0.75-1.69)
	Dominant	1.05 (0.79-1.39)	0.95 (0.74-1.21)	1.00 (0.72-1.39)	0.81 (0.59-1.11)	0.89 (0.48-1.64)	0.97 (0.64-1.46)	0.89 (0.48-1.68)	1.16 (0.74-1.84)
rs11075699	Per copy	1.05 (0.90-1.23)	0.95 (0.79-1.14)	1.10 (0.92-1.33)	0.95 (0.76-1.18)	1.02 (0.73-1.42)	0.96 (0.71-1.30)	0.93 (0.66-1.30)	1.05 (0.75-1.46)
	Dominant	0.98 (0.78-1.24)	0.91 (0.73-1.14)	1.03 (0.78-1.35)	0.90 (0.68-1.18)	1.05 (0.64-1.71)	0.97 (0.68-1.40)	1.01 (0.61-1.68)	1.14 (0.76-1.71)
rs12597188	Per copy	1.07 (0.91-1.26)	0.98 (0.83-1.15)	1.03 (0.86-1.25)	0.99 (0.81-1.21)	1.05 (0.75-1.47)	0.89 (0.68-1.16)	1.01 (0.71-1.43)	0.87 (0.64-1.18)
	Dominant	1.15 (0.92-1.44)	1.01 (0.82-1.26)	1.07 (0.82-1.39)	1.07 (0.82-1.39)	1.11 (0.69-1.78)	0.86 (0.60-1.22)	1.04 (0.64-1.69)	0.79 (0.53-1.16)
rs17715799	Per copy	1.01 (0.86-1.19)	1.15 (0.96-1.37)	0.97 (0.80-1.18)	1.15 (0.92-1.42)	1.07 (0.76-1.51)	1.09 (0.82-1.47)	1.11 (0.79-1.57)	0.94 (0.69-1.30)
	Dominant	1.00 (0.80-1.25)	1.19 (0.96-1.49)	0.93 (0.72-1.21)	1.18 (0.91-1.55)	1.04 (0.65-1.65)	1.10 (0.77-1.57)	1.13 (0.70-1.82)	0.92 (0.62-1.36)
rs4783686†	Per copy	1.04 (0.88-1.22)	1.15 (0.90-1.47)	0.97 (0.80-1.18)	1.15 (0.86-1.54)	1.17 (0.83-1.63)	0.84 (0.54-1.32)	1.20 (0.85-1.69)	0.73 (0.45-1.18)
	Dominant	1.03 (0.83-1.29)	1.19 (0.91-1.57)	0.96 (0.74-1.24)	1.16 (0.83-1.62)	1.17 (0.73-1.87)	0.90 (0.56-1.46)	1.23 (0.76-2.00)	0.78 (0.47-1.31)
rs10431923	Per copy	1.01 (0.86-1.17)	0.88 (0.75-1.05)	1.05 (0.87-1.25)	0.83 (0.67-1.02)	0.81 (0.59-1.12)	1.12 (0.86-1.46)	0.78 (0.56-1.08)	1.36 (1.00-1.84)
	Dominant	0.96 (0.74-1.23)	0.89 (0.72-1.11)	1.06 (0.78-1.42)	0.88 (0.68-1.15)	0.62 (0.38-1.01)	1.05 (0.73-1.49)	0.58 (0.35-0.97)	1.19 (0.80-1.75)
rs4783573	Per copy	1.03 (0.87-1.22)	1.00 (0.86-1.17)	1.03 (0.84-1.25)	0.94 (0.78-1.13)	1.08 (0.76-1.52)	1.28 (0.99-1.65)	1.03 (0.70-1.51)	1.33 (1.00-1.76)
	Dominant	1.10 (0.88-1.38)	1.01 (0.77-1.33)	1.16 (0.89-1.50)	0.93 (0.67-1.29)	1.15 (0.72-1.84)	1.32 (0.81-2.14)	0.97 (0.60-1.57)	1.34 (0.79-2.29)
rs7188750	Per copy	0.92 (0.74-1.13)	0.91 (0.78-1.06)	1.01 (0.80-1.28)	0.86 (0.71-1.04)	0.75 (0.46-1.20)	0.88 (0.68-1.14)	0.72 (0.45-1.17)	1.04 (0.79-1.38)
	Dominant	0.91 (0.72-1.16)	0.86 (0.69-1.07)	1.00 (0.76-1.32)	0.76 (0.58-0.99)	0.76 (0.45-1.28)	0.83 (0.58-1.19)	0.74 (0.43-1.27)	1.13 (0.76-1.67)
rs8056633	Per copy	0.97 (0.80-1.17)	0.91 (0.78-1.07)	1.04 (0.83-1.29)	0.86 (0.71-1.04)	0.76 (0.50-1.15)	0.87 (0.68-1.13)	0.72 (0.47-1.12)	1.03 (0.79-1.36)
	Dominant	1.01 (0.81-1.27)	0.83 (0.61-1.14)	1.09 (0.84-1.42)	0.74 (0.51-1.06)	0.76 (0.46-1.24)	0.73 (0.44-1.20)	0.67 (0.40-1.13)	1.03 (0.60-1.75)
rs3785076*	Per copy	1.02 (0.68-1.53)	0.95 (0.81-1.11)	1.20 (0.77-1.89)	0.90 (0.74-1.09)	0.50 (0.15-1.62)	0.81 (0.62-1.05)	0.37 (0.11-1.24)	0.93 (0.69-1.24)
	Dominant	1.01 (0.66-1.54)	0.95 (0.76-1.19)	1.19 (0.74-1.90)	0.93 (0.71-1.21)	0.50 (0.15-1.63)	0.76 (0.53-1.09)	0.37 (0.11-1.25)	0.87 (0.59-1.29)
rs16958383	Per copy	0.95 (0.76-1.17)	1.02 (0.86-1.21)	0.98 (0.77-1.26)	0.98 (0.80-1.21)	0.91 (0.58-1.43)	1.14 (0.87-1.49)	0.90 (0.56-1.45)	1.17 (0.86-1.58)

rs9935563	Dominant	0.98 (0.76-1.25)	1.10 (0.88-1.36)	1.02 (0.77-1.36)	1.06 (0.81-1.38)	0.97 (0.58-1.62)	1.17 (0.82-1.67)	0.93 (0.55-1.58)	1.10 (0.75-1.64)	
	Per copy	1.16 (0.99-1.37)	1.31 (1.03-1.66)	1.13 (0.94-1.37)	1.46 (1.10-1.93)	1.29 (0.93-1.80)	1.07 (0.71-1.61)	1.14 (0.81-1.61)	0.74 (0.48-1.16)	
rs9925080*	Dominant	1.24 (0.99-1.55)	1.33 (1.02-1.74)	1.19 (0.92-1.55)	1.50 (1.10-2.05)	1.30 (0.80-2.11)	1.11 (0.71-1.73)	1.07 (0.65-1.76)	0.76 (0.47-1.22)	
	Per copy	0.86 (0.55-1.34)	0.82 (0.64-1.05)	0.92 (0.55-1.55)	0.91 (0.67-1.22)	0.39 (0.10-1.48)	0.50 (0.30-0.84)	0.52 (0.15-1.78)	0.57 (0.33-0.99)	
rs8061932	Dominant	0.84 (0.53-1.33)	0.82 (0.62-1.08)	0.93 (0.55-1.57)	0.91 (0.65-1.27)	0.39 (0.10-1.49)	0.47 (0.27-0.82)	0.52 (0.15-1.78)	0.54 (0.30-0.97)	
	Per copy	0.87 (0.70-1.07)	0.91 (0.78-1.06)	0.85 (0.66-1.08)	0.89 (0.73-1.07)	0.98 (0.64-1.49)	0.91 (0.70-1.17)	1.17 (0.76-1.81)	1.03 (0.78-1.37)	
rs2276329	Dominant	0.88 (0.69-1.12)	0.97 (0.75-1.27)	0.83 (0.63-1.10)	0.86 (0.63-1.19)	1.13 (0.70-1.83)	1.09 (0.69-1.71)	1.34 (0.81-2.22)	1.29 (0.79-2.11)	
	Per copy	1.03 (0.76-1.39)	0.91 (0.72-1.15)	1.02 (0.71-1.45)	1.07 (0.81-1.41)	0.95 (0.51-1.78)	0.63 (0.40-0.98)	1.01 (0.52-1.94)	0.59 (0.37-0.95)	
	Dominant	1.05 (0.76-1.43)	0.88 (0.68-1.15)	1.05 (0.73-1.51)	1.04 (0.76-1.43)	0.81 (0.40-1.64)	0.61 (0.38-0.99)	0.81 (0.40-1.67)	0.58 (0.35-0.97)	
CDH1/TMCO7										
rs17690554	Per copy	0.97 (0.79-1.19)	0.92 (0.75-1.13)	1.01 (0.80-1.29)	1.02 (0.80-1.31)	0.78 (0.49-1.24)	0.73 (0.50-1.06)	0.77 (0.49-1.24)	0.72 (0.48-1.07)	
	Dominant	0.92 (0.73-1.17)	0.90 (0.71-1.15)	0.96 (0.73-1.27)	1.01 (0.75-1.35)	0.74 (0.44-1.25)	0.67 (0.43-1.02)	0.76 (0.44-1.30)	0.66 (0.42-1.05)	
NME1/SPAG9										
rs16949649	Per copy	1.01 (0.86-1.18)	0.86 (0.73-1.01)	1.00 (0.83-1.21)	0.84 (0.69-1.02)	1.14 (0.81-1.59)	0.95 (0.73-1.24)	1.14 (0.82-1.59)	1.13 (0.85-1.51)	
	Dominant	0.88 (0.70-1.11)	0.86 (0.69-1.08)	0.88 (0.67-1.14)	0.79 (0.60-1.04)	1.13 (0.69-1.84)	0.99 (0.69-1.43)	1.30 (0.78-2.15)	1.23 (0.82-1.83)	
rs2302254	Per copy	1.07 (0.87-1.32)	0.87 (0.73-1.03)	1.09 (0.85-1.38)	0.85 (0.69-1.04)	1.44 (0.97-2.13)	0.97 (0.75-1.27)	1.39 (0.91-2.12)	1.13 (0.83-1.54)	
	Dominant	1.09 (0.86-1.38)	0.95 (0.77-1.18)	1.15 (0.87-1.51)	0.88 (0.67-1.15)	1.49 (0.92-2.41)	1.10 (0.77-1.57)	1.33 (0.81-2.18)	1.21 (0.82-1.79)	
NME1/NME2										
rs11868380	Per copy	0.92 (0.76-1.11)	0.92 (0.70-1.21)	0.90 (0.72-1.12)	0.90 (0.64-1.26)	0.81 (0.54-1.22)	0.87 (0.54-1.40)	0.91 (0.60-1.39)	1.01 (0.60-1.70)	
	Dominant	0.89 (0.71-1.12)	0.90 (0.67-1.22)	0.86 (0.65-1.12)	0.88 (0.61-1.27)	0.75 (0.46-1.22)	0.87 (0.52-1.44)	0.88 (0.53-1.46)	1.01 (0.58-1.77)	
NME1										
rs2318784	Per copy	1.21 (0.92-1.58)	0.91 (0.70-1.18)	1.31 (0.97-1.78)	0.76 (0.54-1.07)	0.92 (0.50-1.70)	0.81 (0.52-1.28)	0.75 (0.41-1.34)	1.06 (0.63-1.78)	
	Dominant	1.14 (0.86-1.51)	0.93 (0.70-1.23)	1.23 (0.89-1.71)	0.77 (0.54-1.10)	0.93 (0.50-1.73)	0.85 (0.53-1.36)	0.79 (0.42-1.47)	1.09 (0.65-1.85)	
SNAIL										
rs4647955†/††	Per copy	1.03 (0.83-1.28)	0.89 (0.76-1.05)	0.99 (0.77-1.26)	0.87 (0.72-1.06)	1.00 (0.64-1.57)	1.02 (0.79-1.33)	0.97 (0.60-1.56)	1.19 (0.88-1.61)	
	Dominant	1.08 (0.84-1.38)	0.94 (0.69-1.30)	1.01 (0.76-1.35)	0.97 (0.66-1.42)	1.16 (0.70-1.92)	1.10 (0.64-1.90)	1.09 (0.65-1.84)	1.12 (0.62-2.05)	
rs6020177	Per copy	1.03 (0.84-1.28)	0.86 (0.73-1.01)	1.00 (0.78-1.27)	0.83 (0.68-1.01)	1.03 (0.66-1.60)	1.00 (0.77-1.30)	0.98 (0.62-1.56)	1.23 (0.92-1.66)	
	Dominant	1.06 (0.83-1.35)	0.85 (0.62-1.16)	0.99 (0.75-1.32)	0.86 (0.59-1.24)	1.20 (0.73-1.96)	0.97 (0.57-1.64)	1.15 (0.68-1.93)	1.14 (0.64-2.02)	
rs6091080	Per copy	0.95 (0.79-1.14)	0.93 (0.79-1.08)	0.89 (0.71-1.10)	0.91 (0.75-1.11)	0.94 (0.64-1.39)	0.98 (0.77-1.26)	1.06 (0.70-1.58)	1.06 (0.80-1.41)	
	Dominant	0.97 (0.77-1.21)	0.95 (0.76-1.18)	0.88 (0.68-1.15)	0.98 (0.74-1.29)	0.95 (0.59-1.53)	0.85 (0.59-1.22)	1.08 (0.66-1.76)	0.84 (0.56-1.26)	
rs1543442	Per copy	1.06 (0.89-1.25)	1.11 (0.91-1.36)	1.07 (0.88-1.30)	1.09 (0.85-1.39)	1.19 (0.85-1.67)	0.93 (0.66-1.31)	1.15 (0.80-1.67)	0.84 (0.58-1.23)	
	Dominant	1.17 (0.93-1.46)	1.12 (0.89-1.41)	1.23 (0.95-1.61)	1.12 (0.85-1.49)	1.26 (0.78-2.04)	0.89 (0.60-1.32)	1.06 (0.64-1.74)	0.78 (0.51-1.21)	
rs1047920	Per copy	0.84 (0.63-1.12)	1.05 (0.85-1.30)	0.78 (0.55-1.11)	1.09 (0.84-1.42)	0.89 (0.49-1.62)	1.25 (0.90-1.74)	1.12 (0.60-2.10)	1.12 (0.78-1.62)	
	Dominant	0.83 (0.61-1.13)	1.03 (0.81-1.31)	0.79 (0.55-1.14)	1.12 (0.84-1.50)	0.75 (0.38-1.49)	1.15 (0.78-1.69)	0.96 (0.48-1.92)	0.99 (0.65-1.52)	
rs16995019	Per copy	0.95 (0.69-1.30)	1.14 (0.94-1.39)	0.87 (0.59-1.27)	1.14 (0.89-1.45)	1.06 (0.56-2.03)	1.36 (1.00-1.87)	1.19 (0.62-2.30)	1.16 (0.84-1.62)	
	Dominant	0.92 (0.67-1.29)	1.05 (0.84-1.32)	0.86 (0.58-1.27)	1.08 (0.82-1.43)	0.97 (0.49-1.93)	1.19 (0.83-1.72)	1.12 (0.55-2.27)	1.08 (0.72-1.62)	
rs6067309	Per copy	0.93 (0.79-1.09)	1.06 (0.85-1.33)	0.95 (0.79-1.15)	1.15 (0.88-1.51)	0.87 (0.62-1.22)	0.92 (0.63-1.35)	0.92 (0.64-1.31)	0.82 (0.54-1.25)	
	Dominant	0.97 (0.77-1.22)	1.05 (0.82-1.36)	1.02 (0.78-1.33)	1.14 (0.84-1.55)	0.87 (0.54-1.41)	0.88 (0.57-1.35)	0.88 (0.54-1.43)	0.79 (0.49-1.26)	

