

Supplementary Table 1: Genotype frequency for each of the 19 SNPs having a combined P -value $<5.0 \times 10^{-7}$ in combined GWAS (with evidence of an association at $P < 0.05$ in both German and UK datasets).

SNP	Chr	Position	Risk Allele	Meta P-value	UK P-value	German P-value	UK AAcase	UK ABcase	UK BBcase	UK AAcon	UK ABcon	UK BBcon	German AAcase	German ABcase	German BBcase	German AAcon	German ABcon	German BBcon
rs4487645	7	21904765	C	2.96E-13	1.07E-09	2.66E-05	669	548	103	2216	2333	646	206	126	22	320	300	83
rs7971	7	21907485	A	4.04E-13	1.32E-10	7.06E-04	636	561	115	2072	2411	711	188	139	26	304	314	85
rs4636103	7	21904513	G	3.30E-12	2.55E-09	2.34E-04	553	609	159	1795	2486	913	169	143	42	262	310	131
rs1128226	7	21908194	A	9.32E-12	4.64E-09	3.72E-04	632	529	148	1996	2478	719	163	161	30	258	337	105
rs12234262	7	21915828	A	1.79E-10	3.10E-07	3.91E-05	574	573	173	1847	2509	838	156	158	40	227	348	128
rs12537531	7	21898569	A	2.60E-09	5.65E-07	8.59E-04	301	639	381	879	2564	1754	83	171	100	122	315	266
rs35469450	7	21905907	G	4.69E-08	7.55E-05	8.36E-06	141	576	603	411	2148	2637	47	147	160	36	268	385
rs1052501	3	41900402	G	5.62E-08	8.65E-07	2.15E-02	54	422	845	137	1391	3668	10	118	226	17	185	502
rs2128835	3	41837877	G	5.79E-08	9.84E-07	1.92E-02	53	422	846	136	1384	3664	10	118	226	17	184	503
rs6461614	7	21895052	G	6.83E-08	5.18E-06	2.86E-03	461	640	218	1521	2580	1079	148	150	55	223	345	135
rs2272007	3	41971140	A	7.93E-08	1.20E-06	2.20E-02	53	423	844	139	1388	3664	10	117	226	17	184	503
rs6599175	3	41761013	G	8.85E-08	2.91E-06	8.31E-03	56	420	845	143	1405	3648	11	118	225	15	185	504
rs1994157	3	41872486	A	1.14E-07	1.43E-06	2.72E-02	52	420	848	133	1388	3677	10	116	228	17	183	503
rs1125203	3	41735899	G	1.27E-07	3.14E-06	1.19E-02	56	420	845	143	1406	3646	11	117	226	15	186	503
rs17215589	3	41806207	A	1.39E-07	1.01E-06	4.88E-02	47	388	886	110	1275	3809	9	105	239	15	169	519
rs2390595	7	21881989	A	2.02E-07	5.52E-06	1.11E-02	238	655	427	734	2474	1975	75	168	111	118	312	273
rs3774372	3	41852418	G	2.57E-07	1.06E-06	8.59E-02	54	419	847	139	1380	3677	10	115	229	19	181	481
rs6746082	2	25512748	A	2.99E-07	4.17E-05	8.21E-04	889	392	40	3202	1758	238	247	97	10	415	258	31
rs7577599	2	25613146	A	3.37E-07	4.74E-05	7.94E-04	954	332	35	3430	1596	169	262	86	6	451	228	25

Supplementary Table 2: Details of transcription factor binding sites (TFBSs) as predicted by Transfac Matrix Database and PReMod (using binding profiles from the JASPAR2 database). "Score" refers to the confidence value assigned to each predicted binding region by the three different programs. For comparison, the observed and imputed SNPs and associated SNP-Test *P*-values are shown. The genotyped SNP with the most significant association is highlighted in yellow; imputed SNPs showing a more significant association are highlighted in red.

7p15.3 (rs4487645)

Gene region	rsID	SNP type	<i>P</i> -value	TF type	Source	Score	Chrom start	Chrom end
	rs10950880	Genotyped	0.657				21866713	
	rs6461611	Imputed	0.446				21866786	
	rs6461612	Imputed	0.446				21866791	
	rs4722066	Genotyped	4.00E-02				21867449	
	rs35161061	Imputed	0.181				21867532	
DNAH11_Exon_70							21867996	21868166
	rs4722067	Genotyped	9.83E-02				21868091	
				AREB6	TransFac	2.08	21868118	21868127
DNAH11_Intron_70							21868167	21870677
	rs10226082	Imputed	0.106				21868760	
	rs13309092	Imputed	0.106				21869223	
	rs12154430	Imputed	0.455				21870169	
	rs6959457	Imputed	0.183				21870353	
				POU2F1	TransFac	2.27	21870504	21870518
DNAH11_Exon_71							21870678	21870800
				LCR-F1	TransFac	3.48	21870769	21870791
DNAH11_Intron_71							21870801	21872612
	rs12700315	Imputed	0.474				21872157	
	rs12700316	Imputed	0.182				21872256	
	rs12700317	Imputed	7.56E-02				21872502	
DNAH11_Exon_72							21872613	21872806
				LCR-F1	TransFac	2.54	21872781	21872794
DNAH11_Intron_72							21872807	21874001
	rs17145743	Imputed	0.212				21873109	
	rs10485986	Imputed	5.50E-09				21873202	
				ARP-1	TransFac	2.26	21873304	21873320
				E2F	TransFac	2.77	21873637	21873652
				mod102940	PreMod	11	21873643	21874472
				Nkx3-1	TransFac	2.26	21873677	21873689
	rs2074329	Imputed	2.11E-02				21873900	
	rs4995598	Imputed	0.468				21873983	
DNAH11_Exon_73							21874002	21874150
DNAH11_Intron_73							21874151	21875006
	rs11773744	Imputed	7.06E-02				21874221	
				Cart-1	TransFac	4.41	21874453	21874471
	rs757132	Imputed	0.745				21874516	
				CUTL1	TransFac	2.3	21874741	21874751
				Pbx1a	TransFac	2.81	21874741	21874756
				POU3F2	TransFac	2.74	21874768	21874778
				E47	TransFac	3.05	21874941	21874957
	rs67401326	Imputed	0.150				21874970	
DNAH11_Exon_74							21875007	21875134
DNAH11_Intron_74							21875135	21879416
	rs10485987	Genotyped	0.424				21875489	
	rs886313	Imputed	3.78E-08				21875606	
	rs12539597	Genotyped	0.572				21876392	
	rs17145802	Imputed	0.125				21876633	

	rs11766053	Imputed	3.25E-09					21877097	
	rs11976832	Imputed	0.121					21877456	
	rs17145807	Imputed	0.119					21877857	
	rs11767041	Imputed	0.584					21878181	
	rs73279872	Imputed	0.117					21878348	
	rs10254159	Genotyped	0.302					21878675	
	rs10254192	Imputed	8.97E-02					21878729	
	rs11761264	Imputed	9.61E-10					21879001	
				HSF1	TransFac	2.34		21879414	21879424
DNAH11_Exon_75								21879417	21879644
				LUN-1	TransFac	2.22		21879429	21879446
				Nkx6-1	TransFac	2.1		21879567	21879580
DNAH11_Intron_75								21879645	21886844
	rs17361667	Imputed	1.90E-11					21881515	
	rs17361723	Imputed	2.55E-06					21881967	
	rs2390595	Genotyped	1.91E-07					21881989	
	rs2893060	Imputed	1.21E-02					21882130	
	rs35107743	Imputed	2.16E-06					21882218	
	rs6964220	Imputed	2.84E-05					21883741	
	rs13308113	Imputed	2.66E-07					21883885	
				RSRFC4	TransFac	2.63		21884747	21884763
	rs10261104	Genotyped	9.58E-03					21885670	
	rs73077549	Imputed	4.19E-02					21885720	
	rs6979604	Imputed	1.14E-06					21886252	
	rs11763022	Imputed	1.16E-11					21886571	
	rs11763025	Imputed	2.87E-11					21886690	
DNAH11_Exon_76								21886845	21887036
DNAH11_Intron_76								21887037	21890433
	rs62445884	Imputed	1.07E-06					21887081	
				FOXC1	TransFac	2.65		21887173	21887189
				mod102941	PreMod	15		21887287	21887746
				POU3F2	TransFac	2.65		21887292	21887302
				Cdc5	TransFac	1.99		21887292	21887304
				FOXO4	TransFac	2.04		21887293	21887307
				FOXO4	TransFac	2.52		21887307	21887321
				POU2F1	TransFac	1.96		21887345	21887358
				POU2F1	TransFac	2.12		21887351	21887374
	rs10269223	Imputed	9.82E-03					21887379	
				POU2F1	TransFac	2.32		21887489	21887503
				POU3F2	TransFac	2.49		21887503	21887519
	rs7350056	Genotyped	1.11E-05					21889080	
	rs7349999	Genotyped	7.23E-06					21889091	
				POU2F1	TransFac	2.08		21889257	21889280
				Meis-1	TransFac	2.03		21889329	21889341
				POU2F1	TransFac	3.36		21889450	21889464
				AP-1	TransFac	2.11		21889869	21889880
	rs57437438	Imputed	3.44E-07					21889897	
	rs34824239	Imputed	3.74E-03					21889909	
	rs4439007	Imputed	3.27E-07					21890392	
DNAH11_Exon_77								21890434	21890553
				Pax-2	TransFac	2.07		21890483	21890502
	rs6461613	Imputed	0.252					21890539	
DNAH11_Intron_77								21890554	21898567
	rs6963989	Imputed	1.36E-06					21890764	
	rs6978105	Imputed	0.415					21891313	
	rs74445951	Imputed	0.416					21891332	
	rs6978557	Imputed	0.424					21891482	
	rs11769521	Imputed	7.70E-12					21891630	
	rs11770434	Imputed	5.74E-07					21892381	
	rs11763709	Imputed	2.92E-11					21892503	
	rs11763665	Imputed	2.92E-11					21892511	
				FOXF2	TransFac	2.41		21892721	21892737
	rs35900877	Imputed	0.465					21892758	
				FOXO4	TransFac	1.96		21893125	21893139

	rs12154628	Imputed	1.79E-06			21893175	
	rs62445889	Imputed	6.92E-02			21893287	
	rs7785157	Imputed	2.25E-12			21893607	
	rs62445890	Imputed	0.833			21894076	
	rs62445891	Imputed	6.17E-02			21894181	
	rs117819282	Imputed	0.844			21894423	
	rs57104699	Imputed	2.29E-12			21894604	
	rs12534688	Imputed	2.86E-02			21894841	
	rs6461614	Genotyped	6.35E-08			21895052	
	rs34894075	Imputed	1.04E-06			21895097	
	rs114887210	Imputed	0.833			21895382	
	rs7778522	Imputed	5.06E-02			21895789	
	rs6948632	Imputed	2.29E-12			21895977	
	rs4392794	Genotyped	9.11E-03			21896100	
	rs62445892	Imputed	4.83E-02			21896196	
	rs6949101	Genotyped	7.74E-07			21896281	
	rs60626359	Imputed	1.75E-02			21896429	
	rs112075312	Imputed	5.28E-02			21896753	
	rs55654636	Imputed	0.402			21897096	
	rs62445896	Imputed	1.73E-02			21897220	
	rs35907340	Imputed	9.69E-07			21897787	
	rs12700323	Imputed	9.63E-07			21898111	
DNAH11_Exon_78						21898568	21898810
	rs12537531	Genotyped	2.34E-09			21898569	
DNAH11_Intron_78						21898811	21900765
	rs9639401	Genotyped	2.61E-02			21898842	
	rs9639402	Imputed	1.09E-02			21899073	
	rs12533084	Imputed	1.52E-02			21899401	
	rs12533111	Imputed	2.25E-10			21899498	
	rs9639403	Imputed	0.237			21900008	
	rs9638793	Imputed	0.792			21900349	
	rs4624929	Imputed	1.82E-10			21900449	
	rs4484586	Imputed	1.48E-02			21900470	
DNAH11_Exon_79						21900766	21900948
				POU2F1	TransFac	2.66	
						21900820	21900843
DNAH11_Intron_79						21900949	21901026
DNAH11_Exon_80						21901027	21901142
DNAH11_Intron_80						21901143	21905478
	rs62445897	Imputed	1.47E-02			21901935	
	rs1139225	Genotyped	0.390			21902511	
	rs1139224	Imputed	0.421			21902569	
	rs75341503	Imputed	9.94E-14			21903223	
	rs7808371	Imputed	0.747			21903382	
	rs12700324	Imputed	1.12E-06			21903681	
	rs61114344	Imputed	1.30E-02			21903920	
	rs117959121	Imputed	0.802			21904298	
	rs4636103	Genotyped	2.74E-12			21904513	
	rs4487645	Genotyped	2.21E-13			21904765	
	rs73683007	Imputed	0.801			21904917	
	rs75439933	Imputed	0.800			21905020	
	rs73683008	Imputed	0.800			21905059	
DNAH11_Exon_81						21905479	21905591
	rs56333627	Imputed	2.66E-11			21905557	
DNAH11_Intron_81						21905592	21906122
	rs55714084	Imputed	5.01E-14			21905614	
	rs72658829	Imputed	4.49E-02			21905674	
	rs35469450	Genotyped	3.88E-08			21905907	
	rs34245961	Imputed	8.15E-07			21906010	
DNAH11_Exon_82						21906123	21906263
DNAH11_Intron_82						21906264	21907149
	rs62445899	Imputed	4.70E-02			21906647	
	rs62445900	Imputed	1.34E-02			21906990	
	rs56268505	Imputed	5.83E-07			21907005	
CDCA7L_Exon_11						21907042	21908495

DNAH11_Exon_83							21907150	21907982
				LUN-1	TransFac	2.18	21907306	21907323
	rs77448980	Imputed	0.760				21907348	
	rs7971	Genotyped	3.29E-13				21907485	
	rs62445901	Imputed	1.44E-02				21907586	
	rs12700325	Imputed	5.49E-07				21907964	
	rs1128226	Genotyped	7.94E-12				21908194	
CDCA7L_Intron_10							21908496	21909120
CDCA7L_Exon_10							21909121	21909257
				POU2F1	TransFac	1.98	21909133	21909156
				POU3F2	TransFac	2.3	21909140	21909150
				E47	TransFac	2.22	21909220	21909236
				ATF6	TransFac	2.02	21909231	21909239
CDCA7L_Intron_9							21909258	21910252
	rs34204775	Imputed	9.02E-03				21910050	
	rs35898649	Imputed	9.10E-03				21910247	
CDCA7L_Exon_9							21910253	21910402
				c-Myc	TransFac	3.01	21910384	21910404
				Arnt	TransFac	3.2	21910386	21910402
				Max1	TransFac	2.67	21910387	21910401
CDCA7L_Intron_8							21910402	21911648
	rs4534048	Imputed	8.20E-07				21910710	
	rs6976370	Imputed	5.53E-07				21910764	
	rs56249828	Imputed	1.10E-10				21911132	
				POU2F1	TransFac	3.1	21911221	21911235
	rs4722069	Imputed	0.515				21911302	
	rs6953368	Imputed	7.98E-06				21911611	
CDCA7L_Exon_8							21911649	21911774
				CUTL1	TransFac	2.48	21911671	21911686
CDCA7L_Intron_7							21911775	21912431
	rs12540021	Imputed	9.07E-07				21912088	
	rs6461617	Genotyped	8.09E-05				21912212	
	rs4445125	Genotyped	1.30E-05				21912365	
CDCA7L_Exon_7							21912432	21912599
CDCA7L_Intron_6							21912600	21912710
CDCA7L_Exon_6							21912711	21912782
CDCA7L_Intron_5							21912783	21914272
				TBP	TransFac	2.66	21912997	21913012
	rs28580520	Imputed	7.09E-04				21913297	
	rs10238945	Genotyped	0.249				21913663	
CDCA7L_Exon_5							21914273	21914650
CDCA7L_Intron_4							21914651	21917759
	rs6973505	Imputed	0.933				21914879	
	rs75703386	Imputed	0.584				21914997	
	rs12234262	Genotyped	1.50E-10				21915828	
	rs7811959	Imputed	0.178				21916383	
	rs7811690	Imputed	5.01E-04				21916390	
	rs7811563	Genotyped	0.830				21916411	
	rs6980109	Imputed	7.43E-03				21916663	
	rs34145161	Imputed	0.196				21916797	
				Bach1	TransFac	2.58	21916941	21916956
				AP-1	TransFac	2.06	21916942	21916955
	rs4346898	Genotyped	6.38E-02				21917558	
	rs11978167	Genotyped	2.76E-02				21917630	
CDCA7L_Exon_4							21917760	21917897
CDCA7L_Intron_3							21917861	21922896
	rs4540316	Imputed	0.191				21918412	
				SRF	TransFac	2.11	21919208	21919223
	rs13242846	Imputed	1.85E-02				21919239	
				CUTL1	TransFac	2.11	21919402	21919414
				NCX	TransFac	3.53	21919404	21919414
	rs6958427	Genotyped	0.647				21919479	
	rs59258063	Imputed	0.124				21921098	
	rs6978094	Imputed	7.88E-02				21921390	

	rs6978729	Imputed	0.441		21921683	
	rs13311158	Imputed	4.88E-03		21921801	
	rs12700326	Imputed	2.74E-02		21922263	
	rs12700327	Genotyped	9.50E-04		21922310	
CDCA7L_Exon_3					21922897	21923037
	rs1128250	Genotyped	7.15E-02		21922930	
CDCA7L_Intron_2					21923038	21946404
	rs55658106	Imputed	9.07E-02		21923203	
	rs4398800	Imputed	1.82E-03		21923596	
	rs10447610	Imputed	9.49E-04		21923903	
	rs34433935	Imputed	1.57E-03		21923962	
	rs4442026	Imputed	6.55E-04		21924828	
	rs57033293	Imputed	8.53E-02		21925502	
	rs62445924	Imputed	8.62E-02		21925903	
	rs57082026	Imputed	9.14E-02		21928172	
	rs4566940	Imputed	1.13E-04		21929219	
	rs13234391	Imputed	1.90E-03		21929430	
	rs62445926	Imputed	9.45E-02		21929487	
	rs1406705	Genotyped	0.412		21930887	
	rs7798564	Imputed	0.140		21931598	
	rs12700329	Imputed	4.26E-02		21932121	
	rs12700330	Imputed	4.27E-02		21932214	
	rs12673256	Imputed	0.102		21932798	
	rs10950883	Imputed	0.102		21932942	
	rs12539984	Imputed	0.103		21933050	
	rs12532102	Imputed	0.329		21933233	
	rs1581694	Imputed	2.37E-02		21933504	
	rs71526380	Imputed	2.33E-03		21934366	
	rs7777755	Imputed	0.365		21934658	
	rs9655217	Imputed	2.93E-02		21935650	
	rs7783537	Imputed	0.283		21935850	
	rs7786788	Imputed	2.58E-02		21935919	
	rs7787345	Imputed	2.97E-02		21936030	
	rs62445928	Imputed	0.110		21936185	
	rs62445929	Imputed	0.372		21936193	
	rs7787698	Imputed	4.98E-02		21936242	
	rs6959493	Imputed	0.113		21937306	
	rs10279310	Imputed	0.288		21937518	
	rs6959806	Imputed	0.113		21937545	
	rs12154480	Imputed	0.268		21937674	
	rs7793611	Imputed	0.288		21937761	
	rs60570662	Imputed	0.352		21937762	
	rs113334626	Imputed	0.896		21939082	
	rs12055905	Imputed	1.48E-02		21939408	
	rs12055908	Imputed	0.119		21939519	
	rs60181879	Imputed	8.10E-03		21939731	
	rs7807924	Imputed	0.135		21940257	
	rs7791077	Imputed	3.48E-02		21940337	
	rs4473920	Imputed	0.425		21941135	
	rs1919906	Imputed	0.131		21942082	
	rs9692388	Imputed	0.311		21942526	
	rs9692398	Imputed	4.20E-02		21942766	
	rs6461620	Imputed	0.397		21942949	
	rs79106838	Imputed	0.101		21943364	
	rs6963571	Imputed	0.140		21943412	
	rs4487646	Imputed	0.407		21943720	
	rs62445935	Imputed	0.181		21944833	
	rs9638794	Imputed	1.25E-02		21945268	
	rs7807075	Genotyped	4.59E-03		21945669	
	rs7790135	Imputed	9.54E-03		21945710	
CDCA7L_Exon_2					21946405	21946458
CDCA7L_Intron_1					21946459	21951923
	rs6651057	Imputed	3.61E-03		21947172	
				FAC1	TransFac	1.97
					21947293	21947307

rs6946675	Genotyped	2.67E-02					21947298	
rs6461623	Imputed	1.80E-02					21947409	
rs4394298	Imputed	6.56E-02					21947616	
			MZF-1	TransFac	2		21948172	21948180
rs12700337	Genotyped	8.85E-02					21948463	
rs13226917	Genotyped	7.72E-02					21948825	
rs13242671	Imputed	6.66E-02					21948932	
rs10262937	Imputed	9.31E-03					21948973	
rs12669549	Imputed	1.35E-02					21949784	
rs11766705	Imputed	5.26E-03					21950303	
			mod102942	PreMod	13		21950876	21951007
rs3823667	Imputed	1.72E-02					21951863	
CDCA7L_Exon_1							21951924	21952067
			mod102943	PreMod	11		21952249	21952537
			E2F	TransFac	2.54		21952310	21952318
			Sp1	TransFac	2.05		21952494	21952504
rs12536673	Imputed	5.64E-03					21953842	
rs1534770	Imputed	2.48E-02					21954329	
rs1534771	Genotyped	7.78E-02					21954409	

3p22.1 (rs1052501)

Gene region	rsID	SNP type	P-value	TF type	Source	Score	Chrom start	Chrom end
	rs4973978	Genotyped	0.19745				41642549	
	rs9824758	Imputed	0.27027				41645142	
	rs9824775	Imputed	0.27867				41645175	
	rs9880350	Imputed	0.72736				41645198	
	rs76990313	Imputed	0.5106				41646583	
	rs58191495	Imputed	0.7943				41648038	
	rs6783612	Imputed	0.71033				41649598	
	rs974595	Genotyped	0.024226				41651168	
	rs974594	Genotyped	0.62424				41651366	
	rs3856732	Imputed	0.64583				41651510	
	rs71331196	Imputed	0.50325				41651554	
	rs9873313	Imputed	0.23124				41654051	
	rs9818089	Imputed	0.23114				41654156	
	rs9877678	Imputed	0.88804				41654449	
	rs1436851	Imputed	0.043684				41655754	
	rs9828875	Imputed	0.85076				41656237	
	rs1961364	Imputed	0.22683				41657282	
	rs9861383	Imputed	0.024457				41658556	
	rs28879080	Imputed	0.029562				41659397	
	rs7622642	Imputed	0.6308				41659802	
	rs13061891	Imputed	0.92504				41661524	
	rs4973980	Imputed	0.026752				41662682	
	rs9860613	Imputed	0.0025092				41664047	
	rs6807898	Imputed	0.20367				41664239	
	rs9823858	Imputed	0.80957				41664371	
	rs4284955	Imputed	0.18395				41664542	
	rs17213434	Imputed	0.51794				41665081	
	rs9832843	Imputed	0.035582				41665591	
	rs34568869	Imputed	0.52313				41667921	
	rs4973981	Imputed	0.95199				41668051	
	rs9284876	Imputed	0.60972				41668547	
	rs9311286	Imputed	0.02344				41668696	
	rs34776729	Imputed	0.52479				41668787	
	rs17059957	Imputed	0.52563				41668927	
	rs6766940	Imputed	0.61178				41669181	
	rs114688025	Imputed	0.034367				41675248	
ULK4_Exon_30							41680102	41680194