AA = African-American; EA = European-American; ER = estrogen receptor.

Unconditional logistic regression was used to estimate odds ratios (OR) and 95% confidence intervals (CI), with adjustment for age and proportion of European ancestry. Results for the additive/allelic (per copy) and dominant models are shown. NA indicates that the OR/CI could not be estimated because no participants had the variant genotypes in the case and/or control groups. P-values were adjusted for multiple comparisons using the false discovery rate method; after correction, none of the associations remained statistically significant.

* and ** denote SNPs that were excluded from pathway analyses in EA and AA, respectively, because of minor allele frequency (MAF) < 0.05.
† and †† denote SNPs that were in linkage disequilibrium ($r^2 > 0.80$) with another SNP in EA and AA, respectively, and were excluded from pathway analyses.

Supplementary Table 4. Associations between SNPs and risk of breast cancer, among cases with invasive tumors and stratified by lymph node status, in European-American and African-American women.

SNP	Genotype	Invasive Cases vs Controls		LN Positive Cases vs Controls		LN Negative Cases vs Controls		LN Positive vs LN Negative Cases	
		EA	AA	EA	AA	EA	AA	EA	AA
		OR (95% CI)	OR (95% CI)	OR (95% CI)	OR (95% CI)	OR (95% CI)	OR (95% CI)	OR (95% CI)	OR (95% CI)
<i>KISS1/REN</i>									
rs4951315	Per copy	1.06 (0.87-1.28)	0.91 (0.76-1.08)	1.12 (0.84-1.50)	0.94 (0.73-1.21)	1.03 (0.83-1.29)	0.91 (0.73-1.15)	1.08 (0.77-1.50)	1.05 (0.77-1.41)
	Dominant	1.17 (0.91-1.50)	0.75 (0.55-1.01)	1.20 (0.81-1.78)	0.78 (0.51-1.21)	1.14 (0.85-1.54)	0.73 (0.50-1.07)	1.06 (0.68-1.65)	1.11 (0.66-1.88)
rs12040249†	Per copy	1.00 (0.83-1.21)	0.94 (0.80-1.12)	1.09 (0.82-1.46)	1.02 (0.80-1.31)	0.97 (0.77-1.21)	0.87 (0.70-1.08)	1.11 (0.81-1.52)	1.18 (0.86-1.61)
	Dominant	1.02 (0.79-1.31)	1.10 (0.81-1.49)	1.06 (0.72-1.57)	1.08 (0.69-1.69)	1.00 (0.74-1.34)	1.01 (0.69-1.48)	1.07 (0.69-1.64)	1.00 (0.59-1.72)
<i>KISS1</i>									
rs35431622*	Per copy	1.37 (0.89-2.11)	1.08 (0.88-1.32)	1.35 (0.70-2.59)	1.23 (0.93-1.64)	1.32 (0.80-2.18)	0.99 (0.75-1.30)	1.04 (0.54-2.01)	1.23 (0.86-1.75)
	Dominant	1.35 (0.86-2.12)	1.07 (0.83-1.37)	1.39 (0.71-2.71)	1.24 (0.87-1.77)	1.25 (0.73-2.14)	0.99 (0.72-1.36)	1.15 (0.57-2.33)	1.21 (0.78-1.88)
rs10158616	Per copy	1.25 (0.94-1.66)	1.13 (0.89-1.44)	1.10 (0.70-1.71)	0.98 (0.68-1.40)	1.36 (0.98-1.88)	1.29 (0.95-1.74)	0.79 (0.48-1.31)	0.79 (0.51-1.20)
	Dominant	1.37 (1.00-1.87)	1.11 (0.85-1.45)	1.17 (0.72-1.91)	0.92 (0.62-1.38)	1.51 (1.05-2.16)	1.33 (0.96-1.85)	0.77 (0.45-1.30)	0.71 (0.44-1.14)
rs12097666	Per copy	0.94 (0.77-1.15)	0.91 (0.75-1.09)	0.98 (0.72-1.33)	0.76 (0.57-1.00)	0.93 (0.73-1.18)	1.00 (0.80-1.27)	1.03 (0.73-1.45)	0.77 (0.54-1.08)
	Dominant	0.96 (0.75-1.24)	0.95 (0.75-1.21)	0.95 (0.65-1.41)	0.83 (0.59-1.18)	0.96 (0.71-1.29)	1.00 (0.74-1.36)	0.98 (0.64-1.52)	0.86 (0.56-1.32)
rs12568353	Per copy	0.97 (0.74-1.28)	0.99 (0.80-1.23)	1.01 (0.66-1.56)	1.01 (0.74-1.36)	0.99 (0.72-1.37)	1.03 (0.79-1.35)	1.00 (0.63-1.60)	1.00 (0.68-1.49)
	Dominant	0.94 (0.70-1.27)	1.07 (0.83-1.36)	1.02 (0.65-1.62)	1.10 (0.77-1.56)	0.95 (0.66-1.35)	1.10 (0.81-1.51)	1.07 (0.64-1.77)	1.01 (0.65-1.56)
rs12086978†	Per copy	1.19 (0.91-1.57)	0.98 (0.80-1.21)	0.86 (0.54-1.35)	0.85 (0.62-1.16)	1.37 (1.01-1.86)	1.14 (0.88-1.47)	0.62 (0.38-1.02)	0.78 (0.54-1.14)
	Dominant	1.25 (0.93-1.68)	0.98 (0.77-1.25)	0.86 (0.53-1.41)	0.84 (0.59-1.21)	1.45 (1.03-2.03)	1.13 (0.83-1.54)	0.60 (0.36-1.02)	0.78 (0.50-1.20)
rs3924587†/††	Per copy	1.14 (0.85-1.51)	1.07 (0.84-1.37)	0.93 (0.59-1.48)	0.97 (0.67-1.41)	1.23 (0.89-1.71)	1.18 (0.86-1.60)	0.73 (0.43-1.22)	0.86 (0.56-1.33)
	Dominant	1.22 (0.89-1.66)	1.03 (0.78-1.36)	0.96 (0.58-1.59)	0.94 (0.62-1.42)	1.34 (0.94-1.92)	1.12 (0.79-1.59)	0.70 (0.41-1.20)	0.87 (0.53-1.44)
rs3795573	Per copy	1.08 (0.85-1.38)	1.06 (0.88-1.29)	0.87 (0.59-1.30)	0.83 (0.61-1.11)	1.22 (0.93-1.61)	1.27 (1.00-1.62)	0.69 (0.45-1.06)	0.70 (0.49-0.99)
	Dominant	1.11 (0.85-1.46)	1.06 (0.84-1.35)	0.92 (0.60-1.43)	0.86 (0.61-1.22)	1.24 (0.91-1.71)	1.23 (0.90-1.66)	0.72 (0.45-1.15)	0.76 (0.49-1.16)
<i>MTA3</i>									
rs2132534†	Per copy	1.11 (0.91-1.35)	1.13 (0.92-1.39)	1.07 (0.78-1.47)	1.11 (0.83-1.49)	1.11 (0.87-1.40)	1.12 (0.86-1.45)	0.98 (0.69-1.39)	0.97 (0.66-1.42)
	Dominant	1.19 (0.92-1.53)	1.25 (0.98-1.60)	1.29 (0.87-1.90)	1.19 (0.83-1.69)	1.14 (0.84-1.54)	1.29 (0.95-1.76)	1.16 (0.75-1.78)	0.87 (0.57-1.34)
rs41515446*	Per copy	1.25 (0.16-9.46)	0.86 (0.62-1.19)	NA	0.67 (0.39-1.13)	2.36 (0.32-17.2)	0.99 (0.66-1.48)	NA	0.76 (0.42-1.38)
	Dominant	1.25 (0.16-9.46)	0.84 (0.59-1.18)	NA	0.68 (0.39-1.17)	2.36 (0.32-17.2)	0.93 (0.60-1.44)	NA	0.83 (0.43-1.60)
rs6738967	Per copy	1.01 (0.84-1.22)	1.09 (0.91-1.31)	0.90 (0.67-1.22)	1.16 (0.89-1.51)	1.06 (0.85-1.32)	0.98 (0.77-1.25)	0.88 (0.64-1.20)	1.24 (0.89-1.74)
	Dominant	0.93 (0.73-1.20)	1.13 (0.89-1.44)	0.92 (0.62-1.35)	1.24 (0.88-1.77)	0.97 (0.72-1.31)	1.02 (0.75-1.38)	0.98 (0.63-1.51)	1.25 (0.81-1.91)
rs6544575	Per copy	1.09 (0.90-1.34)	1.18 (0.92-1.51)	1.07 (0.78-1.46)	1.34 (0.96-1.88)	1.11 (0.88-1.40)	1.16 (0.85-1.58)	0.97 (0.68-1.39)	1.17 (0.76-1.82)
	Dominant	1.20 (0.93-1.54)	1.28 (0.97-1.69)	1.34 (0.91-1.97)	1.50 (1.02-2.21)	1.15 (0.86-1.55)	1.29 (0.91-1.82)	1.18 (0.77-1.82)	1.11 (0.69-1.78)
rs6742450†	Per copy	1.09 (0.89-1.33)	1.04 (0.81-1.32)	1.07 (0.78-1.47)	1.03 (0.73-1.46)	1.10 (0.87-1.38)	0.96 (0.70-1.31)	0.98 (0.69-1.41)	1.07 (0.69-1.66)
	Dominant	1.19 (0.93-1.53)	1.07 (0.82-1.40)	1.34 (0.91-1.98)	1.08 (0.74-1.59)	1.15 (0.85-1.55)	0.99 (0.71-1.40)	1.19 (0.77-1.83)	1.09 (0.68-1.74)
rs13404066†	Per copy	0.92 (0.77-1.10)	0.89 (0.75-1.05)	1.10 (0.84-1.45)	0.76 (0.60-0.97)	0.85 (0.69-1.06)	1.03 (0.83-1.27)	1.23 (0.91-1.67)	0.74 (0.54-1.01)
	Dominant	0.86 (0.66-1.12)	0.97 (0.73-1.29)	0.99 (0.66-1.49)	0.74 (0.50-1.11)	0.81 (0.60-1.10)	1.27 (0.86-1.87)	1.18 (0.75-1.84)	0.60 (0.36-0.99)
rs12712854†	Per copy	1.09 (0.89-1.33)	1.00 (0.76-1.32)	1.07 (0.78-1.47)	0.99 (0.66-1.47)	1.10 (0.87-1.39)	1.02 (0.72-1.44)	0.98 (0.69-1.41)	0.97 (0.59-1.58)
	Dominant	1.19 (0.92-1.53)	1.03 (0.77-1.38)	1.34 (0.91-1.98)	1.02 (0.67-1.57)	1.15 (0.85-1.55)	1.03 (0.71-1.50)	1.19 (0.77-1.83)	0.97 (0.58-1.63)
rs4953527††	Per copy	0.94 (0.78-1.12)	0.90 (0.76-1.06)	1.02 (0.77-1.34)	0.84 (0.66-1.07)	0.91 (0.73-1.13)	0.97 (0.78-1.20)	1.08 (0.80-1.47)	0.87 (0.64-1.18)
	Dominant	0.87 (0.68-1.13)	0.94 (0.72-1.22)	0.91 (0.61-1.35)	0.78 (0.54-1.12)	0.85 (0.63-1.15)	1.12 (0.80-1.59)	1.03 (0.67-1.59)	0.71 (0.45-1.13)

rs11900994	Per copy	1.17 (0.95-1.45)	0.96 (0.76-1.22)	0.99 (0.70-1.40)	1.01 (0.73-1.42)	1.24 (0.96-1.58)	0.89 (0.66-1.21)	0.82 (0.57-1.19)	1.21 (0.79-1.85)	
	Dominant	1.15 (0.89-1.48)	0.99 (0.76-1.29)	1.01 (0.68-1.52)	1.11 (0.76-1.62)	1.20 (0.89-1.63)	0.88 (0.62-1.25)	0.88 (0.56-1.37)	1.32 (0.82-2.12)	
rs10195899†	Per copy	1.07 (0.87-1.31)	1.09 (0.89-1.34)	1.06 (0.77-1.45)	1.08 (0.81-1.45)	1.08 (0.85-1.36)	1.10 (0.85-1.43)	0.99 (0.69-1.42)	0.97 (0.67-1.41)	
	Dominant	1.16 (0.90-1.49)	1.19 (0.93-1.52)	1.31 (0.89-1.94)	1.13 (0.79-1.63)	1.12 (0.83-1.51)	1.24 (0.91-1.70)	1.19 (0.77-1.84)	0.87 (0.56-1.35)	
rs6749160†	Per copy	1.06 (0.86-1.29)	1.05 (0.79-1.41)	1.06 (0.77-1.44)	1.25 (0.83-1.87)	1.06 (0.84-1.34)	0.96 (0.66-1.41)	1.01 (0.70-1.45)	1.32 (0.80-2.18)	
	Dominant	1.17 (0.91-1.50)	1.06 (0.77-1.44)	1.32 (0.89-1.95)	1.25 (0.80-1.93)	1.12 (0.83-1.50)	0.96 (0.65-1.43)	1.21 (0.78-1.86)	1.30 (0.76-2.23)	
rs10865184	Per copy	1.13 (0.90-1.42)	1.03 (0.83-1.27)	1.02 (0.71-1.47)	1.16 (0.86-1.58)	1.15 (0.88-1.51)	0.89 (0.67-1.18)	0.90 (0.61-1.34)	1.27 (0.87-1.85)	
	Dominant	1.12 (0.86-1.45)	0.99 (0.77-1.28)	1.06 (0.70-1.60)	1.22 (0.85-1.74)	1.12 (0.82-1.52)	0.84 (0.60-1.16)	0.98 (0.62-1.53)	1.44 (0.92-2.25)	
rs10187451	Per copy	1.02 (0.85-1.22)	0.89 (0.74-1.06)	1.05 (0.79-1.39)	0.77 (0.59-1.00)	1.00 (0.81-1.23)	0.98 (0.78-1.22)	1.04 (0.76-1.44)	0.82 (0.60-1.13)	
	Dominant	1.10 (0.85-1.41)	0.88 (0.69-1.12)	1.37 (0.91-2.06)	0.71 (0.50-1.01)	1.00 (0.74-1.36)	0.97 (0.72-1.32)	1.33 (0.85-2.08)	0.77 (0.51-1.18)	
rs7600465	Per copy	0.87 (0.66-1.16)	0.83 (0.68-1.03)	1.06 (0.70-1.61)	0.64 (0.46-0.90)	0.76 (0.53-1.08)	0.99 (0.76-1.29)	1.31 (0.80-2.14)	0.66 (0.44-0.99)	
	Dominant	0.85 (0.62-1.16)	0.84 (0.66-1.08)	1.06 (0.67-1.68)	0.65 (0.45-0.95)	0.74 (0.50-1.09)	1.02 (0.75-1.40)	1.32 (0.77-2.24)	0.68 (0.43-1.07)	
rs4953564†/††	Per copy	1.12 (0.91-1.36)	1.05 (0.85-1.30)	1.07 (0.78-1.46)	1.07 (0.79-1.44)	1.14 (0.90-1.44)	1.07 (0.82-1.40)	0.94 (0.66-1.34)	0.97 (0.65-1.43)	
	Dominant	1.23 (0.96-1.59)	1.17 (0.91-1.50)	1.34 (0.91-1.97)	1.17 (0.81-1.69)	1.21 (0.90-1.63)	1.20 (0.87-1.64)	1.13 (0.73-1.73)	0.93 (0.59-1.44)	
rs4953573†/††	Per copy	1.01 (0.85-1.21)	1.01 (0.81-1.27)	0.94 (0.71-1.23)	1.16 (0.85-1.59)	1.03 (0.84-1.27)	0.92 (0.68-1.23)	0.93 (0.67-1.28)	1.31 (0.87-1.98)	
	Dominant	1.16 (0.89-1.50)	1.08 (0.83-1.40)	1.11 (0.74-1.66)	1.25 (0.86-1.82)	1.16 (0.85-1.57)	0.98 (0.69-1.37)	1.02 (0.65-1.60)	1.34 (0.84-2.13)	
rs4953577	Per copy	1.02 (0.85-1.22)	1.05 (0.85-1.30)	0.95 (0.72-1.25)	1.11 (0.82-1.50)	1.04 (0.85-1.28)	1.03 (0.78-1.35)	0.93 (0.67-1.29)	1.12 (0.76-1.66)	
	Dominant	1.20 (0.93-1.56)	1.15 (0.89-1.48)	1.16 (0.77-1.74)	1.19 (0.82-1.71)	1.22 (0.89-1.66)	1.15 (0.84-1.59)	1.01 (0.64-1.59)	1.07 (0.68-1.67)	
MTA3/OXER1										
rs4508645	Per copy	1.05 (0.88-1.25)	1.10 (0.9-1.33)	1.00 (0.76-1.31)	1.22 (0.92-1.61)	1.11 (0.90-1.37)	1.03 (0.81-1.32)	0.92 (0.67-1.24)	1.17 (0.83-1.64)	
	Dominant	1.07 (0.80-1.45)	1.14 (0.9-1.46)	1.08 (0.68-1.71)	1.28 (0.90-1.83)	1.10 (0.77-1.56)	1.09 (0.80-1.48)	1.03 (0.61-1.74)	1.20 (0.78-1.85)	
SATB1/TBCID5										
rs7434191	Per copy	0.86 (0.71-1.03)	0.93 (0.77-1.14)	0.77 (0.57-1.03)	0.81 (0.60-1.08)	0.90 (0.72-1.11)	1.10 (0.85-1.40)	0.87 (0.64-1.18)	0.80 (0.57-1.13)	
	Dominant	0.74 (0.56-0.98)	0.86 (0.67-1.09)	0.71 (0.47-1.08)	0.71 (0.50-1.02)	0.75 (0.54-1.03)	1.02 (0.75-1.39)	0.95 (0.60-1.50)	0.74 (0.48-1.14)	
rs6577639	Per copy	1.07 (0.90-1.28)	1.10 (0.93-1.30)	1.34 (1.02-1.77)	1.25 (0.98-1.60)	0.98 (0.79-1.21)	1.04 (0.84-1.29)	1.31 (0.98-1.77)	1.19 (0.89-1.59)	
	Dominant	1.02 (0.79-1.33)	1.06 (0.81-1.38)	1.50 (0.97-2.30)	1.21 (0.81-1.79)	0.85 (0.63-1.16)	0.97 (0.69-1.35)	1.78 (1.11-2.86)	1.25 (0.77-2.01)	
rs7426741*	Per copy	0.08 (0.01-0.76)	0.78 (0.56-1.10)	NA	0.91 (0.57-1.45)	0.26 (0.03-2.37)	0.72 (0.46-1.13)	NA	1.21 (0.66-2.23)	
	Dominant	0.06 (0.00-0.87)	0.78 (0.55-1.13)	NA	0.86 (0.51-1.46)	0.20 (0.01-2.61)	0.75 (0.46-1.20)	NA	1.11 (0.58-2.14)	
rs3935618**	Per copy	1.29 (0.97-1.70)	0.92 (0.55-1.54)	0.93 (0.58-1.49)	1.06 (0.51-2.20)	1.43 (1.03-1.97)	0.81 (0.42-1.56)	0.65 (0.40-1.07)	1.11 (0.44-2.78)	
	Dominant	1.27 (0.94-1.71)	0.94 (0.56-1.59)	0.96 (0.59-1.56)	1.08 (0.51-2.28)	1.40 (0.99-1.98)	0.83 (0.42-1.63)	0.68 (0.41-1.15)	1.11 (0.44-2.78)	
SATB1										
rs12630303	Per copy	1.00 (0.84-1.19)	1.02 (0.82-1.28)	0.85 (0.65-1.12)	0.95 (0.68-1.33)	1.08 (0.88-1.32)	1.10 (0.84-1.45)	0.78 (0.58-1.05)	0.88 (0.59-1.32)	
	Dominant	1.00 (0.74-1.35)	1.01 (0.78-1.31)	0.88 (0.56-1.39)	1.03 (0.70-1.50)	0.99 (0.70-1.42)	1.04 (0.75-1.44)	0.88 (0.53-1.44)	1.02 (0.64-1.62)	
rs9852969	Per copy	0.96 (0.80-1.14)	1.10 (0.89-1.37)	1.03 (0.79-1.36)	1.40 (1.03-1.89)	0.98 (0.80-1.21)	0.96 (0.73-1.27)	1.08 (0.80-1.45)	1.49 (1.01-2.18)	
	Dominant	0.91 (0.70-1.19)	1.17 (0.91-1.50)	1.02 (0.67-1.54)	1.51 (1.05-2.15)	0.90 (0.66-1.22)	1.00 (0.72-1.38)	1.18 (0.74-1.85)	1.58 (1.01-2.45)	
rs4129096	Per copy	1.00 (0.82-1.21)	0.94 (0.72-1.23)	0.97 (0.72-1.32)	0.95 (0.64-1.42)	0.97 (0.77-1.22)	0.95 (0.68-1.33)	1.00 (0.72-1.39)	1.00 (0.63-1.57)	
	Dominant	0.93 (0.73-1.20)	0.89 (0.67-1.18)	0.92 (0.63-1.36)	0.95 (0.63-1.44)	0.90 (0.67-1.21)	0.84 (0.58-1.22)	1.03 (0.67-1.58)	1.13 (0.68-1.88)	
rs3922895*	Per copy	1.11 (0.69-1.79)	0.83 (0.66-1.04)	1.11 (0.55-2.26)	0.95 (0.69-1.31)	0.94 (0.52-1.69)	0.74 (0.54-1.01)	1.11 (0.50-2.46)	1.33 (0.87-2.03)	
	Dominant	1.21 (0.73-2.00)	0.85 (0.65-1.11)	1.21 (0.57-2.59)	1.00 (0.69-1.46)	1.00 (0.54-1.86)	0.73 (0.51-1.04)	1.25 (0.55-2.85)	1.42 (0.88-2.29)	
rs9714216	Per copy	1.01 (0.84-1.21)	1.00 (0.80-1.25)	0.99 (0.75-1.31)	0.83 (0.58-1.17)	1.01 (0.81-1.26)	1.18 (0.89-1.56)	1.00 (0.73-1.37)	0.74 (0.50-1.10)	
	Dominant	1.03 (0.79-1.33)	0.95 (0.74-1.22)	0.94 (0.63-1.41)	0.77 (0.53-1.13)	1.07 (0.78-1.45)	1.13 (0.83-1.55)	0.92 (0.59-1.43)	0.71 (0.45-1.12)	
rs9310551	Per copy	1.11 (0.89-1.37)	0.97 (0.79-1.18)	1.07 (0.76-1.49)	1.07 (0.80-1.42)	1.15 (0.89-1.48)	0.98 (0.76-1.28)	0.96 (0.67-1.38)	1.07 (0.75-1.54)	
	Dominant	1.08 (0.83-1.41)	0.96 (0.75-1.22)	1.00 (0.66-1.51)	1.03 (0.72-1.46)	1.12 (0.82-1.53)	1.02 (0.74-1.39)	0.92 (0.59-1.45)	0.98 (0.64-1.52)	