ULK4_Intron_29							41680195	41698002
	rs994439	Genotyped	0.0045825				41691321	
ULK4_Exon_29							41698003	41698147
				TGIF	TransFac	2.37	41698039	41698050
ULK4_Intron_28							41698148	41698247
ULK4_Exon_28							41698248	41698299
ULK4_Intron_27							41698300	41721552
				mod073650	PreMod	10	41716375	41716497
				TBP	TransFac	2.14	41716443	41716451
ULK4_Exon_27							41721553	41721647
				RORalpha1	TransFac	2.01	41721613	41721626
ULK4_Intron_26							41721648	41721749
ULK4_Exon_26							41721750	41721801
				Cdc5	TransFac	1.99	41721787	41721799
ULK4_Intron_25							41721802	41731732
	rs6599167	Imputed	5.27E-08				41725264	
	rs6599168	Imputed	5.26E-08				41725327	
	rs6771928	Imputed	5.31E-08				41725977	
	rs6763508	Imputed	5.32E-08				41725993	
	rs6809328	Imputed	5.29E-08				41726009	
	rs6794074	Imputed	5.27E-08				41726151	
	rs6794211	Imputed	5.32E-08				41726328	
	rs6781529	Imputed	5.33E-08				41726337	
	rs73069356	Imputed	1.20E-07				41727849	
	rs73069357	Imputed	1.18E-07				41728323	
	rs9848754	Imputed	5.47E-08				41728651	
	rs4616614	Imputed	5.46E-08				41728652	
	rs4408846	Imputed	5.46E-08				41728683	
	rs1025646	Imputed	5.54E-08				41729426	
	rs6807015	Imputed	5.54E-08				41729518	
	rs9847006	Imputed	3.15E-08				41730363	
				HSF1	TransFac	2.41	41730821	41730831
	rs9869282	Imputed	5.66E-08				41731068	
				RORalpha1	TransFac	2.79	41731597	41731610
ULK4_Exon_25							41731733	41731789
				ISGF-3	TransFac	2.38	41731747	41731762
				Meis-1	TransFac	1.98	41731761	41731773
ULK4_Intron_24							41731790	41731942
ULK4_Exon_24							41731943	41732064
	rs61744388	Imputed	5.72E-08				41731969	
	rs61744385	Imputed	5.73E-08				41731990	
ULK4_Intron_23							41732065	41734223
	rs9866759	Imputed	5.78E-08				41733422	
	rs17060938	Imputed	5.85E-08				41734195	
				NCX	TransFac	2.28	41734215	41734225
ULK4_Exon_23							41734224	41734357
				ZIC2	TransFac	2.02	41734315	41734324
ULK4_Intron_22							41734358	41770856
				Max1	TransFac	2.12	41734429	41734443
	rs9852303	Imputed	4.79E-08				41734529	
	rs11923562	Imputed	5.88E-08				41735335	
	rs3890604	Imputed	4.91E-08				41735629	
	rs1125203	Genotyped	1.14E-07				41735899	
	rs2371623	Imputed	5.92E-08				41736087	
	rs9825741	Imputed	5.01E-08				41736832	
	rs9863915	Imputed	5.92E-08				41737006	
	rs9826058	Imputed	5.89E-08				41737066	
	rs9864217	Imputed	5.92E-08				41737210	
	rs9864331	Imputed	5.92E-08				41737221	
	rs9830469	Imputed	5.93E-08				41737539	
	rs5848608	Imputed	1.35E-05				41737749	
	rs55835726	Imputed	5.95E-08				41738053	
	rs9869440	Imputed	5.96E-08				41738159	
	rs17060961	Imputed	6.04E-08				41738715	

rs9874975	Imputed	5.41E-08			41739304		
rs7651190	Imputed	6.23E-08			41740959		
rs9882329	Imputed	6.24E-08			41742158		
rs6801343	Imputed	6.24E-08			41742238		
rs73069380	Imputed	0.00033538			41746181		
rs6599170	Imputed	6.28E-08			41747722		
rs28755797	Imputed	6.44E-08			41749450		
rs9854833	Imputed	5.92E-08			41750581		
rs9875083	Imputed	6.84E-08			41750790		
rs6789260	Imputed	7.77E-08			41751354		
rs6781326	Imputed	7.76E-08			41752032		
rs111335312	Imputed	0.018688			41752747		
			Nkx3-1	TransFac	2.11	41756527	41756539
			POU2F1	TransFac	2.83	41756787	41756801
			ATF-2	TransFac	2.28	41757091	41757103
			ATF-2	TransFac	2.24	41757093	41757101
rs73069390	Imputed	1.09E-07			41760517		
rs6599175	Genotyped	7.87E-08			41761013		
rs9847975	Imputed	8.08E-08			41761908		
rs73069392	Imputed	8.07E-08			41762013		
rs73069394	Imputed	8.00E-08			41762237		
rs73069396	Imputed	8.00E-08			41762240		
rs6599176	Imputed	7.73E-08			41763496		
rs12633534	Imputed	0.10875			41764154		
rs17061431	Imputed	6.89E-08			41767659		
rs9868066	Imputed	6.62E-08			41769165		
rs7650227	Imputed	6.49E-08			41769941		
rs9867627	Imputed	7.73E-08			41770845		
ULK4_Exon_22					41770857	41770984	
ULK4_Intron_21					41770985	41806156	
rs73071304	Imputed	8.22E-08			41772508		
rs57479675	Imputed	5.98E-08			41773042		
rs73071307	Imputed	8.00E-08			41773703		
rs7616123	Imputed	7.96E-08			41773945		
rs76471037	Imputed	5.80E-08			41774418		
rs71315508	Imputed	0.030784			41777823		
rs79548696	Imputed	5.25E-08			41778389		
rs9311288	Imputed	5.10E-08			41779585		
rs55748698	Imputed	6.92E-08			41780237		
rs9854838	Imputed	4.97E-08			41780674		
rs73071315	Imputed	6.83E-08			41780891		
rs17280777	Imputed	6.79E-08			41781171		
rs111304140	Imputed	6.75E-08			41781496		
rs113874002	Imputed	6.71E-08			41781718		
rs9865127	Imputed	4.77E-08			41782452		
rs17214945	Imputed	2.83E-08			41783664		
rs59583650	Imputed	6.40E-08			41784067		
rs57638657	Imputed	7.04E-08			41784242		
rs111708447	Imputed	6.32E-08			41784587		
rs73071325	Imputed	6.28E-08			41784993		
rs73071328	Imputed	6.27E-08			41785059		
rs73828254	Imputed	6.26E-08			41785184		
rs13093299	Genotyped	0.029097			41785224		
rs17062109	Imputed	2.97E-08			41785368		
rs17214987	Imputed	6.22E-08			41785485		
rs73071329	Imputed	4.45E-08			41785543		
rs73071330	Imputed	6.22E-08			41785557		
rs17280952	Imputed	6.19E-08			41785838		
rs17280980	Imputed	6.18E-08			41785953		
rs9832037	Imputed	4.35E-08			41787036		
rs55744136	Imputed	7.00E-07			41787297		
rs59432762	Imputed	7.00E-07			41787298		
rs17215183	Imputed	2.87E-08			41787338		
rs60764195	Imputed	6.06E-08			41787526		

rs9837273	Imputed	4.30E-08					41788108	
rs9817510	Imputed	4.30E-08					41788112	
rs7631914	Imputed	4.27E-08					41788561	
rs111325524	Imputed	5.89E-08					41789568	
rs56205414	Imputed	4.20E-08					41790206	
rs10452020	Imputed	4.15E-08					41790955	
rs10452022	Imputed	4.61E-07					41791046	
rs113722150	Imputed	6.33E-08					41791545	
rs111877184	Imputed	4.12E-08					41791677	
rs17281182	Imputed	5.68E-08					41792267	
rs7631057	Imputed	4.05E-08					41792955	
rs9857175	Imputed	3.88E-08					41797058	
rs9875107	Imputed	3.86E-08					41797317	
rs73071337	Imputed	5.91E-08					41797522	
rs9842261	Imputed	3.85E-08					41797712	
rs114034165	Imputed	5.30E-08					41798301	
rs112071272	Imputed	5.86E-08					41798367	
rs73071338	Imputed	5.25E-08					41799332	
rs6803560	Imputed	3.77E-08					41799484	
rs6803652	Imputed	3.18E-08					41799560	
rs76966288	Imputed	5.03E-08					41800059	
rs73071341	Imputed	4.71E-08					41801215	
rs73071343	Imputed	4.58E-08					41801881	
rs10212536	Imputed	3.57E-08					41802030	
rs73071344	Imputed	4.55E-08					41802066	
rs9311289	Genotyped	0.28889					41802067	
rs58442057	Imputed	4.58E-08					41802213	
rs9840037	Imputed	3.39E-08					41802526	
rs73071352	Imputed	4.82E-08					41803304	
rs73071354	Imputed	5.42E-08					41804190	
rs4973892	Genotyped	0.0040738					41804401	
rs73071356	Imputed	6.12E-08					41804490	
rs17215498	Imputed	6.72E-08					41804683	
rs9852020	Imputed	4.78E-08					41805210	
rs73071358	Imputed	7.15E-08					41805491	
ULK4_Exon_21							41806157	41806339
rs17215589	Genotyped	1.28E-07					41806207	
			POU2F1	TransFac	2.3		41806228	41806247
ULK4_Intron_20							41806340	41816627
rs10510729	Imputed	7.36E-08					41807002	
rs17281609	Imputed	7.36E-08					41808436	
rs9834098	Imputed	5.01E-08					41808497	
rs73828280	Imputed	7.35E-08					41808911	
rs73073323	Imputed	7.35E-08					41809055	
rs73073326	Imputed	7.35E-08					41809199	
rs12185908	Imputed	8.29E-08					41809496	
rs12186076	Imputed	5.01E-08					41809643	
rs73828283	Imputed	7.36E-08					41810103	
rs112265441	Imputed	7.36E-08					41811072	
rs4973893	Imputed	0.41597					41811474	
rs12185934	Imputed	7.35E-08					41811562	
rs12186050	Imputed	7.35E-08					41811883	
rs12186051	Imputed	7.35E-08					41811923	
rs12186109	Imputed	7.35E-08					41811924	
rs73073337	Imputed	7.35E-08					41812501	
rs766286	Imputed	7.34E-08					41813333	
rs11129932	Imputed	7.34E-08					41813771	
rs2371627	Imputed	5.05E-08					41814223	
rs4621303	Imputed	5.05E-08					41814374	
rs73073342	Imputed	7.34E-08					41814459	
rs58360908	Imputed	8.29E-08					41814841	
rs57809229	Imputed	7.34E-08					41815166	
rs4973985	Imputed	0.41607					41815526	
rs6776724	Imputed	5.06E-08					41816274	