rs9879688*	Per copy	0.99 (0.60-1.66)	0.99 (0.82-1.19)	0.97 (0.44-2.15)	1.06 (0.82-1.38)	1.07 (0.59-1.93)	0.83 (0.65-1.05)	0.82 (0.36-1.88)	1.29 (0.92-1.79)	
	Dominant	1.01 (0.60-1.71)	1.00 (0.79-1.27)	0.99 (0.44-2.22)	1.11 (0.78-1.58)	1.09 (0.60-1.98)	0.79 (0.58-1.08)	0.91 (0.39-2.12)	1.39 (0.91-2.14)	
rs11720566	Per copy	0.93 (0.77-1.11)	1.10 (0.84-1.44)	1.02 (0.77-1.36)	1.16 (0.79-1.71)	0.87 (0.70-1.09)	1.03 (0.73-1.45)	1.11 (0.81-1.52)	1.06 (0.67-1.70)	
	Dominant	0.90 (0.70-1.16)	1.07 (0.80-1.44)	1.09 (0.73-1.62)	1.12 (0.73-1.71)	0.81 (0.60-1.10)	0.99 (0.68-1.44)	1.28 (0.83-1.98)	1.06 (0.63-1.77)	
rs9714119	Per copy	1.06 (0.88-1.27)	1.02 (0.86-1.21)	1.07 (0.81-1.42)	0.97 (0.76-1.25)	1.05 (0.84-1.30)	1.05 (0.84-1.31)	1.06 (0.77-1.45)	0.90 (0.66-1.24)	
	Dominant	1.16 (0.90-1.51)	1.09 (0.82-1.44)	1.10 (0.74-1.65)	1.06 (0.70-1.60)	1.15 (0.85-1.56)	1.13 (0.78-1.63)	1.00 (0.64-1.56)	0.84 (0.50-1.41)	
rs9849722	Per copy	0.99 (0.83-1.19)	0.92 (0.77-1.10)	0.89 (0.67-1.17)	0.83 (0.64-1.07)	1.04 (0.84-1.28)	1.03 (0.82-1.29)	0.87 (0.64-1.18)	0.81 (0.59-1.11)	
	Dominant	0.99 (0.75-1.30)	0.88 (0.68-1.14)	0.90 (0.60-1.36)	0.79 (0.54-1.14)	1.01 (0.73-1.39)	1.05 (0.75-1.47)	0.91 (0.58-1.44)	0.75 (0.48-1.19)	
rs12106735	Per copy	1.00 (0.81-1.23)	0.97 (0.78-1.20)	0.91 (0.65-1.26)	0.89 (0.65-1.22)	1.03 (0.81-1.31)	1.06 (0.81-1.39)	0.86 (0.60-1.24)	0.82 (0.56-1.18)	
	Dominant	1.01 (0.78-1.30)	0.90 (0.70-1.15)	0.93 (0.62-1.38)	0.81 (0.56-1.16)	1.03 (0.76-1.39)	1.00 (0.73-1.37)	0.89 (0.57-1.38)	0.77 (0.49-1.22)	
rs11926449*	Per copy	0.45 (0.15-1.34)	0.87 (0.69-1.10)	0.61 (0.16-2.36)	1.00 (0.72-1.39)	0.34 (0.08-1.39)	0.75 (0.55-1.03)	0.79 (0.18-3.38)	1.27 (0.84-1.92)	
	Dominant	0.55 (0.17-1.82)	0.81 (0.62-1.06)	0.84 (0.18-3.88)	0.94 (0.64-1.39)	0.36 (0.07-1.78)	0.69 (0.48-0.99)	1.13 (0.22-5.68)	1.34 (0.82-2.21)	
rs9858924†	Per copy	1.09 (0.90-1.31)	1.03 (0.83-1.28)	1.17 (0.89-1.55)	0.88 (0.63-1.22)	1.06 (0.85-1.32)	1.21 (0.93-1.58)	1.14 (0.83-1.58)	0.71 (0.48-1.04)	
	Dominant	1.19 (0.92-1.54)	1.03 (0.80-1.31)	1.21 (0.81-1.79)	0.86 (0.60-1.25)	1.18 (0.87-1.59)	1.22 (0.89-1.66)	1.06 (0.69-1.65)	0.69 (0.44-1.07)	
rs11712525	Per copy	0.93 (0.75-1.16)	1.13 (0.90-1.42)	1.01 (0.72-1.43)	1.25 (0.91-1.73)	0.88 (0.67-1.14)	0.93 (0.69-1.26)	1.12 (0.76-1.65)	1.40 (0.93-2.12)	
	Dominant	0.93 (0.72-1.21)	1.17 (0.90-1.52)	1.14 (0.76-1.69)	1.34 (0.92-1.94)	0.82 (0.60-1.12)	0.93 (0.66-1.31)	1.32 (0.84-2.07)	1.53 (0.96-2.44)	
rs9713269†††	Per copy	1.10 (0.92-1.32)	1.04 (0.83-1.30)	1.15 (0.87-1.52)	0.95 (0.67-1.33)	1.09 (0.87-1.36)	1.15 (0.87-1.52)	1.09 (0.80-1.50)	0.79 (0.53-1.18)	
	Dominant	1.19 (0.93-1.54)	1.05 (0.81-1.36)	1.15 (0.78-1.71)	0.96 (0.66-1.40)	1.21 (0.89-1.63)	1.14 (0.83-1.57)	1.00 (0.64-1.54)	0.81 (0.52-1.28)	
rs6772650*	Per copy	2.53 (0.24-26.4)	1.00 (0.76-1.30)	5.00 (0.42-59.5)	1.17 (0.82-1.68)	1.46 (0.08-26.5)	0.84 (0.58-1.20)	4.81 (0.47-49.1)	1.36 (0.85-2.19)	
	Dominant	2.53 (0.24-26.4)	1.01 (0.75-1.35)	5.00 (0.42-59.5)	1.16 (0.77-1.76)	1.46 (0.08-26.5)	0.86 (0.59-1.27)	4.81 (0.47-49.1)	1.26 (0.75-2.12)	
rs1475469	Per copy	1.20 (0.95-1.53)	1.04 (0.86-1.25)	1.14 (0.79-1.63)	1.02 (0.78-1.32)	1.22 (0.92-1.61)	1.01 (0.80-1.28)	0.99 (0.66-1.49)	0.98 (0.71-1.37)	
	Dominant	1.28 (0.98-1.66)	1.10 (0.87-1.40)	1.14 (0.76-1.72)	1.01 (0.71-1.43)	1.32 (0.97-1.80)	1.06 (0.78-1.44)	0.92 (0.58-1.44)	0.95 (0.62-1.45)	
rs6550461	Per copy	0.90 (0.72-1.12)	1.16 (0.96-1.40)	0.70 (0.49-1.02)	1.17 (0.89-1.54)	0.97 (0.75-1.25)	1.26 (0.99-1.60)	0.72 (0.47-1.09)	0.97 (0.70-1.36)	
	Dominant	0.94 (0.72-1.21)	1.17 (0.92-1.49)	0.72 (0.47-1.10)	1.22 (0.86-1.73)	1.03 (0.76-1.40)	1.34 (0.98-1.82)	0.72 (0.45-1.14)	0.95 (0.62-1.46)	
rs1359994*	Per copy	0.76 (0.23-2.53)	1.03 (0.70-1.50)	NA	0.92 (0.53-1.62)	1.25 (0.37-4.25)	0.93 (0.56-1.54)	NA	1.06 (0.55-2.07)	
	Dominant	0.76 (0.23-2.53)	0.98 (0.66-1.47)	NA	0.80 (0.43-1.49)	1.25 (0.37-4.25)	0.90 (0.53-1.55)	NA	0.99 (0.46-2.12)	
CTNNB1										
rs12492719*	Per copy	1.31 (0.84-2.05)	1.01 (0.83-1.22)	1.43 (0.77-2.65)	1.03 (0.78-1.37)	1.07 (0.62-1.85)	0.98 (0.77-1.25)	1.34 (0.68-2.63)	1.04 (0.74-1.47)	
	Dominant	1.37 (0.86-2.20)	1.05 (0.82-1.33)	1.40 (0.70-2.83)	1.21 (0.85-1.72)	1.14 (0.65-2.02)	0.90 (0.66-1.23)	1.20 (0.57-2.50)	1.35 (0.88-2.07)	
rs9872966*	Per copy	2.60 (0.75-8.95)	1.31 (0.99-1.73)	2.89 (0.72-11.5)	1.17 (0.77-1.78)	2.77 (0.6-12.67)	1.26 (0.89-1.80)	1.49 (0.40-5.56)	0.83 (0.51-1.35)	
	Dominant	2.62 (0.72-9.51)	1.27 (0.94-1.72)	2.80 (0.53-14.6)	1.17 (0.75-1.81)	2.77 (0.6-12.67)	1.20 (0.81-1.76)	1.05 (0.20-5.48)	0.86 (0.50-1.47)	
rs2140090†††	Per copy	1.01 (0.85-1.21)	0.91 (0.76-1.09)	1.26 (0.96-1.66)	0.87 (0.67-1.14)	0.94 (0.76-1.17)	0.88 (0.70-1.11)	1.34 (0.98-1.81)	1.00 (0.72-1.38)	
	Dominant	1.02 (0.78-1.33)	0.93 (0.73-1.18)	1.29 (0.84-1.97)	0.96 (0.68-1.36)	0.97 (0.71-1.32)	0.84 (0.62-1.13)	1.34 (0.84-2.15)	1.16 (0.76-1.77)	
rs2293302*	Per copy	1.02 (0.46-2.27)	0.95 (0.65-1.39)	1.01 (0.29-3.52)	1.07 (0.63-1.80)	0.94 (0.36-2.46)	0.90 (0.54-1.49)	1.07 (0.26-4.35)	1.23 (0.63-2.40)	
	Dominant	1.02 (0.46-2.27)	0.96 (0.64-1.43)	1.01 (0.29-3.52)	1.05 (0.60-1.84)	0.94 (0.36-2.46)	0.93 (0.55-1.56)	1.07 (0.26-4.35)	1.16 (0.58-2.33)	
CTNNB1/ULK4										
rs9883073	Per copy	1.02 (0.85-1.21)	0.84 (0.69-1.01)	1.27 (0.97-1.66)	0.83 (0.63-1.09)	0.96 (0.77-1.18)	0.77 (0.60-0.98)	1.35 (1.00-1.84)	1.08 (0.75-1.54)	
	Dominant	1.03 (0.79-1.34)	0.87 (0.68-1.10)	1.27 (0.83-1.94)	0.95 (0.67-1.34)	1.00 (0.73-1.37)	0.74 (0.55-1.01)	1.33 (0.83-2.13)	1.24 (0.81-1.91)	
CD82/ALX4										
rs12277918*	Per copy	NA	1.01 (0.76-1.34)	NA	1.10 (0.73-1.66)	NA	0.97 (0.66-1.40)	NA	1.14 (0.70-1.87)	
	Dominant	NA	0.98 (0.73-1.32)	NA	1.09 (0.71-1.66)	NA	0.92 (0.62-1.36)	NA	1.17 (0.69-1.98)	
rs934178	Per copy	1.03 (0.87-1.23)	1.07 (0.89-1.28)	1.00 (0.76-1.30)	1.09 (0.85-1.41)	1.07 (0.87-1.31)	1.06 (0.84-1.33)	0.93 (0.68-1.27)	1.03 (0.74-1.42)	
	Dominant	1.24 (0.94-1.64)	1.11 (0.87-1.42)	1.22 (0.79-1.88)	1.08 (0.76-1.54)	1.33 (0.95-1.86)	1.13 (0.83-1.55)	0.91 (0.56-1.49)	0.92 (0.60-1.43)	

CD82									
rs7126437	Per copy	1.03 (0.85-1.25)	1.00 (0.84-1.19)	0.94 (0.70-1.27)	0.95 (0.74-1.22)	1.07 (0.86-1.34)	1.05 (0.84-1.31)	0.85 (0.60-1.18)	0.92 (0.67-1.26)
	Dominant	1.07 (0.83-1.38)	1.08 (0.84-1.41)	1.02 (0.69-1.51)	0.96 (0.66-1.40)	1.07 (0.80-1.45)	1.14 (0.81-1.59)	0.93 (0.60-1.43)	0.87 (0.54-1.39)
rs17541041	Per copy	0.77 (0.61-0.99)	0.81 (0.63-1.03)	0.74 (0.50-1.09)	0.67 (0.46-0.98)	0.78 (0.58-1.04)	0.83 (0.60-1.13)	0.97 (0.62-1.52)	0.79 (0.49-1.26)
	Dominant	0.78 (0.59-1.03)	0.82 (0.62-1.08)	0.82 (0.53-1.26)	0.62 (0.40-0.96)	0.74 (0.53-1.04)	0.85 (0.60-1.21)	1.12 (0.69-1.83)	0.75 (0.44-1.26)
rs10769060	Per copy	1.03 (0.87-1.23)	1.03 (0.85-1.24)	0.92 (0.70-1.21)	1.18 (0.90-1.54)	1.07 (0.87-1.31)	0.90 (0.70-1.15)	0.86 (0.62-1.17)	1.41 (1.00-2.00)
	Dominant	1.16 (0.89-1.51)	1.05 (0.83-1.34)	1.02 (0.68-1.53)	1.21 (0.85-1.71)	1.23 (0.90-1.69)	0.92 (0.68-1.25)	0.84 (0.53-1.32)	1.38 (0.90-2.13)
rs730129	Per copy	1.06 (0.87-1.29)	1.11 (0.93-1.33)	1.21 (0.90-1.62)	1.22 (0.95-1.58)	0.98 (0.77-1.24)	1.14 (0.91-1.43)	1.24 (0.89-1.74)	1.06 (0.77-1.45)
	Dominant	1.08 (0.84-1.38)	1.20 (0.94-1.54)	1.32 (0.90-1.95)	1.40 (0.96-2.03)	0.98 (0.73-1.32)	1.21 (0.88-1.66)	1.32 (0.86-2.03)	1.14 (0.72-1.80)
rs744631	Per copy	1.13 (0.94-1.36)	0.90 (0.75-1.09)	1.23 (0.92-1.63)	0.83 (0.63-1.10)	1.11 (0.89-1.38)	0.98 (0.77-1.25)	1.15 (0.83-1.58)	0.83 (0.58-1.18)
	Dominant	1.23 (0.95-1.59)	0.94 (0.74-1.19)	1.57 (1.04-2.35)	0.82 (0.58-1.17)	1.14 (0.85-1.54)	1.05 (0.78-1.43)	1.43 (0.91-2.24)	0.77 (0.50-1.19)
rs2863107	Per copy	1.10 (0.83-1.46)	1.05 (0.80-1.37)	1.58 (1.08-2.30)	1.10 (0.75-1.63)	0.95 (0.67-1.34)	0.96 (0.68-1.37)	1.90 (1.19-3.03)	1.11 (0.68-1.83)
	Dominant	1.21 (0.88-1.65)	1.11 (0.82-1.49)	1.84 (1.19-2.85)	1.17 (0.77-1.79)	1.03 (0.70-1.52)	1.02 (0.70-1.50)	1.89 (1.15-3.12)	1.10 (0.65-1.85)
rs1981994	Per copy	0.95 (0.78-1.18)	0.94 (0.78-1.13)	1.05 (0.77-1.44)	0.94 (0.72-1.23)	0.96 (0.75-1.22)	0.93 (0.74-1.18)	1.19 (0.83-1.71)	0.98 (0.71-1.35)
	Dominant	1.01 (0.78-1.30)	0.88 (0.70-1.12)	1.20 (0.81-1.78)	0.90 (0.63-1.27)	0.98 (0.73-1.33)	0.86 (0.63-1.17)	1.32 (0.85-2.03)	1.00 (0.65-1.53)
rs7946090	Per copy	1.19 (0.94-1.50)	1.02 (0.75-1.38)	1.13 (0.78-1.62)	1.19 (0.78-1.81)	1.19 (0.91-1.57)	0.84 (0.55-1.27)	0.93 (0.63-1.39)	1.54 (0.89-2.67)
	Dominant	1.24 (0.94-1.63)	1.01 (0.73-1.41)	1.17 (0.76-1.80)	1.17 (0.74-1.84)	1.23 (0.89-1.71)	0.83 (0.53-1.29)	0.95 (0.59-1.52)	1.56 (0.86-2.83)
rs7932712	Per copy	1.06 (0.89-1.28)	0.95 (0.79-1.15)	1.07 (0.80-1.42)	0.95 (0.73-1.24)	1.07 (0.86-1.32)	0.92 (0.73-1.17)	1.05 (0.77-1.43)	1.04 (0.74-1.44)
	Dominant	1.08 (0.84-1.40)	1.00 (0.79-1.28)	1.17 (0.79-1.75)	0.91 (0.64-1.30)	1.02 (0.76-1.38)	1.00 (0.73-1.36)	1.22 (0.78-1.89)	0.90 (0.58-1.38)
rs6485550	Per copy	0.94 (0.78-1.13)	1.07 (0.89-1.28)	0.95 (0.71-1.27)	0.96 (0.73-1.26)	0.92 (0.74-1.15)	1.12 (0.89-1.41)	1.01 (0.74-1.39)	0.86 (0.62-1.18)
	Dominant	0.93 (0.72-1.19)	1.02 (0.81-1.30)	0.99 (0.67-1.48)	0.94 (0.67-1.34)	0.86 (0.64-1.16)	1.04 (0.76-1.41)	1.13 (0.73-1.75)	0.86 (0.56-1.31)
rs3781750	Per copy	0.84 (0.63-1.12)	0.78 (0.58-1.06)	0.75 (0.47-1.17)	0.66 (0.41-1.06)	0.91 (0.65-1.27)	0.80 (0.54-1.18)	0.84 (0.50-1.43)	0.86 (0.48-1.53)
	Dominant	0.89 (0.66-1.20)	0.78 (0.57-1.08)	0.78 (0.48-1.25)	0.64 (0.39-1.06)	0.97 (0.69-1.37)	0.80 (0.53-1.21)	0.84 (0.50-1.43)	0.82 (0.44-1.51)
rs12290254	Per copy	0.87 (0.69-1.08)	1.04 (0.86-1.24)	0.76 (0.53-1.09)	1.07 (0.82-1.39)	0.89 (0.68-1.15)	0.99 (0.78-1.25)	0.85 (0.57-1.27)	1.04 (0.75-1.45)
	Dominant	0.85 (0.65-1.11)	1.05 (0.83-1.34)	0.73 (0.48-1.11)	1.18 (0.83-1.67)	0.87 (0.63-1.19)	0.92 (0.67-1.25)	0.83 (0.52-1.32)	1.23 (0.80-1.88)
rs11600829	Per copy	1.12 (0.91-1.39)	0.96 (0.77-1.19)	1.27 (0.92-1.74)	1.03 (0.75-1.41)	1.08 (0.84-1.40)	0.89 (0.67-1.18)	1.25 (0.88-1.78)	1.16 (0.79-1.72)
	Dominant	1.12 (0.86-1.44)	0.96 (0.74-1.24)	1.33 (0.90-1.97)	1.03 (0.71-1.50)	1.07 (0.79-1.45)	0.87 (0.63-1.22)	1.34 (0.86-2.07)	1.15 (0.72-1.82)
rs3758813	Per copy	1.02 (0.85-1.21)	1.04 (0.88-1.23)	1.02 (0.78-1.34)	1.02 (0.80-1.30)	1.03 (0.83-1.27)	1.12 (0.91-1.40)	0.96 (0.72-1.29)	0.96 (0.71-1.28)
	Dominant	0.86 (0.62-1.18)	0.99 (0.77-1.27)	0.77 (0.48-1.23)	0.97 (0.68-1.39)	0.91 (0.62-1.34)	1.06 (0.77-1.47)	0.80 (0.47-1.36)	0.96 (0.62-1.50)
rs3781753	Per copy	1.02 (0.85-1.21)	1.10 (0.90-1.35)	1.02 (0.78-1.34)	0.98 (0.73-1.32)	1.00 (0.81-1.24)	1.22 (0.95-1.56)	1.00 (0.74-1.35)	0.82 (0.57-1.17)
	Dominant	1.02 (0.79-1.33)	1.18 (0.92-1.50)	0.93 (0.62-1.38)	1.02 (0.71-1.46)	1.06 (0.78-1.45)	1.30 (0.95-1.78)	0.85 (0.55-1.33)	0.83 (0.54-1.29)
rs3758815	Per copy	1.04 (0.86-1.26)	1.11 (0.88-1.40)	1.13 (0.85-1.51)	0.93 (0.64-1.33)	1.00 (0.80-1.26)	1.34 (1.00-1.78)	1.13 (0.82-1.55)	0.68 (0.44-1.03)
	Dominant	1.00 (0.77-1.28)	1.10 (0.84-1.44)	1.08 (0.73-1.60)	0.92 (0.61-1.39)	0.98 (0.73-1.32)	1.38 (0.98-1.93)	1.11 (0.72-1.72)	0.66 (0.41-1.08)
rs12788360	Per copy	0.99 (0.81-1.20)	0.91 (0.69-1.20)	0.91 (0.67-1.24)	0.88 (0.59-1.32)	0.99 (0.79-1.24)	0.96 (0.68-1.36)	0.94 (0.67-1.33)	0.93 (0.56-1.55)
	Dominant	1.01 (0.78-1.30)	0.94 (0.70-1.26)	0.96 (0.65-1.41)	0.87 (0.55-1.35)	0.98 (0.73-1.32)	1.01 (0.70-1.47)	0.99 (0.64-1.53)	0.88 (0.51-1.51)
rs9971373	Per copy	0.82 (0.68-0.99)	0.96 (0.80-1.14)	0.66 (0.48-0.89)	0.92 (0.71-1.19)	0.86 (0.69-1.07)	0.97 (0.77-1.21)	0.75 (0.53-1.06)	0.89 (0.65-1.24)
	Dominant	0.76 (0.59-0.97)	1.01 (0.80-1.29)	0.61 (0.41-0.90)	1.01 (0.71-1.43)	0.82 (0.61-1.10)	0.99 (0.73-1.34)	0.73 (0.47-1.12)	0.95 (0.62-1.46)
rs2303861	Per copy	1.13 (0.92-1.38)	0.99 (0.82-1.20)	1.27 (0.94-1.72)	0.97 (0.73-1.29)	1.04 (0.82-1.33)	1.02 (0.79-1.30)	1.18 (0.84-1.65)	0.97 (0.68-1.37)
	Dominant	1.13 (0.88-1.46)	0.98 (0.77-1.25)	1.25 (0.85-1.85)	1.02 (0.72-1.44)	1.04 (0.77-1.40)	1.04 (0.77-1.42)	1.18 (0.77-1.82)	1.01 (0.66-1.54)
rs12421108	Per copy	1.16 (0.86-1.56)	1.12 (0.85-1.48)	1.30 (0.84-2.01)	0.88 (0.58-1.34)	1.18 (0.83-1.68)	1.24 (0.88-1.75)	1.18 (0.73-1.92)	0.77 (0.46-1.28)
	Dominant	1.16 (0.84-1.60)	1.17 (0.87-1.57)	1.28 (0.80-2.07)	0.89 (0.57-1.40)	1.20 (0.82-1.75)	1.29 (0.89-1.87)	1.15 (0.68-1.95)	0.74 (0.43-1.26)
rs1139971	Per copy	1.19 (0.99-1.43)	1.09 (0.91-1.30)	1.53 (1.15-2.02)	1.06 (0.82-1.37)	1.12 (0.90-1.39)	1.21 (0.97-1.52)	1.33 (0.97-1.83)	0.87 (0.64-1.19)
	Dominant	1.25 (0.97-1.61)	1.03 (0.75-1.41)	1.81 (1.20-2.72)	1.12 (0.70-1.81)	1.13 (0.84-1.53)	1.08 (0.72-1.61)	1.58 (1.00-2.49)	1.06 (0.60-1.87)