ULK4_Exon_20	rs4973986	Genotyped	0.58966				41816628	41816789
				c-Myc	TransFac	2.12	41816720	
							41816762	41816774
ULK4_Intron_19							41816790	41835918
	rs17215883	Imputed	7.34E-08				41816877	
	rs6599178	Imputed	5.06E-08				41817133	
	rs73073352	Imputed	7.33E-08				41817188	
	rs73073355	Imputed	7.33E-08				41817336	
	rs7626217	Imputed	5.07E-08				41817419	
	rs73073358	Imputed	8.28E-08				41817531	
	rs73073361	Imputed	7.34E-08				41817930	
	rs73073364	Imputed	7.34E-08				41818062	
	rs73073368	Imputed	5.08E-08				41818395	
	rs73073371	Imputed	7.34E-08				41818447	
	rs57525756	Imputed	7.34E-08				41818595	
	rs56194645	Imputed	7.34E-08				41818597	
	rs55788971	Imputed	7.34E-08				41818969	
	rs60927633	Imputed	7.33E-08				41819014	
	rs111520733	Imputed	3.78E-06				41819616	
	rs6793567	Imputed	7.32E-08				41820551	
	rs28801070	Imputed	7.26E-07				41820558	
	rs78863838	Imputed	0.00017405				41820601	
	rs112242054	Imputed	0.0018365				41820647	
	rs56183581	Imputed	7.32E-08				41823496	
	rs55682201	Imputed	7.32E-08				41823501	
	rs7647561	Imputed	7.32E-08				41823631	
	rs10510730	Imputed	2.99E-06				41824017	
	rs55916959	Imputed	7.31E-08				41824134	
	rs7648357	Imputed	5.14E-08				41824674	
	rs73077358	Imputed	7.29E-08				41825009	
	rs73077359	Imputed	7.29E-08				41825020	
	rs73077360	Imputed	7.28E-08				41825058	
	rs73077361	Imputed	7.28E-08				41825150	
	rs113683976	Imputed	7.16E-07				41825689	
	rs9869446	Imputed	0.34364				41826214	
	rs17215988	Imputed	7.21E-08				41826324	
	rs73077365	Imputed	7.11E-08				41826563	
	rs6796210	Imputed	7.70E-08				41826722	
	rs73077367	Imputed	6.62E-08				41826963	
	rs60943892	Imputed	7.04E-08				41827311	
	rs73077373	Imputed	7.03E-08				41827891	
	rs73077375	Imputed	7.80E-08				41828062	
	rs7646144	Imputed	6.79E-08				41828129	
	rs7632387	Imputed	6.80E-08				41828165	
	rs10510731	Imputed	7.02E-08				41828314	
	rs61283393	Imputed	7.03E-08				41829139	
	rs57209010	Imputed	7.02E-08				41829747	
	rs6599179	Imputed	6.90E-08				41830288	
	rs78916339	Imputed	0.50053				41831065	
	rs73077386	Imputed	7.02E-08				41832656	
	rs7648578	Imputed	7.82E-08				41833735	
	rs900569	Genotyped	0.32953				41834977	
	rs73077390	Imputed	7.00E-08				41835259	
	rs9856088	Imputed	7.10E-08				41835486	
	rs9855965	Imputed	7.10E-08				41835512	
	rs9818169	Imputed	7.09E-08				41835603	
				FOXD1	TransFac	2.71	41835668	41835684
				mod073651	PreMod	12	41835836	41835968
				STAT3	TransFac	2.39	41835915	41835936
				NCX	TransFac	2.24	41835917	41835927
ULK4_Exon_19							41835919	41836002
ULK4_Intron_18							41836003	41852359
	rs17063584	Imputed	7.09E-08				41836467	
	rs17063599	Imputed	7.10E-08				41836680	

rs12639255	Imputed	7.10E-08	41836742
rs6783001	Imputed	7.14E-08	41837236
rs6795797	Imputed	7.14E-08	41837254
rs73079307	Imputed	6.84E-08	41837277
rs1564716	Imputed	7.14E-08	41837617
rs2128834	Imputed	6.23E-08	41837649
rs2128835	Genotyped	5.22E-08	41837877
rs17063649	Imputed	7.14E-08	41838410
rs28733681	Imputed	7.14E-08	41838448
rs17063653	Imputed	7.14E-08	41838821
rs73079316	Imputed	7.14E-08	41838863
rs73079321	Imputed	7.14E-08	41838914
rs74482513	Imputed	7.14E-08	41839101
rs112059754	Imputed	7.14E-08	41839129
rs111465678	Imputed	6.81E-08	41839409
rs73079324	Imputed	7.15E-08	41839568
rs73079325	Imputed	7.15E-08	41839569
rs73830511	Imputed	7.15E-08	41839647
rs73079327	Imputed	7.15E-08	41839701
rs6790732	Imputed	7.15E-08	41839876
rs6768128	Imputed	7.15E-08	41840084
rs6793520	Imputed	7.15E-08	41840293
rs6768438	Imputed	7.16E-08	41840359
rs6805880	Imputed	7.15E-08	41840401
rs6768542	Imputed	7.15E-08	41840478
rs73079334	Imputed	6.80E-08	41840480
rs6768563	Imputed	7.15E-08	41840545
rs116759255	Imputed	7.15E-08	41840655
rs7649989	Imputed	7.15E-08	41840847
rs7652541	Imputed	7.58E-08	41841097
rs59553563	Imputed	7.15E-08	41841603
rs59248949	Imputed	7.15E-08	41841661
rs59849553	Imputed	7.15E-08	41841790
rs56776628	Imputed	7.15E-08	41841860
rs12494132	Imputed	0.0071496	41842033
rs12636988	Imputed	7.15E-08	41842450
rs62258621	Imputed	0.58183	41842478
rs114173684	Imputed	9.76E-08	41842603
rs114603078	Imputed	9.76E-08	41842604
rs13079681	Imputed	6.67E-07	41842625
rs35475272	Imputed	6.67E-07	41842647
rs35238909	Imputed	5.29E-06	41842740
rs7432737	Imputed	5.29E-06	41842863
rs111821658	Imputed	7.17E-08	41845470
rs9790316	Imputed	6.32E-07	41845747
rs111634789	Imputed	7.18E-08	41846360
rs28642910	Imputed	7.17E-08	41846395
rs28581706	Imputed	7.18E-08	41846401
rs113416896	Imputed	0.00018211	41846447
rs28652776	Imputed	5.27E-06	41846524
rs9831404	Imputed	7.17E-08	41846829
rs77717550	Imputed	7.17E-08	41847508
rs73079340	Imputed	0.58312	41847527
rs9816560	Imputed	7.18E-08	41847531
rs9816772	Imputed	7.18E-08	41847881
rs113213296	Imputed	9.71E-08	41848101
rs111967505	Imputed	6.71E-08	41848161
rs6803198	Imputed	7.18E-08	41848782
rs7616844	Imputed	7.18E-08	41849347
rs6773101	Imputed	0.0044756	41849793
rs9810804	Imputed	7.18E-08	41849934
rs9848793	Imputed	6.68E-08	41850003
rs9848992	Imputed	7.19E-08	41850301
rs12634670	Imputed	6.67E-08	41850303

	rs9849393	Imputed	7.18E-08	41850373	
	rs9852991	Imputed	7.18E-08	41850459	
	rs73830516	Imputed	6.67E-08	41851060	
	rs73079350	Imputed	7.53E-08	41851314	
	rs967619	Imputed	7.53E-08	41851714	
ULK4_Exon_18				41852360	41852467
	rs3774372	Genotyped	2.43E-07	41852418	
ULK4_Intron_17				41852468	41900369
	rs56104136	Imputed	6.66E-08	41852857	
	rs9869207	Imputed	7.18E-08	41853665	
	rs79817383	Imputed	6.65E-08	41855770	
	rs7624372	Imputed	7.17E-08	41856111	
	rs7622259	Imputed	7.17E-08	41856355	
	rs9830064	Imputed	7.17E-08	41856805	
	rs9810731	Imputed	7.17E-08	41857105	
	rs9810865	Imputed	7.17E-08	41857151	
	rs114960066	Imputed	7.17E-08	41857327	
	rs113341165	Imputed	6.65E-08	41857720	
	rs114714860	Imputed	2.86E-06	41857909	
	rs113449797	Imputed	6.65E-08	41858023	
	rs113471865	Imputed	7.16E-08	41858105	
	rs11714981	Imputed	0.21159	41858406	
	rs55941479	Imputed	7.17E-08	41858505	
	rs58940436	Imputed	7.16E-08	41858686	
	rs60248638	Imputed	6.65E-08	41858696	
	rs56121764	Imputed	7.16E-08	41858979	
	rs9873207	Imputed	7.78E-08	41859754	
	rs112736802	Imputed	6.64E-08	41859871	
	rs7642083	Imputed	7.16E-08	41859903	
	rs56081180	Imputed	7.16E-08	41860243	
	rs56036624	Imputed	7.16E-08	41860343	
	rs56158380	Imputed	7.16E-08	41860592	
	rs9823027	Imputed	7.16E-08	41860659	
	rs9840532	Imputed	7.15E-08	41860701	
	rs11928580	Imputed	7.15E-08	41860726	
	rs11917248	Imputed	7.15E-08	41860727	
	rs17282671	Imputed	6.62E-08	41862459	
	rs6797165	Imputed	6.91E-08	41862781	
	rs73079360	Imputed	6.22E-08	41863376	
	rs17216919	Imputed	6.12E-08	41863942	
	rs9820192	Imputed	6.40E-08	41864285	
	rs9824731	Imputed	6.40E-08	41864702	
	rs28702390	Imputed	6.40E-08	41864924	
	rs6791806	Imputed	6.59E-08	41864999	
	rs73081321	Imputed	6.12E-08	41865235	
	rs17064124	Imputed	6.40E-08	41865807	
	rs9850310	Imputed	6.40E-08	41866102	
	rs9854954	Imputed	6.40E-08	41866664	
	rs12107693	Imputed	6.40E-08	41867460	
	rs12107296	Imputed	6.39E-08	41867507	
	rs58212289	Imputed	6.16E-07	41867647	
	rs56134026	Imputed	6.16E-07	41867648	
	rs57653201	Imputed	6.39E-08	41867697	
	rs9883369	Imputed	6.39E-08	41868775	
	rs6802340	Imputed	6.39E-08	41869038	
	rs9846634	Imputed	6.39E-08	41869053	
	rs1016669	Imputed	6.57E-08	41869444	
	rs9823254	Imputed	6.39E-08	41869772	
	rs73081335	Imputed	6.11E-08	41870181	
	rs9865780	Imputed	6.38E-08	41870806	
	rs9828398	Imputed	6.38E-08	41870897	
	rs9866092	Imputed	6.38E-08	41870971	
	rs57162396	Imputed	6.11E-08	41871035	
	rs6763829	Imputed	6.38E-08	41872050	

rs1994157	Genotyped	1.04E-07	41872486
rs7426868	Imputed	6.95E-08	41873008
rs2888133	Imputed	6.37E-08	41873058
rs35167597	Imputed	6.10E-08	41873112
rs1716699	Imputed	0.31734	41873276
rs73830532	Imputed	6.09E-08	41873818
rs73081341	Imputed	6.95E-08	41875339
rs11719319	Imputed	0.59345	41875528
rs2625667	Imputed	6.36E-08	41875955
rs1717028	Imputed	6.10E-08	41877968
rs1716674	Imputed	6.10E-08	41877976
rs1716676	Imputed	6.07E-08	41878212
rs9832548	Imputed	6.04E-08	41878495
rs11718429	Imputed	0.59381	41878496
rs73081347	Imputed	5.85E-08	41878586
rs1607908	Imputed	5.92E-08	41880200
rs1716679	Imputed	5.91E-08	41880343
rs1717031	Imputed	5.88E-08	41880795
rs2625668	Imputed	5.87E-08	41880934
rs1613759	Imputed	5.85E-08	41881187
rs1615543	Imputed	5.84E-08	41881408
rs73081353	Imputed	5.84E-08	41881452
rs1716668	Imputed	5.75E-08	41882854
rs78531852	Imputed	0.10316	41883128
rs116202370	Imputed	5.74E-08	41883277
rs59138513	Imputed	5.63E-08	41883615
rs60796012	Imputed	5.63E-08	41883672
rs1716669	Imputed	5.74E-08	41883685
rs9874513	Imputed	5.73E-08	41884512
rs1717033	Imputed	5.73E-08	41885220
rs1716670	Genotyped	0.92629	41885575
rs73081361	Imputed	6.47E-08	41887539
rs9815354	Imputed	5.73E-08	41887655
rs73081363	Imputed	0.00017255	41888482
rs73081364	Imputed	5.72E-08	41888620
rs1717018	Imputed	5.72E-08	41888621
rs1617271	Imputed	5.72E-08	41889004
rs1619558	Imputed	5.72E-08	41889217
rs6599185	Imputed	6.46E-08	41889734
rs17283243	Imputed	5.62E-08	41889796
rs2683696	Imputed	5.72E-08	41889902
rs2683695	Imputed	5.72E-08	41889932
rs13325965	Imputed	5.65E-08	41889946
rs114540218	Imputed	1.84E-05	41890377
rs2683694	Imputed	5.62E-08	41890378
rs1717017	Imputed	5.65E-08	41890620
rs73081370	Imputed	5.62E-08	41891262
rs1717015	Imputed	5.72E-08	41892208
rs1717014	Imputed	5.72E-08	41892399
rs73081372	Imputed	5.62E-08	41892997
rs1716657	Imputed	5.71E-08	41893460
rs1716655	Imputed	5.71E-08	41893710
rs9839213	Imputed	5.71E-08	41893996
rs10865914	Imputed	5.71E-08	41894503
rs73081378	Imputed	6.46E-08	41895193
rs6794477	Imputed	5.71E-08	41895405
rs34327029	Imputed	0.30348	41895427
rs73081383	Imputed	6.46E-08	41895618
rs73081385	Imputed	8.37E-08	41896577
rs1716641	Imputed	4.35E-08	41896685
rs79211428	Imputed	5.61E-08	41896814
rs61661916	Imputed	5.61E-08	41896919
rs1716690	Imputed	5.71E-08	41897106
rs73081392	Imputed	5.61E-08	41898013

	rs1716683	Imputed	5.71E-08				41898078	
	rs17217536	Imputed	5.61E-08				41898304	
	rs17283481	Imputed	5.61E-08				41899019	
	rs1716996	Imputed	5.71E-08				41899298	
	rs1716997	Imputed	5.71E-08				41899337	
	rs1716685	Imputed	5.63E-08				41900305	
ULK4_Exon_17							41900370	41900448
	rs1052501	Genotyped	5.08E-08				41900402	
ULK4_Intron_16							41900449	41912013
				FOXL1	TransFac	2.12	41900933	41900949
	rs17217746	Imputed	5.62E-08				41901025	
	rs17283677	Imputed	5.62E-08				41901152	
	rs1716688	Imputed	5.71E-08				41901550	
	rs73083326	Imputed	5.63E-08				41902154	
	rs73083329	Imputed	5.63E-08				41902155	
	rs4973991	Imputed	5.72E-08				41902277	
	rs1629460	Imputed	5.72E-08				41902453	
	rs1629462	Imputed	5.72E-08				41902456	
	rs73083333	Imputed	6.47E-08				41902509	
	rs9838965	Imputed	5.72E-08				41902942	
	rs9839399	Imputed	5.64E-08				41903048	
	rs9839491	Imputed	5.72E-08				41903305	
	rs56167033	Imputed	6.47E-08				41903321	
	rs112580981	Imputed	0.1897				41904279	
	rs59873855	Imputed	5.64E-08				41904542	
	rs1716660	Imputed	5.73E-08				41904964	
	rs1716999	Imputed	5.73E-08				41905045	
	rs1717000	Imputed	5.64E-08				41905223	
	rs73087366	Imputed	0.46116				41905368	
	rs73087368	Imputed	5.64E-08				41905383	
	rs4973995	Imputed	5.73E-08				41906477	
	rs76313799	Imputed	8.41E-08				41906755	
	rs76276404	Imputed	8.41E-08				41906774	
	rs113941228	Imputed	5.65E-08				41907080	
	rs62258655	Imputed	5.73E-08				41907334	
	rs113059632	Imputed	5.65E-08				41907862	
	rs11717540	Imputed	5.74E-08				41907942	
	rs113772069	Imputed	5.66E-08				41908393	
	rs1717001	Imputed	5.75E-08				41909953	
	rs61405159	Imputed	3.73E-05				41910134	
	rs1716696	Imputed	5.75E-08				41910815	
	rs1717002	Imputed	5.75E-08				41911672	
	rs73087378	Imputed	5.67E-08				41911831	
	rs1717003	Imputed	5.75E-08				41912004	
				E4BP4	TransFac	2.01	41912007	41912019
				POU2F1	TransFac	2.2	41912012	41912026
ULK4_Exon_16							41912014	41912060
ULK4_Intron_15							41912061	41913317
	rs74371586	Imputed	5.68E-08				41912894	
	rs77572508	Imputed	6.53E-08				41913048	
ULK4_Exon_15							41913318	41913499
				FAC1	TransFac	2.24	41913359	41913373
ULK4_Intron_14							41913500	41914927
	rs73069203	Imputed	6.53E-08				41913771	
	rs73069208	Imputed	5.68E-08				41914202	
				MZF-1	TransFac	2.23	41914696	41914704
	rs73069209	Imputed	5.68E-08				41914785	
ULK4_Exon_14							41914928	41914988
				Lmo2	TransFac	2.03	41914982	41914991
ULK4_Intron_13							41914989	41917220
	rs1717006	Imputed	5.65E-08				41915452	
	rs73069213	Imputed	5.68E-08				41915594	
	rs17283929	Imputed	5.69E-08				41916902	
	rs1717007	Imputed	5.77E-08				41917203	

ULK4_Exon_13				SREBP-1a	TransFac	2.59	41917221	41917325
				Arnt	TransFac	2.09	41917237	41917248
							41917300	41917320
ULK4_Intron_12							41917326	41924340
	rs4615050	Imputed	5.77E-08				41917502	
	rs60664243	Imputed	5.69E-08				41917668	
	rs17218103	Imputed	4.09E-08				41918728	
	rs111671485	Imputed	2.82E-05				41919084	
	rs62258656	Imputed	0.18358				41919761	
	rs1613233	Imputed	5.79E-08				41920148	
	rs77778906	Imputed	5.72E-08				41920616	
	rs77732985	Imputed	5.72E-08				41920876	
	rs115965381	Imputed	6.59E-08				41920945	
	rs1717009	Imputed	5.80E-08				41921312	
	rs59476821	Imputed	5.73E-08				41921485	
	rs1717010	Imputed	5.80E-08				41921907	
	rs11705749	Imputed	5.81E-08				41922298	
	rs79741604	Imputed	6.60E-08				41922325	
	rs13063523	Imputed	0.0001917				41922441	
	rs1717012	Imputed	5.81E-08				41923259	
	rs1716664	Imputed	5.81E-08				41923382	
	rs9838537	Genotyped	0.63282				41923669	
	rs78342280	Imputed	5.75E-08				41923814	
	rs59146151	Imputed	5.75E-08				41924305	
ULK4_Exon_12							41924341	41924437
ULK4_Intron_11							41924438	41927812
	rs60659106	Imputed	5.75E-08				41924573	
	rs13076952	Imputed	5.82E-08				41925037	
	rs73069237	Imputed	5.76E-08				41925316	
	rs112245154	Imputed	6.63E-08				41925524	
	rs73069240	Imputed	5.77E-08				41925977	
	rs11308872	Imputed	0.36684				41926061	
	rs12330363	Imputed	5.83E-08				41926190	
	rs114414255	Imputed	0.023422				41926353	
	rs73069245	Imputed	5.77E-08				41926456	
	rs113528686	Imputed	5.77E-08				41926551	
	rs13087719	Imputed	5.83E-08				41926580	
	rs13088394	Imputed	5.83E-08				41926719	
	rs11711210	Imputed	6.22E-08				41926956	
	rs4547673	Imputed	7.24E-08				41927307	
	rs4299460	Imputed	7.68E-08				41927449	
	rs4264702	Imputed	7.73E-08				41927543	
	rs4577439	Imputed	7.73E-08				41927544	
				AREB6	TransFac	2.01	41927805	41927818
ULK4_Exon_11							41927813	41927882
				POU3F2	TransFac	2.29	41927824	41927838
	rs35263917	Imputed	7.86E-08				41927856	
ULK4_Intron_10							41927883	41928036
ULK4_Exon_10							41928037	41928155
ULK4_Intron_9							41928156	41929302
	rs75651509	Imputed	7.88E-08				41928568	
ULK4_Exon_9							41929303	41929395
ULK4_Intron_8							41929396	41932472
	rs9822598	Imputed	7.41E-08				41929591	
	rs9822288	Imputed	7.41E-08				41929592	
	rs34982278	Imputed	0.29137				41930468	
	rs1628874	Imputed	7.43E-08				41930718	
	rs74282515	Imputed	0.31745				41930820	
	rs1717034	Imputed	7.44E-08				41930917	
	rs1716698	Imputed	7.70E-08				41932470	
ULK4_Exon_8							41932473	41932548
				Pbx1a	TransFac	2.21	41932498	41932513
ULK4_Intron_7							41932549	41934952
	rs12108049	Imputed	9.11E-08				41933165	

	rs77047799	Imputed	1.00E-07				41933899	
	rs7617397	Imputed	9.07E-08				41934041	
	rs55899232	Imputed	1.07E-07				41934361	
	rs13321282	Imputed	9.51E-08				41934456	
ULK4_Exon_7							41934953	41935036
	rs1716975	Genotyped	1.49E-06				41935010	
				STAT3	TransFac	2.99	41935026	41935047
ULK4_Intron_6							41935037	41936212
	rs1716979	Genotyped	0.15674				41936172	
ULK4_Exon_6							41936213	41936314
ULK4_Intron_5							41936315	41948339
	rs1716981	Imputed	1.02E-07				41937666	
	rs1716661	Imputed	1.02E-07				41937822	
	rs55820810	Imputed	1.18E-07				41937836	
	rs1716982	Imputed	1.02E-07				41937967	
	rs1716983	Imputed	1.02E-07				41939132	
	rs76319026	Imputed	1.18E-07				41939546	
	rs9809833	Imputed	1.02E-07				41939652	
	rs1615243	Imputed	1.02E-07				41940238	
	rs1716984	Imputed	1.02E-07				41940536	
	rs1716642	Imputed	7.83E-08				41940869	
	rs1716643	Imputed	1.02E-07				41942196	
	rs73069277	Imputed	6.33E-06				41942525	
	rs1612124	Imputed	1.02E-07				41942897	
	rs1716644	Imputed	1.02E-07				41943032	
	rs1716985	Imputed	1.02E-07				41943898	
	rs35116501	Imputed	0.29887				41945043	
	rs1716645	Imputed	1.02E-07				41945484	
	rs1716987	Imputed	1.02E-07				41945520	
	rs7622665	Imputed	1.02E-07				41945747	
	rs1716988	Imputed	0.2982				41945929	
	rs7616780	Imputed	1.02E-07				41946563	
	rs1716989	Imputed	1.02E-07				41947190	
	rs1716990	Imputed	1.02E-07				41947213	
	rs1716648	Imputed	1.02E-07				41947853	
	rs73069285	Imputed	0.19043				41947970	
	rs114534088	Imputed	0.25809				41947985	
ULK4_Exon_5							41948340	41948502
ULK4_Intron_4							41948503	41952296
	rs73069292	Imputed	1.18E-07				41948967	
	rs1716993	Imputed	1.02E-07				41949560	
	rs1716651	Imputed	1.02E-07				41950103	
	rs1716652	Imputed	1.02E-07				41950539	
	rs1716653	Imputed	1.02E-07				41950602	
	rs17218264	Imputed	6.28E-08				41950851	
	rs939558	Imputed	1.02E-07				41951044	
	rs56207540	Imputed	1.18E-07				41951631	
	rs34121549	Imputed	1.02E-07				41951777	
	rs111419796	Imputed	1.18E-07				41951972	
	rs3934103	Imputed	7.83E-08				41952218	
ULK4_Exon_4							41952297	41952436
ULK4_Intron_3							41952437	41954593
	rs73071203	Imputed	1.18E-07				41952468	
	rs58069203	Imputed	0.083409				41952494	
	rs73071208	Imputed	1.18E-07				41953742	
ULK4_Exon_3							41954594	41954693
ULK4_Intron_2							41954694	41971117
	rs1717011	Imputed	1.02E-07				41955203	
	rs1717020	Imputed	9.79E-08				41956494	
	rs73071212	Imputed	1.18E-07				41956860	
	rs113611706	Imputed	1.18E-07				41958246	
	rs1716692	Imputed	1.02E-07				41958790	
	rs1717021	Imputed	1.01E-07				41958864	
	rs1717022	Imputed	0.19026				41959045	