rs6485553*	Per copy	NA	0.83 (0.64-1.07)	NA	0.73 (0.49-1.09)	NA	0.88 (0.64-1.23)	3.78 (0.36-39.3)	0.78 (0.48-1.28)
	Dominant	NA	0.81 (0.61-1.07)	NA	0.76 (0.50-1.16)	NA	0.85 (0.59-1.23)	3.78 (0.36-39.3)	0.85 (0.50-1.43)
rs2849031†	Per copy	1.25 (1.04-1.51)	0.98 (0.82-1.17)	1.14 (0.85-1.52)	1.07 (0.83-1.38)	1.31 (1.06-1.63)	0.89 (0.71-1.12)	0.88 (0.64-1.21)	1.20 (0.88-1.64)
	Dominant	1.36 (1.05-1.76)	0.91 (0.71-1.17)	1.31 (0.88-1.96)	1.03 (0.71-1.50)	1.42 (1.04-1.94)	0.83 (0.60-1.14)	0.94 (0.60-1.47)	1.23 (0.78-1.93)
rs11231156	Per copy	1.22 (1.01-1.47)	0.99 (0.76-1.28)	1.05 (0.78-1.42)	0.91 (0.62-1.35)	1.31 (1.05-1.63)	1.09 (0.79-1.51)	0.80 (0.58-1.11)	0.83 (0.52-1.32)
	Dominant	1.29 (0.99-1.66)	0.99 (0.75-1.32)	1.18 (0.79-1.75)	0.86 (0.56-1.33)	1.37 (1.01-1.87)	1.13 (0.79-1.61)	0.87 (0.56-1.36)	0.77 (0.46-1.29)
MTA2/EML3									
rs2516633	Per copy	1.33 (1.09-1.62)	1.01 (0.84-1.22)	1.17 (0.86-1.58)	1.09 (0.83-1.43)	1.38 (1.10-1.74)	0.90 (0.71-1.15)	0.84 (0.60-1.17)	1.26 (0.91-1.76)
	Dominant	1.46 (1.13-1.87)	1.01 (0.80-1.29)	1.25 (0.85-1.84)	1.14 (0.81-1.62)	1.53 (1.13-2.06)	0.88 (0.65-1.20)	0.81 (0.52-1.25)	1.33 (0.87-2.04)
SIPAI/PCNXL3									
rs931127	Per copy	1.13 (0.95-1.35)	1.16 (0.97-1.39)	1.05 (0.80-1.38)	1.12 (0.86-1.45)	1.17 (0.96-1.44)	1.25 (1.00-1.57)	0.83 (0.62-1.12)	0.87 (0.64-1.18)
	Dominant	1.21 (0.88-1.65)	1.16 (0.91-1.49)	1.27 (0.77-2.09)	1.07 (0.75-1.54)	1.23 (0.85-1.78)	1.28 (0.93-1.77)	0.91 (0.53-1.55)	0.80 (0.51-1.26)
SIPAI									
rs2509948†	Per copy	0.87 (0.72-1.07)	0.84 (0.66-1.07)	0.98 (0.72-1.34)	0.86 (0.60-1.23)	0.80 (0.63-1.02)	0.82 (0.60-1.11)	1.26 (0.90-1.77)	1.06 (0.68-1.66)
	Dominant	0.81 (0.63-1.05)	0.85 (0.65-1.12)	0.96 (0.65-1.43)	0.90 (0.60-1.35)	0.75 (0.55-1.01)	0.81 (0.57-1.16)	1.32 (0.85-2.04)	1.11 (0.68-1.83)
rs3741378	Per copy	1.03 (0.79-1.34)	0.96 (0.79-1.16)	1.22 (0.82-1.82)	0.97 (0.73-1.29)	1.02 (0.75-1.40)	0.94 (0.73-1.20)	1.14 (0.74-1.74)	1.06 (0.76-1.48)
	Dominant	0.96 (0.72-1.29)	0.90 (0.71-1.15)	1.22 (0.79-1.89)	0.96 (0.68-1.36)	0.93 (0.66-1.32)	0.83 (0.61-1.13)	1.26 (0.77-2.05)	1.21 (0.79-1.85)
rs2306364††	Per copy	1.10 (0.93-1.32)	1.18 (0.98-1.41)	0.98 (0.74-1.30)	1.17 (0.90-1.51)	1.13 (0.92-1.39)	1.23 (0.98-1.54)	0.83 (0.62-1.12)	0.90 (0.66-1.24)
	Dominant	1.00 (0.77-1.31)	1.26 (0.99-1.61)	0.90 (0.60-1.36)	1.26 (0.88-1.80)	1.05 (0.77-1.44)	1.27 (0.93-1.74)	0.80 (0.51-1.26)	0.93 (0.60-1.44)
SIPAI/RELA									
rs10896027	Per copy	0.85 (0.71-1.03)	0.76 (0.56-1.04)	0.94 (0.70-1.25)	0.85 (0.53-1.34)	0.82 (0.65-1.02)	0.73 (0.50-1.08)	1.16 (0.84-1.61)	1.13 (0.63-2.01)
	Dominant	0.84 (0.65-1.08)	0.77 (0.55-1.09)	0.93 (0.63-1.38)	0.90 (0.55-1.48)	0.81 (0.60-1.09)	0.71 (0.46-1.10)	1.17 (0.76-1.81)	1.21 (0.66-2.22)
rs11227247†	Per copy	1.06 (0.81-1.38)	1.03 (0.86-1.23)	1.08 (0.72-1.63)	0.94 (0.72-1.22)	1.12 (0.83-1.53)	1.08 (0.86-1.36)	0.97 (0.63-1.50)	0.88 (0.64-1.21)
	Dominant	1.03 (0.77-1.39)	1.04 (0.82-1.31)	1.12 (0.72-1.75)	0.92 (0.65-1.31)	1.08 (0.76-1.53)	1.09 (0.80-1.48)	1.04 (0.63-1.70)	0.84 (0.55-1.28)
BRMS1/RINI									
rs1784029†	Per copy	0.88 (0.73-1.06)	0.89 (0.74-1.07)	0.98 (0.73-1.31)	0.86 (0.65-1.13)	0.80 (0.65-1.00)	0.92 (0.72-1.16)	1.21 (0.89-1.65)	0.97 (0.69-1.37)
	Dominant	0.63 (0.43-0.91)	0.95 (0.75-1.22)	0.93 (0.50-1.74)	0.91 (0.64-1.29)	0.54 (0.36-0.83)	0.91 (0.67-1.25)	1.77 (0.92-3.40)	1.05 (0.68-1.63)
BRMS1									
rs3116068	Per copy	1.08 (0.89-1.33)	1.35 (0.99-1.84)	0.87 (0.62-1.22)	1.07 (0.67-1.73)	1.26 (1.00-1.59)	1.45 (1.00-2.11)	0.68 (0.47-0.97)	0.70 (0.40-1.22)
	Dominant	1.04 (0.81-1.35)	1.42 (1.03-1.98)	0.91 (0.61-1.36)	1.09 (0.65-1.81)	1.23 (0.91-1.66)	1.56 (1.05-2.33)	0.71 (0.45-1.10)	0.67 (0.37-1.20)
rs1052566	Per copy	1.01 (0.83-1.23)	0.88 (0.63-1.23)	0.97 (0.72-1.32)	1.03 (0.65-1.65)	0.98 (0.78-1.24)	0.75 (0.48-1.18)	1.01 (0.71-1.42)	1.54 (0.83-2.86)
	Dominant	1.00 (0.77-1.28)	0.91 (0.64-1.30)	0.96 (0.65-1.41)	1.04 (0.63-1.73)	1.01 (0.75-1.36)	0.78 (0.49-1.24)	0.96 (0.63-1.48)	1.47 (0.78-2.78)
rs948360	Per copy	1.20 (0.90-1.62)	0.97 (0.81-1.16)	1.41 (0.92-2.16)	1.13 (0.87-1.46)	1.05 (0.73-1.51)	0.93 (0.74-1.16)	1.32 (0.83-2.09)	1.23 (0.89-1.71)
	Dominant	1.15 (0.83-1.60)	1.14 (0.81-1.60)	1.35 (0.83-2.19)	1.24 (0.73-2.11)	1.03 (0.70-1.54)	1.02 (0.67-1.55)	1.31 (0.77-2.22)	1.28 (0.67-2.42)
rs11537993	Per copy	0.85 (0.71-1.03)	0.89 (0.63-1.25)	0.95 (0.71-1.27)	1.01 (0.62-1.64)	0.82 (0.65-1.02)	0.93 (0.61-1.42)	1.18 (0.85-1.63)	1.16 (0.61-2.19)
	Dominant	0.80 (0.62-1.03)	0.88 (0.62-1.26)	0.98 (0.66-1.45)	0.93 (0.55-1.57)	0.76 (0.56-1.02)	0.97 (0.63-1.50)	1.28 (0.83-1.97)	0.99 (0.51-1.93)
rs10896112	Per copy	1.17 (0.97-1.40)	1.17 (0.99-1.39)	1.09 (0.81-1.46)	1.09 (0.85-1.40)	1.27 (1.02-1.57)	1.23 (0.99-1.53)	0.84 (0.62-1.14)	0.90 (0.67-1.22)
	Dominant	1.08 (0.84-1.39)	1.23 (0.94-1.61)	1.11 (0.75-1.65)	1.34 (0.90-2.01)	1.17 (0.87-1.58)	1.18 (0.84-1.67)	0.94 (0.61-1.45)	1.19 (0.72-1.94)
rs4930355†††	Per copy	1.00 (0.82-1.22)	0.91 (0.65-1.28)	0.96 (0.71-1.31)	1.01 (0.63-1.64)	0.98 (0.77-1.24)	0.81 (0.52-1.26)	0.99 (0.70-1.41)	1.42 (0.75-2.68)
	Dominant	0.98 (0.76-1.26)	0.96 (0.68-1.37)	0.92 (0.62-1.35)	1.08 (0.65-1.80)	1.01 (0.75-1.36)	0.84 (0.53-1.34)	0.92 (0.59-1.41)	1.42 (0.75-2.68)
MTAI									
rs8009536*	Per copy	0.54 (0.02-18.6)	1.20 (0.94-1.53)	1.53 (0.05-48.0)	1.11 (0.78-1.59)	NA	1.46 (1.08-1.96)	NA	0.75 (0.49-1.13)
	Dominant	0.54 (0.02-18.6)	1.22 (0.93-1.60)	1.53 (0.05-48.0)	1.20 (0.81-1.76)	NA	1.48 (1.06-2.06)	NA	0.82 (0.52-1.31)