rs13071018	Imputed	0.0043109					41959090	
rs1717023	Imputed	1.01E-07					41959217	
rs113300894	Imputed	4.80E-06					41959247	
rs116126274	Imputed	0.01705					41959725	
rs10707754	Imputed	1.01E-07					41959779	
rs1624519	Imputed	1.01E-07					41959804	
rs1717024	Imputed	9.68E-08					41959892	
rs11129935	Imputed	1.18E-07					41960207	
rs1716693	Imputed	1.00E-07					41960604	
rs9876960	Imputed	1.00E-07					41960816	
rs1716694	Imputed	1.00E-07					41961403	
rs17284313	Imputed	8.82E-08					41961791	
rs73071222	Imputed	1.20E-07					41961900	
rs17218441	Imputed	1.20E-07					41962048	
rs17218504	Imputed	1.46E-07					41962282	
rs10716860	Imputed	0.21308					41962528	
rs1717027	Imputed	1.00E-07					41962924	
rs1716695	Imputed	1.00E-07					41963699	
rs113803925	Imputed	1.21E-07					41964863	
rs7372217	Imputed	1.00E-07					41965126	
rs114548962	Imputed	1.21E-07					41965811	
rs116570063	Imputed	1.25E-06					41965813	
rs12330747	Imputed	1.00E-07					41965833	
rs73071236	Imputed	1.21E-07					41967046	
rs73071238	Imputed	1.21E-07					41967247	
rs6599192	Imputed	1.00E-07					41967412	
rs112787664	Imputed	1.21E-07					41967445	
rs73071239	Imputed	1.21E-07					41967614	
rs79440140	Imputed	5.07E-06					41967894	
rs73071242	Imputed	1.21E-07					41968015	
rs56983571	Imputed	1.21E-07					41969477	
rs11712394	Imputed	1.21E-07					41969783	
rs113923306	Imputed	1.91E-07					41969952	
rs6807562	Imputed	1.21E-07					41970659	
rs6805140	Imputed	1.21E-07					41970795	
rs114499224	Imputed	5.76E-05					41970855	
ULK4_Exon_2							41971118	41971303
rs2272007	Genotyped	7.19E-08					41971140	
			TBP	TransFac	2.09		41971187	41971202
ULK4_Intron_1							41971304	41978511
rs17284472	Imputed	8.87E-08					41971308	
rs73830583	Imputed	1.21E-07					41971952	
rs2272006	Imputed	1.00E-07					41972063	
rs60690674	Imputed	1.47E-07					41972815	
rs9842305	Imputed	1.00E-07					41973416	
rs112490357	Imputed	8.04E-06					41973944	
rs56728371	Imputed	1.21E-07					41974385	
rs80066790	Imputed	1.21E-07					41975847	
rs1474219	Imputed	1.01E-07					41975917	
rs79323474	Imputed	1.21E-07					41975977	
rs73071259	Imputed	1.26E-06					41976851	
rs7639859	Imputed	1.21E-07					41976991	
rs55916855	Imputed	1.22E-07					41977765	
rs11717170	Imputed	1.01E-07					41977815	
rs73071261	Imputed	1.22E-07					41978373	
ULK4_Exon_1							41978512	41978664
rs73830585	Imputed	1.47E-07					41978702	
			mod073652	PreMod	11		41978915	41979112
rs62257277	Imputed	0.12057					41979232	
rs56201224	Imputed	1.47E-07					41979431	
rs55953604	Imputed	1.47E-07					41979432	
rs4434125	Imputed	1.22E-07					41979685	
rs4258935	Imputed	0.0044669					41979697	
rs2090801	Imputed	1.00E-07					41979785	

rs56290987	Imputed	1.22E-07	41979886
rs60966614	Imputed	1.25E-06	41980170
rs12492599	Imputed	1.01E-07	41980738
rs73073226	Imputed	1.22E-07	41980842
rs74947509	Imputed	1.22E-07	41981327
rs73073228	Imputed	1.26E-06	41982054
rs10510732	Imputed	8.90E-08	41982343
rs73073229	Imputed	1.22E-07	41982854
rs113379006	Imputed	1.22E-07	41983190
rs73073230	Imputed	1.22E-07	41983267
rs113144620	Imputed	1.22E-07	41983316
rs78629637	Imputed	1.22E-07	41983785
rs10510733	Imputed	1.22E-07	41984196
rs9835059	Imputed	1.01E-07	41984730
rs73073233	Imputed	1.23E-07	41985554
rs73073234	Imputed	1.24E-07	41987075
rs73073235	Imputed	1.02E-07	41987697
rs56332587	Imputed	1.25E-07	41987718
rs7373694	Imputed	1.02E-07	41987723
rs58916656	Imputed	1.25E-07	41987785
rs9856633	Imputed	9.87E-08	41988854
rs73073238	Imputed	1.33E-07	41989329
rs73073239	Imputed	7.27E-06	41989601
rs13087502	Imputed	6.79E-06	41990114
rs73073242	Imputed	8.37E-06	41990339
rs73073245	Imputed	8.44E-06	41991150
rs12108064	Imputed	6.24E-06	41991221
rs73073250	Imputed	8.48E-06	41991563
rs73073252	Imputed	6.28E-06	41991895
rs115754309	Imputed	8.55E-06	41992250
rs73073253	Imputed	8.56E-06	41992498
rs13084436	Imputed	6.31E-06	41992541
rs17218866	Imputed	8.58E-06	41992638
rs6796078	Imputed	6.33E-06	41992824
rs73073258	Imputed	1.09E-05	41992898
rs6801339	Imputed	6.34E-06	41993237
rs73073262	Imputed	8.63E-06	41993447
rs73073263	Imputed	8.65E-06	41993670
rs17218936	Imputed	5.68E-06	41994396
rs7634985	Genotyped	6.39E-06	41994569
rs7652369	Imputed	6.50E-06	41995977
rs73073266	Imputed	8.84E-06	41996120
rs73073267	Imputed	8.84E-06	41996167
rs73073268	Imputed	8.86E-06	41996407
rs1851149	Imputed	6.54E-06	41996712
rs80120812	Imputed	8.89E-06	41996764
rs111788014	Imputed	8.89E-06	41996800
rs73073270	Imputed	8.91E-06	41997149
rs73073272	Imputed	8.93E-06	41997450
rs73073274	Imputed	8.96E-06	41997814
rs6798152	Imputed	6.65E-06	41998562
rs79626430	Imputed	9.04E-06	41998790
rs2683692	Imputed	6.70E-06	41999531
rs7647902	Imputed	0.57843	41999669
rs112310714	Imputed	9.13E-06	41999801
rs73073276	Imputed	4.00E-05	42000358
rs78662667	Imputed	9.20E-06	42000583
rs73073280	Imputed	9.20E-06	42000776
rs794902	Imputed	6.79E-06	42000943
rs73073281	Imputed	1.17E-05	42001370
rs56008529	Imputed	1.17E-05	42001759
rs56865718	Imputed	9.34E-06	42002251
rs1087599	Imputed	6.89E-06	42002367
rs116717051	Imputed	7.14E-05	42002415

rs73073285	Imputed	9.37E-06				42002570	
rs73073288	Imputed	9.37E-06				42002641	
rs73073290	Imputed	9.38E-06				42002688	
rs73073291	Imputed	9.41E-06				42003008	
rs73073292	Imputed	9.41E-06				42003027	
rs73073294	Imputed	9.41E-06				42003057	
rs73073296	Imputed	9.42E-06				42003078	
rs73830596	Imputed	9.43E-06				42003227	
rs78402272	Imputed	9.45E-06				42003429	
rs113496706	Imputed	9.46E-06				42003578	
rs73073298	Imputed	6.98E-06				42003661	
rs794899	Imputed	6.98E-06				42003726	
rs73073301	Imputed	9.48E-06				42003781	
rs61646756	Imputed	9.58E-06				42004356	
rs17284933	Imputed	7.44E-06				42004839	
rs73073302	Imputed	9.67E-06				42004883	
rs113027442	Imputed	5.81E-06				42005033	
rs79239400	Imputed	1.23E-05				42005253	
rs73075204	Imputed	9.82E-06				42005396	
rs115135603	Imputed	1.02E-05				42006626	
rs794897	Imputed	7.59E-06				42006869	
rs75308766	Imputed	1.03E-05				42006898	
rs794896	Imputed	7.60E-06				42006906	
rs794895	Imputed	7.62E-06				42006978	
rs794894	Genotyped	5.89E-06				42007487	
rs61182696	Imputed	1.05E-05				42007515	
rs73075211	Imputed	1.09E-05				42008428	
rs75047809	Imputed	1.09E-05				42008441	
rs76127736	Imputed	1.38E-05				42008649	
rs11926737	Imputed	8.24E-06				42009011	
rs794905	Imputed	8.50E-06				42009734	
rs794904	Imputed	8.63E-06				42010161	
rs77014899	Imputed	1.63E-05				42012884	
rs73075219	Imputed	1.33E-05				42013433	
rs57945879	Imputed	1.35E-05				42013846	
			TBP	TransFac	2.09	42015008	42015023
rs4246670	Imputed	0.677				42015970	
rs11298306	Imputed	0.15474				42017411	
rs73828505	Imputed	1.11E-05				42017718	
rs7629767	Genotyped	1.65E-05				42018513	
rs60525434	Imputed	1.26E-05				42019290	
rs75687617	Imputed	2.13E-05				42019668	
rs113956045	Imputed	2.15E-05				42020307	
rs56212772	Imputed	1.89E-05				42021784	
rs73075224	Imputed	1.88E-05				42023252	
rs62257301	Imputed	0.321				42023855	
rs73075228	Imputed	2.31E-05				42024633	
rs73075230	Imputed	2.00E-05				42025628	
rs116425691	Imputed	0.024005				42025717	
			AP-1	TransFac	2.01	42026162	42026175
			NRSF	TransFac	2.32	42026172	42026193
rs73075231	Imputed	2.06E-05				42026698	
rs73075234	Imputed	2.42E-05				42026805	
rs12635286	Imputed	2.86E-05				42026840	
rs17219090	Imputed	2.45E-05				42026956	
rs794892	Imputed	2.67E-05				42027936	
rs704964	Imputed	2.92E-05				42028903	
rs78179159	Imputed	0.0046701				42029468	
rs112912733	Imputed	2.28E-05				42029914	
			CREB	TransFac	3.35	42030098	42030113
			ATF	TransFac	3.09	42030101	42030115
			ATF-2	TransFac	2.86	42030102	42030114
			Egr-2	TransFac	2.21	42030240	42030252
			Egr-3	TransFac	2.47	42030240	42030252

			Egr-1	TransFac	2.67	42030240	42030252
			mod073653	PreMod	12	42030536	42030641
rs939561	Genotyped	0.00013195				42032105	
rs73075241	Imputed	2.46E-05				42033049	
rs115702638	Imputed	3.98E-05				42033598	
			TBP	TransFac	2.15	42034998	42035013
rs7652506	Imputed	4.38E-05				42035239	
rs12152489	Imputed	2.43E-05				42035406	
rs56994465	Imputed	3.96E-05				42036610	
rs794890	Imputed	3.94E-05				42037343	
			AP-1	TransFac	1.98	42037660	42037669
			POU3F2	TransFac	2.94	42037885	42037899
rs73075250	Imputed	3.80E-05				42038738	
			FOXO4	TransFac	2.27	42038786	42038797
rs809930	Imputed	5.26E-05				42040009	
			Sp1	TransFac	2.11	42040119	42040129
			Pax-2	TransFac	2.35	42040635	42040644
			Hlf	TransFac	2.65	42041048	42041058
rs78138299	Imputed	0.0042073				42041509	
rs111843636	Imputed	0.0153				42041637	
rs17219278	Imputed	0.0042571				42041772	
			mod073654	PreMod	11	42042172	42042335
			AP-4	TransFac	2.53	42042286	42042296
			E47	TransFac	2.4	42042319	42042335
			ITF-2	TransFac	2.69	42042319	42042335
rs17219347	Genotyped	0.018052				42042673	
rs9882416	Imputed	0.029958				42043083	
rs9867307	Imputed	0.47001				42043790	
rs11706533	Imputed	0.56842				42044191	
rs112161509	Imputed	0.01542				42044365	
rs6792201	Imputed	0.030341				42046256	
rs112365214	Imputed	0.015285				42046433	
rs28491668	Imputed	0.18135				42046870	
rs111834569	Imputed	0.015192				42047860	
rs58789787	Imputed	0.015205				42048069	
rs75925483	Imputed	0.015201				42048595	
rs17066958	Imputed	0.033432				42048961	
rs73075261	Imputed	0.5014				42049207	
rs73075263	Imputed	0.50104				42049386	
			mod073655	PreMod	10	42049609	42049739
			POU3F2	TransFac	1.96	42049767	42049783
rs60842989	Imputed	0.015129				42051376	
rs904269	Genotyped	0.45263				42051626	
rs12106811	Genotyped	0.371				42051974	
rs12107568	Imputed	0.5673				42052126	
			STAT3	TransFac	1.96	42052495	42052503
rs59424237	Imputed	0.015242				42052668	
rs17219472	Imputed	0.014713				42053211	
rs111836559	Imputed	0.0035872				42053365	
rs113737622	Imputed	0.0035904				42053372	
rs9847688	Genotyped	0.57068				42054115	
rs112432350	Imputed	0.015452				42055100	
rs112431774	Imputed	0.0043895				42055145	
rs72867930	Imputed	0.0043868				42055231	
rs6599200	Imputed	0.0043717				42055929	
rs76598442	Imputed	0.015391				42056457	
rs112784949	Imputed	0.0043084				42058719	
rs9850297	Imputed	0.015235				42059431	
			FAC1	TransFac	2.1	42059632	42059646
rs116626028	Imputed	0.027121				42060001	
rs9836286	Imputed	0.034924				42060747	
rs9836323	Imputed	0.015198				42060915	
rs73828516	Imputed	0.0042988				42061576	
rs114978877	Imputed	0.026878				42061755	

rs9842053	Imputed	0.0035678				42061966	
rs77471246	Imputed	0.015161				42062092	
rs1553097	Imputed	0.026768				42062328	
rs76550373	Imputed	0.015158				42062379	
rs61474116	Imputed	0.015077				42063679	
rs55920039	Imputed	0.014908				42064012	
rs9815291	Imputed	0.014002				42064370	
rs1117773	Imputed	0.66377				42064911	
rs73075268	Imputed	0.014792				42065203	
rs1002947	Imputed	0.66287				42065248	
rs975580	Imputed	0.014723				42065692	
rs4298022	Imputed	0.07963				42066367	
rs75016701	Imputed	0.079436				42066505	
rs7636449	Imputed	0.70725				42066748	
rs6791328	Imputed	0.70764				42067184	
rs79917813	Imputed	0.078696				42067470	
rs79237428	Imputed	0.078478				42067656	
rs1498095	Imputed	0.078143				42068426	
rs28759206	Imputed	0.0041918				42068459	
rs1498094	Imputed	0.078097				42068756	
rs41460244	Imputed	0.062179				42069173	
rs77304047	Imputed	0.07781				42069312	
rs78875537	Imputed	0.014864				42070290	
rs28503399	Imputed	0.71344				42070313	
rs78101822	Imputed	0.077191				42071137	
rs80194901	Imputed	0.077346				42071187	
rs9862024	Imputed	0.79329				42071245	
rs78607708	Imputed	0.076927				42071959	
rs76009754	Imputed	0.076724				42072326	
rs75280714	Imputed	0.076613				42072507	
rs61206862	Imputed	0.71747				42072745	
rs60715079	Imputed	0.71764				42072936	
			mod073656	PreMod	10	42073316	42073493
			RSRFC4	TransFac	2.58	42073501	42073517
			E47	TransFac	2.2	42073666	42073682
			AREB6	TransFac	1.96	42073668	42073680
			POU2F1	TransFac	2.23	42073708	42073723
rs1874757	Imputed	0.076349				42073716	
rs28514872	Imputed	0.014742				42074223	
rs6782307	Imputed	0.81578				42074701	
rs75930447	Imputed	0.037513				42075767	
rs80042369	Imputed	0.00418				42076091	
rs77341013	Imputed	0.075361				42076264	
rs6762869	Imputed	0.7238				42076722	
rs75878015	Imputed	0.074149				42077528	
			mod073657	PreMod	10	42078044	42078136
			RSRFC4	TransFac	2.2	42078097	42078113
			LUN-1	TransFac	2.08	42078113	42078130
			Arnt	TransFac	2.1	42078116	42078136
			SREBP-1a	TransFac	2.01	42078120	42078131
rs76816445	Imputed	0.071942				42078829	
rs59983764	Imputed	0.03724				42079483	
rs75851484	Imputed	0.033117				42079686	
rs56158038	Imputed	0.38803				42080213	
rs4974016	Genotyped	0.73347				42080679	
rs112923795	Imputed	0.0055452				42081466	
rs4974015	Imputed	0.67264				42081512	
rs6778412	Imputed	0.67144				42082230	
rs4973903	Imputed	0.67024				42082943	
rs77488722	Imputed	0.032554				42082950	
			Elk-1	TransFac	2.17	42084180	42084196
rs114221166	Imputed	0.097385				42084300	
rs1532495	Imputed	0.58153				42084328	
rs11129937	Imputed	0.5181				42085098	

rs79464572	Imputed	0.032847				42085588	
rs11719429	Imputed	0.55027				42085801	
rs5029848	Genotyped	0.54165				42085847	
rs7612179	Imputed	0.55061				42086144	
rs17067692	Imputed	0.034053				42087599	
rs11926615	Imputed	0.55015				42088173	
			TBP	TransFac	2.31	42088964	42088979
			RSRFC4	TransFac	2.59	42088966	42088982
			E4BP4	TransFac	3.94	42089022	42089034
			Hlf	TransFac	2.02	42089023	42089033
			ATF-2	TransFac	3.28	42089024	42089032
rs7644110	Genotyped	0.52507				42090492	
rs77571642	Imputed	0.036013				42090580	
rs74510803	Imputed	0.036031				42090596	
rs17067739	Imputed	0.55043				42090785	
rs78448473	Imputed	0.036028				42091188	
rs9878324	Imputed	0.55233				42091441	
rs9861303	Imputed	0.49414				42091761	
rs2133070	Imputed	0.49906				42092488	
rs11713669	Imputed	0.0062779				42093180	
rs2371970	Imputed	0.50252				42093704	
rs6801363	Imputed	0.56123				42094377	
rs1909116	Imputed	0.46768				42094483	
rs59987266	Imputed	0.57619				42095004	
rs7644706	Imputed	0.47813				42095198	
rs56207348	Imputed	0.56561				42095973	
rs11129938	Imputed	0.50907				42096046	
rs6779231	Imputed	0.53352				42096633	
rs17067875	Imputed	0.55165				42097996	
rs61341025	Imputed	0.0071431				42098218	
rs11928711	Imputed	0.58721				42099039	
rs1466811	Imputed	0.58776				42099369	
rs1466810	Imputed	0.4675				42099645	
rs57946975	Imputed	0.0074748				42100375	
rs952731	Imputed	0.50745				42100926	
rs4974014	Imputed	0.52359				42101812	
rs115594503	Imputed	0.036081				42102811	
			AP-2rep	TransFac	2.36	42103690	42103697
			LUN-1	TransFac	2.97	42103855	42103872
rs11712096	Imputed	0.59954				42104112	
rs2088478	Imputed	0.5457				42105999	
rs1995137	Genotyped	0.53039				42106419	
rs1995136	Imputed	0.53628				42106505	
rs2173336	Genotyped	0.56086				42106738	
rs2133069	Imputed	0.5241				42106833	
rs4974012	Imputed	0.5396				42107043	
TRAK1_Exon_1						42107750	42108056
			GATA-3	TransFac	2.48	42107760	42107769
			Lmo2	TransFac	2.55	42107760	42107769
			E4BP4	TransFac	3.65	42107785	42107797
			Hlf	TransFac	3.59	42107786	42107796
			ATF-2	TransFac	3.28	42107787	42107795
TRAK1_Intron_1						42108057	42141915
rs4974011	Imputed	0.54817				42108153	
rs4538349	Imputed	0.13103				42108756	
			POU2F1	TransFac	2.59	42108989	42109001
			POU3F2	TransFac	2.44	42108990	42109000
rs9829220	Imputed	0.4798				42109182	
rs11129939	Imputed	0.32358				42109259	
rs7371986	Imputed	0.54283				42109998	
rs113494527	Imputed	0.0088235				42110004	
rs10865915	Imputed	0.64463				42111013	
rs13322238	Imputed	0.58987				42111977	
rs1909115	Imputed	0.59487				42112324	