rs7492796*	Per copy	1.91 (0.50-7.30)	1.14 (0.94-1.40)	2.51 (0.48-13.1)	1.04 (0.78-1.40)	1.60 (0.29-8.97)	1.30 (1.01-1.66)	2.31 (0.37-14.5)	0.78 (0.54-1.12)
	Dominant	1.91 (0.50-7.30)	1.24 (0.98-1.59)	2.51 (0.48-13.1)	1.24 (0.87-1.77)	1.60 (0.29-8.97)	1.41 (1.03-1.92)	2.31 (0.37-14.5)	0.88 (0.57-1.36)
rs10131764 *	Per copy	0.58 (0.13-2.69)	0.94 (0.76-1.16)	0.48 (0.04-6.05)	0.99 (0.73-1.34)	0.60 (0.09-3.88)	0.83 (0.63-1.10)	0.85 (0.07-9.80)	1.24 (0.84-1.84)
	Dominant	0.58 (0.13-2.69)	0.97 (0.76-1.24)	0.48 (0.04-6.05)	1.09 (0.76-1.56)	0.60 (0.09-3.88)	0.84 (0.61-1.15)	0.85 (0.07-9.80)	1.33 (0.86-2.07)
rs7161158*	Per copy	1.28 (0.30-5.54)	1.10 (0.83-1.45)	1.34 (0.15-12.2)	0.99 (0.65-1.52)	1.17 (0.19-7.09)	1.11 (0.78-1.58)	0.97 (0.09-11.0)	0.86 (0.53-1.40)
	Dominant	1.28 (0.30-5.54)	1.00 (0.73-1.37)	1.34 (0.15-12.2)	0.96 (0.60-1.51)	1.17 (0.19-7.09)	1.00 (0.67-1.49)	0.97 (0.09-11.0)	0.91 (0.52-1.60)
rs6576104*	Per copy	0.64 (0.21-1.97)	1.04 (0.86-1.26)	0.30 (0.03-3.16)	1.02 (0.77-1.34)	0.61 (0.15-2.49)	0.99 (0.77-1.26)	0.73 (0.07-7.26)	1.04 (0.74-1.46)
	Dominant	0.63 (0.20-1.97)	1.06 (0.83-1.35)	0.30 (0.03-3.16)	1.04 (0.73-1.47)	0.61 (0.15-2.49)	1.02 (0.75-1.40)	0.73 (0.07-7.26)	1.04 (0.68-1.60)
MTA1/CRIP2									
rs8008685*	Per copy	1.30 (0.35-4.77)	1.22 (0.90-1.66)	1.41 (0.22-9.17)	1.02 (0.64-1.61)	1.29 (0.27-6.18)	1.26 (0.85-1.86)	0.94 (0.14-6.33)	0.73 (0.42-1.27)
	Dominant	1.30 (0.35-4.77)	1.22 (0.90-1.66)	1.41 (0.22-9.17)	1.02 (0.64-1.61)	1.29 (0.27-6.18)	1.26 (0.85-1.86)	0.94 (0.14-6.33)	0.73 (0.42-1.27)
CDH1/CDH3									
rs9940250	Per copy	0.97 (0.73-1.30)	0.87 (0.73-1.04)	0.92 (0.58-1.45)	0.76 (0.59-0.99)	0.98 (0.69-1.37)	0.99 (0.79-1.24)	1.02 (0.62-1.67)	0.72 (0.52-0.99)
	Dominant	0.97 (0.71-1.33)	0.82 (0.65-1.05)	0.93 (0.57-1.52)	0.69 (0.48-0.97)	0.97 (0.67-1.41)	0.97 (0.71-1.32)	1.06 (0.62-1.80)	0.66 (0.43-1.02)
CDH1									
rs9932773*	Per copy	NA	1.02 (0.78-1.34)	NA	0.93 (0.62-1.39)	NA	1.14 (0.82-1.59)	NA	0.71 (0.44-1.17)
	Dominant	NA	1.02 (0.76-1.38)	NA	0.96 (0.62-1.48)	NA	1.13 (0.77-1.65)	NA	0.74 (0.43-1.26)
rs17772363†	Per copy	1.02 (0.85-1.23)	1.18 (0.94-1.49)	1.09 (0.82-1.45)	1.11 (0.79-1.56)	0.99 (0.79-1.24)	1.15 (0.86-1.54)	1.03 (0.74-1.43)	1.00 (0.65-1.54)
	Dominant	1.05 (0.82-1.35)	1.27 (0.97-1.65)	1.16 (0.79-1.71)	1.32 (0.90-1.93)	1.02 (0.76-1.37)	1.18 (0.84-1.66)	1.03 (0.67-1.59)	1.17 (0.73-1.87)
rs11642413	Per copy	1.01 (0.84-1.21)	0.95 (0.79-1.14)	0.99 (0.75-1.32)	1.07 (0.83-1.39)	1.02 (0.83-1.27)	0.88 (0.69-1.11)	1.01 (0.74-1.38)	1.35 (0.96-1.89)
	Dominant	0.99 (0.71-1.37)	0.99 (0.78-1.26)	1.06 (0.64-1.77)	1.14 (0.80-1.62)	0.97 (0.66-1.43)	0.89 (0.66-1.22)	1.20 (0.68-2.14)	1.42 (0.92-2.20)
rs9941051†	Per copy	1.01 (0.75-1.36)	0.94 (0.73-1.21)	0.95 (0.60-1.52)	0.84 (0.57-1.23)	1.07 (0.76-1.51)	1.02 (0.75-1.40)	0.96 (0.57-1.61)	0.74 (0.48-1.15)
	Dominant	1.04 (0.76-1.43)	0.89 (0.67-1.17)	1.01 (0.62-1.66)	0.86 (0.57-1.29)	1.10 (0.76-1.60)	0.91 (0.64-1.30)	1.00 (0.58-1.71)	0.84 (0.51-1.40)
rs11075699	Per copy	1.07 (0.89-1.28)	0.95 (0.78-1.17)	1.09 (0.82-1.45)	0.94 (0.71-1.26)	1.05 (0.85-1.29)	0.92 (0.71-1.20)	1.06 (0.78-1.45)	1.11 (0.77-1.59)
	Dominant	1.05 (0.80-1.37)	0.92 (0.72-1.18)	1.21 (0.80-1.84)	0.83 (0.58-1.20)	1.00 (0.73-1.36)	0.92 (0.68-1.27)	1.29 (0.81-2.06)	0.98 (0.62-1.53)
rs12597188	Per copy	1.03 (0.86-1.23)	0.97 (0.81-1.16)	0.97 (0.73-1.28)	0.89 (0.68-1.17)	1.03 (0.83-1.28)	1.03 (0.82-1.30)	0.88 (0.64-1.22)	0.85 (0.61-1.19)
	Dominant	1.05 (0.82-1.36)	1.01 (0.80-1.29)	0.98 (0.66-1.45)	0.96 (0.68-1.36)	1.08 (0.80-1.45)	1.10 (0.81-1.50)	0.83 (0.53-1.28)	0.91 (0.59-1.39)
rs17715799	Per copy	0.99 (0.82-1.19)	1.14 (0.94-1.39)	0.93 (0.70-1.25)	1.12 (0.84-1.50)	1.01 (0.81-1.26)	1.16 (0.91-1.49)	0.88 (0.64-1.22)	0.95 (0.67-1.35)
	Dominant	0.96 (0.75-1.23)	1.18 (0.92-1.50)	0.92 (0.62-1.36)	1.23 (0.87-1.75)	1.00 (0.74-1.34)	1.15 (0.84-1.57)	0.85 (0.56-1.31)	1.08 (0.70-1.66)
rs4783686†	Per copy	1.01 (0.84-1.21)	1.13 (0.86-1.47)	0.96 (0.72-1.28)	1.07 (0.71-1.60)	1.03 (0.83-1.28)	1.25 (0.90-1.73)	0.89 (0.65-1.23)	0.88 (0.55-1.43)
	Dominant	1.00 (0.78-1.28)	1.15 (0.85-1.55)	0.98 (0.66-1.44)	1.16 (0.74-1.81)	1.03 (0.77-1.39)	1.26 (0.87-1.83)	0.88 (0.57-1.36)	0.93 (0.55-1.58)
rs10431923	Per copy	0.99 (0.83-1.18)	0.90 (0.75-1.09)	0.92 (0.70-1.21)	0.89 (0.67-1.17)	1.00 (0.81-1.23)	0.86 (0.68-1.10)	0.94 (0.70-1.27)	1.07 (0.75-1.54)
	Dominant	0.99 (0.74-1.32)	0.95 (0.74-1.20)	0.98 (0.63-1.53)	1.06 (0.75-1.50)	0.94 (0.67-1.31)	0.87 (0.64-1.19)	1.09 (0.66-1.77)	1.21 (0.79-1.86)
rs4783573	Per copy	1.05 (0.87-1.28)	1.00 (0.85-1.19)	1.15 (0.86-1.55)	1.25 (0.97-1.61)	0.99 (0.79-1.24)	0.88 (0.71-1.09)	1.16 (0.83-1.62)	1.43 (1.05-1.96)
	Dominant	1.18 (0.92-1.52)	0.98 (0.72-1.33)	1.38 (0.93-2.05)	1.43 (0.87-2.36)	1.04 (0.78-1.40)	0.82 (0.57-1.19)	1.32 (0.85-2.04)	1.68 (0.93-3.01)
rs7188750	Per copy	0.97 (0.77-1.22)	0.89 (0.75-1.06)	0.88 (0.61-1.29)	0.81 (0.62-1.04)	1.05 (0.80-1.37)	0.95 (0.76-1.18)	0.83 (0.55-1.24)	0.85 (0.63-1.16)
	Dominant	0.95 (0.72-1.24)	0.81 (0.63-1.03)	0.91 (0.60-1.40)	0.67 (0.47-0.95)	1.00 (0.73-1.37)	0.89 (0.65-1.22)	0.90 (0.56-1.44)	0.72 (0.47-1.11)
rs8056633	Per copy	0.98 (0.79-1.21)	0.85 (0.72-1.01)	0.91 (0.65-1.28)	0.71 (0.55-0.91)	1.03 (0.80-1.31)	0.91 (0.73-1.13)	0.88 (0.60-1.27)	0.77 (0.57-1.04)
	Dominant	1.03 (0.79-1.33)	0.76 (0.54-1.06)	1.06 (0.71-1.57)	0.61 (0.38-0.97)	1.01 (0.75-1.37)	0.74 (0.49-1.14)	1.03 (0.66-1.60)	0.78 (0.44-1.37)
rs3785076*	Per copy	1.10 (0.70-1.73)	0.88 (0.74-1.05)	0.94 (0.44-1.97)	0.81 (0.63-1.05)	1.28 (0.77-2.13)	0.87 (0.69-1.09)	0.74 (0.34-1.62)	0.95 (0.69-1.31)
	Dominant	1.08 (0.68-1.73)	0.88 (0.69-1.13)	0.95 (0.45-2.02)	0.79 (0.55-1.13)	1.24 (0.73-2.12)	0.86 (0.63-1.18)	0.76 (0.34-1.71)	0.91 (0.59-1.42)
rs16958383	Per copy	0.99 (0.78-1.25)	1.08 (0.90-1.30)	0.87 (0.59-1.28)	1.03 (0.79-1.35)	0.99 (0.75-1.31)	1.06 (0.84-1.34)	0.83 (0.54-1.28)	0.94 (0.67-1.32)
	Dominant	1.03 (0.78-1.36)	1.18 (0.92-1.49)	0.93 (0.60-1.44)	1.13 (0.80-1.60)	1.00 (0.72-1.38)	1.14 (0.84-1.55)	0.89 (0.55-1.44)	0.94 (0.61-1.44)

rs9935563	Per copy	1.15 (0.96-1.38)	1.38 (1.06-1.78)	1.28 (0.97-1.71)	1.57 (1.10-2.24)	1.06 (0.85-1.31)	1.38 (0.99-1.91)	1.21 (0.89-1.65)	1.27 (0.82-1.97)
	Dominant	1.20 (0.93-1.55)	1.40 (1.05-1.88)	1.65 (1.09-2.50)	1.65 (1.10-2.47)	0.98 (0.73-1.32)	1.36 (0.94-1.96)	1.64 (1.04-2.58)	1.29 (0.79-2.12)
rs9925080*	Per copy	0.81 (0.48-1.36)	0.77 (0.58-1.02)	0.79 (0.35-1.80)	0.52 (0.32-0.84)	0.86 (0.47-1.58)	0.96 (0.68-1.37)	1.04 (0.43-2.51)	0.59 (0.33-1.05)
	Dominant	0.81 (0.48-1.38)	0.76 (0.56-1.04)	0.80 (0.35-1.84)	0.50 (0.29-0.84)	0.87 (0.47-1.61)	0.97 (0.66-1.42)	1.04 (0.43-2.51)	0.56 (0.30-1.03)
rs8061932	Per copy	0.89 (0.70-1.13)	0.90 (0.76-1.07)	0.78 (0.53-1.14)	0.78 (0.61-1.00)	0.88 (0.66-1.16)	0.96 (0.78-1.20)	0.88 (0.58-1.35)	0.79 (0.57-1.08)
	Dominant	0.93 (0.71-1.21)	1.00 (0.75-1.35)	0.87 (0.57-1.32)	0.84 (0.55-1.28)	0.88 (0.64-1.20)	1.04 (0.71-1.53)	0.96 (0.60-1.52)	0.77 (0.46-1.29)
rs2276329	Per copy	0.97 (0.68-1.36)	0.84 (0.65-1.10)	0.84 (0.48-1.47)	0.80 (0.54-1.19)	1.07 (0.72-1.59)	0.89 (0.63-1.25)	0.81 (0.44-1.48)	0.89 (0.56-1.43)
	Dominant	0.97 (0.68-1.39)	0.79 (0.59-1.07)	0.86 (0.48-1.53)	0.78 (0.50-1.21)	1.05 (0.69-1.60)	0.82 (0.56-1.20)	0.86 (0.46-1.62)	0.93 (0.54-1.60)
CDHI/TMCO7									
rs17690554	Per copy	0.98 (0.78-1.24)	0.88 (0.70-1.12)	0.96 (0.66-1.39)	0.82 (0.57-1.17)	1.06 (0.81-1.39)	1.00 (0.75-1.34)	0.85 (0.57-1.26)	0.80 (0.53-1.22)
	Dominant	0.93 (0.71-1.22)	0.84 (0.64-1.11)	0.99 (0.65-1.50)	0.77 (0.52-1.16)	0.97 (0.70-1.33)	0.97 (0.69-1.37)	0.96 (0.60-1.53)	0.78 (0.48-1.28)
NME1/SPAG9									
rs16949649	Per copy	1.03 (0.86-1.24)	0.85 (0.71-1.01)	0.87 (0.65-1.16)	0.94 (0.73-1.21)	1.12 (0.90-1.39)	0.78 (0.62-0.99)	0.77 (0.57-1.05)	1.20 (0.87-1.65)
	Dominant	0.95 (0.73-1.23)	0.83 (0.65-1.06)	0.76 (0.51-1.13)	0.86 (0.60-1.23)	1.07 (0.78-1.45)	0.83 (0.60-1.13)	0.71 (0.45-1.10)	1.02 (0.66-1.57)
rs2302254	Per copy	1.21 (0.96-1.52)	0.89 (0.74-1.07)	1.20 (0.85-1.70)	1.03 (0.80-1.34)	1.26 (0.96-1.65)	0.78 (0.61-1.00)	0.95 (0.64-1.39)	1.33 (0.95-1.88)
	Dominant	1.27 (0.98-1.66)	0.96 (0.76-1.22)	1.18 (0.78-1.78)	1.07 (0.75-1.51)	1.36 (0.99-1.85)	0.88 (0.65-1.20)	0.89 (0.57-1.40)	1.17 (0.76-1.79)
NME1/NME2									
rs11868380	Per copy	0.86 (0.69-1.07)	0.79 (0.57-1.09)	0.67 (0.47-0.97)	0.73 (0.45-1.20)	0.92 (0.71-1.18)	0.93 (0.63-1.37)	0.73 (0.49-1.08)	0.84 (0.47-1.52)
	Dominant	0.82 (0.63-1.06)	0.75 (0.53-1.07)	0.63 (0.41-0.95)	0.66 (0.38-1.14)	0.86 (0.64-1.17)	0.92 (0.60-1.40)	0.70 (0.44-1.12)	0.75 (0.39-1.44)
NME1									
rs2318784	Per copy	1.18 (0.87-1.61)	0.85 (0.64-1.15)	1.36 (0.85-2.17)	0.90 (0.59-1.37)	1.21 (0.85-1.73)	0.79 (0.53-1.16)	1.18 (0.73-1.91)	1.14 (0.66-1.97)
	Dominant	1.12 (0.81-1.55)	0.88 (0.65-1.20)	1.38 (0.86-2.21)	0.92 (0.58-1.43)	1.10 (0.75-1.61)	0.82 (0.54-1.23)	1.38 (0.81-2.33)	1.11 (0.63-1.94)
SNAI1									
rs4647955†††	Per copy	1.09 (0.86-1.38)	0.96 (0.80-1.15)	0.90 (0.62-1.31)	0.88 (0.68-1.13)	1.24 (0.94-1.63)	1.03 (0.82-1.29)	0.68 (0.44-1.05)	0.86 (0.61-1.20)
	Dominant	1.14 (0.86-1.50)	1.06 (0.74-1.51)	0.78 (0.49-1.22)	0.95 (0.57-1.59)	1.41 (1.03-1.94)	1.21 (0.76-1.94)	0.53 (0.33-0.88)	0.85 (0.44-1.64)
rs6020177	Per copy	1.07 (0.85-1.36)	0.93 (0.77-1.11)	0.85 (0.58-1.25)	0.82 (0.63-1.05)	1.23 (0.93-1.61)	0.99 (0.79-1.24)	0.65 (0.43-1.01)	0.84 (0.61-1.16)
	Dominant	1.10 (0.84-1.45)	0.92 (0.65-1.30)	0.72 (0.46-1.14)	0.81 (0.50-1.32)	1.37 (1.00-1.88)	1.00 (0.64-1.57)	0.51 (0.31-0.84)	0.87 (0.48-1.61)
rs6091080	Per copy	0.96 (0.78-1.19)	0.95 (0.80-1.13)	0.72 (0.51-1.01)	0.91 (0.71-1.17)	1.11 (0.87-1.41)	0.98 (0.78-1.22)	0.62 (0.42-0.90)	0.91 (0.66-1.25)
	Dominant	0.96 (0.75-1.25)	0.95 (0.75-1.22)	0.61 (0.40-0.93)	1.09 (0.76-1.57)	1.19 (0.88-1.61)	0.94 (0.68-1.29)	0.50 (0.32-0.79)	1.11 (0.71-1.73)
rs1543442	Per copy	1.05 (0.87-1.27)	1.05 (0.84-1.32)	0.97 (0.72-1.29)	1.22 (0.89-1.67)	1.04 (0.84-1.30)	0.96 (0.72-1.29)	0.96 (0.68-1.34)	1.22 (0.83-1.81)
	Dominant	1.19 (0.92-1.54)	1.06 (0.82-1.38)	1.08 (0.73-1.59)	1.22 (0.84-1.76)	1.17 (0.86-1.58)	0.99 (0.71-1.38)	0.97 (0.63-1.52)	1.21 (0.76-1.91)
rs1047920	Per copy	0.83 (0.60-1.16)	1.13 (0.89-1.42)	0.73 (0.42-1.26)	1.22 (0.88-1.70)	0.91 (0.62-1.34)	1.07 (0.79-1.45)	0.76 (0.42-1.37)	1.08 (0.73-1.61)
	Dominant	0.81 (0.57-1.16)	1.10 (0.84-1.43)	0.69 (0.39-1.24)	1.22 (0.84-1.78)	0.90 (0.60-1.35)	1.02 (0.73-1.44)	0.73 (0.38-1.37)	1.12 (0.70-1.80)
rs16995019	Per copy	0.99 (0.69-1.42)	1.19 (0.96-1.49)	0.79 (0.43-1.44)	1.36 (0.99-1.87)	1.20 (0.80-1.80)	1.02 (0.77-1.36)	0.64 (0.34-1.21)	1.26 (0.87-1.83)
	Dominant	0.96 (0.66-1.40)	1.10 (0.85-1.41)	0.72 (0.38-1.36)	1.38 (0.97-1.97)	1.19 (0.79-1.81)	0.89 (0.64-1.24)	0.58 (0.30-1.14)	1.56 (1.00-2.44)
rs6067309	Per copy	0.92 (0.77-1.10)	1.02 (0.79-1.31)	1.19 (0.90-1.56)	0.95 (0.65-1.38)	0.81 (0.65-1.01)	1.05 (0.76-1.44)	1.49 (1.08-2.05)	0.87 (0.55-1.38)
	Dominant	0.96 (0.74-1.25)	1.00 (0.75-1.32)	1.37 (0.90-2.09)	0.92 (0.60-1.39)	0.81 (0.60-1.09)	1.04 (0.73-1.48)	1.63 (1.03-2.58)	0.82 (0.49-1.38)

AA = African-American; EA = European-American; LN = lymph node.

Unconditional logistic regression was used to estimate odds ratios (OR) and 95% confidence intervals (CI), with adjustment for age and proportion of European ancestry.

Results for the additive/allelic (per copy) and dominant models are shown. NA indicates that the OR/CI could not be estimated because no participants had the variant genotypes in the case and/or control groups. P-values were adjusted for multiple comparisons using the false discovery rate method; after correction, none of the associations remained statistically significant.

* and ** denote SNPs that were excluded from pathway analyses in EA and AA, respectively, because of minor allele frequency (MAF) < 0.05.

† and †† denote SNPs that were in linkage disequilibrium ($r^2 > 0.80$) with another SNP in EA and AA, respectively, and were excluded from pathway analyses.

Supplementary Table 5. ARTP gene and pathway p-values in European-American and African-American women.

Gene	N, SNPs	All cases v. controls	ER+ cases v. controls	ER- cases v. controls	ER- v. ER+ cases	Invasive cases v. controls	LN+ cases v. controls	LN- cases v. controls	LN+ v. LN- cases
European-American									
KISS1	5	0.17	0.51	0.13	0.30	0.20	0.89	0.10	0.53
MTA3	9	0.81	0.32	0.80	0.35	0.64	0.59	0.55	0.88
CDH1	14	0.48	0.85	0.71	0.72	0.72	0.54	0.99	0.88
SNAI1	6	0.66	0.64	0.79	0.92	0.70	0.10	0.21	0.01
BRMS1	5	0.79	0.91	0.36	0.28	0.32	0.62	0.13	0.42
CD82	22	0.53	0.36	0.78	0.29	0.44	0.05	0.73	0.19
SIPA1	4	0.16	0.13	0.96	0.70	0.26	0.71	0.21	0.51
MTA2	2	0.004	0.02	0.08	0.46	0.01	0.38	0.01	0.26
SATB1	15	0.91	0.62	0.03	0.14	0.55	0.33	0.45	0.54
NME1	4	0.71	0.54	0.31	0.64	0.24	0.10	0.18	0.30
CTNNB1	1	0.61	0.41	0.56	0.31	0.86	0.09	0.68	0.06
Pathway		0.10	0.31	0.33	0.73	0.11	0.26	0.15	0.21
African-American									
MTA1	6	0.34	0.27	0.58	0.55	0.34	0.71	0.11	0.67
KISS1	8	0.67	0.53	0.21	0.38	0.86	0.27	0.44	0.58
MTA3	15	0.21	0.64	0.49	0.43	0.49	0.23	0.65	0.43
CDH1	20	0.42	0.17	0.12	0.46	0.30	0.10	0.80	0.33
SNAI1	6	0.26	0.27	0.88	0.59	0.92	0.34	0.97	0.24
BRMS1	6	0.62	0.78	0.49	0.18	0.17	0.90	0.13	0.63
CD82	24	0.71	0.84	0.39	0.45	0.94	0.47	0.72	0.88
SIPA1	5	0.48	0.38	0.10	0.09	0.34	0.88	0.20	0.85
MTA2	3	0.89	0.95	0.78	0.61	0.99	0.79	0.63	0.39
SATB1	21	0.98	0.80	0.53	0.52	0.90	0.35	0.51	0.55
NME1	4	0.22	0.22	0.90	0.74	0.22	0.38	0.12	0.65
CTNNB1	4	0.79	0.39	0.74	0.55	0.38	0.71	0.19	0.48
Pathway		0.90	0.83	0.75	0.79	0.85	0.79	0.54	0.95

After linkage disequilibrium filtering in EA participants, no SNPs in MTA1 remained for inclusion. Permutation p-values were obtained by permuting the response vector 10,000 times for each outcome. Gene and pathway p-values were obtained using the ARTP method with default truncation points.

Supplementary Figure 1. Predicted gene interaction network identified using GeneMANIA.