rs4974010	Imputed	0.53957				42112943	
rs7649478	Imputed	0.51805				42113529	
rs11918064	Imputed	0.53299				42113818	
rs11918098	Imputed	0.5329				42113916	
rs60611904	Imputed	0.49946				42114512	
rs9851708	Imputed	0.49964				42114546	
rs61473607	Imputed	0.53079				42114604	
rs12054017	Imputed	0.53066				42114696	
rs11129940	Imputed	0.5768				42114881	
rs11710716	Imputed	0.57536				42115371	
rs13434127	Imputed	0.57275				42116257	
rs12715376	Imputed	0.40941				42116474	
rs6809665	Imputed	0.52248				42117354	
rs6806570	Imputed	0.043946				42118120	
rs1532496	Imputed	0.47779				42118220	
rs4974009	Imputed	0.52651				42119066	
rs9830266	Imputed	0.6418				42119428	
rs6808207	Imputed	0.64048				42119985	
rs112406027	Imputed	0.009573				42120523	
rs113712414	Imputed	0.082167				42120950	
rs13322778	Imputed	0.046466				42121273	
rs7651006	Imputed	0.70325				42123303	
rs9872115	Imputed	0.61373				42123985	
rs9867570	Imputed	0.65926				42126472	
rs2133068	Imputed	0.4281				42127560	
rs12330868	Imputed	0.65446				42128686	
rs7618392	Imputed	0.018586				42128868	
rs7426457	Imputed	0.4558				42129651	
rs9875626	Imputed	0.45875				42129846	
rs56776002	Imputed	0.63976				42129895	
rs9855913	Imputed	0.45982				42129933	
rs9875966	Imputed	0.63844				42130012	
rs75563240	Imputed	0.019275				42130383	
rs12630954	Imputed	0.46655				42130437	
rs9861726	Imputed	0.52707				42131251	
rs2133076	Imputed	0.61861				42131669	
rs1562690	Imputed	0.52386				42131793	
rs4246669	Imputed	0.52166				42131890	
rs1530735	Imputed	0.61617				42131911	
rs1530736	Imputed	0.61617				42131941	
rs4246668	Imputed	0.48737				42131964	
			CREB	TransFac	2.41	42131976	42131991
rs4246667	Imputed	0.48907				42132154	
rs11718948	Imputed	0.020248				42133363	
rs55874108	Imputed	0.49685				42133487	
rs58618631	Imputed	0.49684				42133488	
rs61199298	Imputed	0.012021				42133849	
rs9877516	Imputed	0.020431				42134183	
rs4974008	Imputed	0.59873				42134355	
rs9882102	Imputed	0.08696				42134518	
rs9311294	Imputed	0.60049				42134526	
rs4973902	Imputed	0.59591				42135765	
rs11706587	Imputed	0.012293				42136076	
rs2133075	Imputed	0.5914				42138407	
rs2133074	Imputed	0.59117				42138514	
			FAC1	TransFac	1.97	42138906	42138920
rs61666600	Imputed	0.021115				42139242	
			Elk-1	TransFac	2.48	42139518	42139534
rs9311295	Genotyped	0.61185				42141173	
TRAK1_Exon_2						42141916	42142110
			E47	TransFac	1.99	42141966	42141981
			SRF	TransFac	2.86	42141998	42142016
			NCX	TransFac	2.11	42142108	42142118
TRAK1_Intron_2						42142111	42193309

rs13323147	Imputed	0.57383				42142692	
rs9858803	Imputed	0.59549				42142718	
rs1375538	Imputed	0.57095				42143045	
rs73828565	Imputed	0.02139				42143695	
			NCX	TransFac	2.11	42144190	42144200
rs114149261	Imputed	0.012652				42144396	
rs11711576	Imputed	0.021548				42145669	
			FOXD1	TransFac	2.21	42145676	42145692
			FOXF2	TransFac	2.28	42145676	42145692
			FOXC1	TransFac	2.48	42145676	42145692
rs13071805	Imputed	0.56433				42146393	
rs79456016	Imputed	0.068157				42146887	
rs73828569	Imputed	0.021611				42147540	
rs9311296	Imputed	0.47606				42148251	
rs73066375	Imputed	0.58358				42148951	
rs73066377	Imputed	0.64618				42149152	
rs4973901	Imputed	0.66409				42149505	
rs11720471	Imputed	0.0217				42150011	
rs2371796	Imputed	0.65284				42150021	
rs2371797	Imputed	0.65321				42150103	
rs66990248	Imputed	0.61709				42150891	
rs112740014	Imputed	0.012848				42150983	
rs9682203	Imputed	0.4563				42151191	
rs17220629	Imputed	0.6272				42152184	
rs1979789	Genotyped	0.71894				42152411	
rs79562303	Imputed	0.021764				42152494	
rs11709083	Imputed	0.67171				42153465	
rs2133072	Imputed	0.67176				42153763	
rs2133073	Imputed	0.67124				42153902	
rs11709411	Imputed	0.44933				42154330	
rs11129941	Imputed	0.021652				42154683	
rs9311297	Imputed	0.67119				42154874	
rs113540515	Imputed	0.021648				42155241	
rs28435580	Imputed	0.44901				42155372	
rs4974007	Imputed	0.67078				42155450	
rs2055285	Imputed	0.671				42155655	
rs77057253	Imputed	0.021653				42155697	
rs1874756	Imputed	0.67104				42156043	
			Cdc5	TransFac	3	42156237	42156249
			Meis-1	TransFac	2.06	42156293	42156305
			TGIF	TransFac	2.62	42156293	42156304
rs11129942	Imputed	0.43528				42156400	
rs9311298	Imputed	0.449				42158457	
rs113397734	Imputed	0.021523				42158567	
rs9851827	Imputed	0.70864				42158696	
rs9852262	Imputed	0.66931				42158780	
rs9852329	Imputed	0.44944				42159005	
rs9872588	Genotyped	0.015307				42159177	

2p23.3 (rs6746082)

Gene region	rsID	SNP type	P-value	TF type	Source	Score	Chrom start	Chrom end
	rs10196664	Genotyped	0.56557				25442970	
	rs34003498	Imputed	0.11453				25444536	
				TBP	TransFac	2.08	25445030	25445040
				mod056867	PreMod	13	25445033	25445143
				FOXC1	TransFac	2.22	25445057	25445073
				CREB	TransFac	2.03	25445205	25445217
				ATF-2	TransFac	2.21	25445205	25445217
				ZID	TransFac	2.27	25445686	25445699
				AP-2rep	TransFac	2.36	25446291	25446298
				E47	TransFac	2.05	25446586	25446602
				mod056868	PreMod	11	25448348	25448517
				CUTL1	TransFac	1.99	25448372	25448382
				Lmo2	TransFac	2.01	25448508	25448517
	rs1010658	Genotyped	4.72E-05				25448698	
	rs1010659	Imputed	3.83E-05				25448901	
	rs11126026	Imputed	0.026458				25449565	
	rs11126027	Imputed	6.18E-06				25449648	
	rs7586928	Imputed	6.07E-06				25449826	
	rs732075	Imputed	6.00E-06				25449935	
	rs732076	Imputed	5.95E-06				25450013	
	rs732077	Imputed	0.002181				25450236	
	rs62131105	Imputed	0.55008				25450325	
	rs730072	Genotyped	0.71492				25451185	
	rs1550118	Imputed	0.3058				25451489	
	rs1550119	Imputed	0.70269				25451492	
	rs744976	Imputed	0.69883				25451922	
				AP-4	TransFac	2.66	25453056	25453074
				TBP	TransFac	2.21	25453091	25453106
				TBP	TransFac	2.14	25453101	25453109
				TBP	TransFac	2.14	25453107	25453115
				RSRFC4	TransFac	2.86	25453124	25453140
				SREBP-1a	TransFac	2.01	25453194	25453205
				NRSF	TransFac	2.19	25453424	25453445
DTNB_ Exon_21							25453616	25453926
				MZF-1	TransFac	2.01	25453757	25453765
				AREB6	TransFac	2.74	25453829	25453841
DTNB_ Intron_20							25453927	25455662
	rs2304426	Imputed	0.00077728				25455646	
				AREB6	TransFac	2.98	25455655	25455668
DTNB_ Exon_20							25455663	25455696
DTNB_ Intron_19							25455697	25460208
				c-Rel	TransFac	2.85	25455768	25455778
	rs2304427	Genotyped	0.0045196				25455814	
	rs2304428	Imputed	0.0045713				25455954	
				FOXL1	TransFac	2.77	25456564	25456580
	rs12986453	Imputed	0.0090515				25458341	
	rs55924491	Imputed	1.28E-07				25458527	
	rs35010208	Imputed	0.0035635				25459476	
	rs10205701	Imputed	0.0052952				25459799	
DTNB_ Exon_19							25460209	25460262
DTNB_ Intron_18							25460263	25463661
	rs6761076	Imputed	1.81E-07				25461262	
				AREB6	TransFac	2.15	25463156	25463168
DTNB_ Exon_18							25463662	25463751
				XBP-1	TransFac	2.23	25463682	25463699
				ZID	TransFac	2.48	25463698	25463711
				AP-1	TransFac	2.06	25463701	25463714
				AREB6	TransFac	2.31	25463744	25463757
DTNB_ Intron_17							25463752	25464574

DTNB_Exon_17				25464575	25464734		
DTNB_Intron_16				25464735	25495887		
rs62131107	Imputed	0.00011494		25466229			
rs7558082	Imputed	5.39E-07		25466318			
rs7577599	Genotyped	2.96E-07		25466650			
rs1865693	Imputed	0.00012096		25473981			
rs17046986	Imputed	0.0001217		25474404			
rs7571570	Genotyped	0.000147		25475034			
rs6724910	Imputed	0.00011158		25475943			
rs1369704	Imputed	7.30E-05		25477094			
rs2384232	Genotyped	8.85E-05		25477253			
rs10206012	Imputed	6.97E-05		25477690			
			CUTL1	TransFac	2.03	25478056	25478071
			AP-1	TransFac	2.79	25478218	25478227
			mod056869	PreMod	11	25478227	25478352
			E47	TransFac	2.37	25478239	25478255
			ITF-2	TransFac	3.09	25478239	25478255
			POU2F1	TransFac	2.33	25478284	25478296
rs6546148	Imputed	6.87E-05		25478509			
rs7583617	Imputed	9.58E-05		25479363			
rs7570164	Imputed	6.75E-05		25479740			
rs7586918	Genotyped	8.78E-05		25479889			
rs12622767	Imputed	7.74E-06		25481420			
rs6756177	Imputed	3.24E-05		25482401			
rs6546149	Imputed	2.24E-05		25482942			
rs60462983	Imputed	5.26E-06		25483029			
rs10180663	Genotyped	1.10E-05		25486746			
rs10189164	Imputed	0.000492		25486872			
rs34234907	Imputed	0.034376		25487740			
rs6731296	Imputed	5.87E-05		25488331			
rs35602018	Imputed	0.011966		25488768			
rs35065219	Imputed	0.0018999		25488962			
rs34845373	Imputed	0.01125		25489275			
rs13013139	Imputed	0.059091		25491609			
rs12987881	Imputed	0.0019359		25491912			
			ARP-1	TransFac	2.14	25492446	25492462
rs59861869	Imputed	0.0010691		25493177			
rs71439176	Imputed	0.0019642		25494932			
			Nkx6-1	TransFac	1.98	25495557	25495570
			POU2F1	TransFac	2.36	25495597	25495620
			FOXD1	TransFac	2.41	25495701	25495717
			FOXF2	TransFac	2.84	25495701	25495717
rs17745893	Imputed	0.045507		25495798			
DTNB_Exon_16				25495888	25495908		
DTNB_Intron_15				25495909	25503907		
			Sox9	TransFac	2	25496041	25496055
			SREBP-1a	TransFac	1.98	25496380	25496391
rs17802463	Imputed	0.023099		25496725			
rs70947889	Imputed	0.014929		25496897			
rs112612430	Imputed	0.014933		25496901			
rs10194144	Imputed	0.25289		25497036			
rs17745923	Genotyped	0.025755		25497448			
rs34104763	Imputed	0.023128		25497703			
rs12472283	Imputed	0.0231		25498047			
rs34666683	Imputed	0.034438		25498441			
rs4389287	Imputed	9.25E-05		25499393			
rs77188277	Imputed	0.032786		25499545			
rs13032262	Imputed	0.059719		25499825			
rs12470950	Imputed	0.032788		25500194			
rs6722782	Imputed	0.023963		25501181			
rs80213147	Imputed	0.095948		25501266			
rs36028066	Imputed	0.023161		25502168			
rs78024702	Imputed	0.095758		25502398			
rs13025966	Imputed	0.0231		25502680			

DTNB_Exon_15				25503908	25504004
DTNB_Intron_14				25504005	25509258
rs34648410	Imputed	0.022017		25504135	
rs34736805	Imputed	0.031652		25504377	
rs13430973	Imputed	0.68625		25506911	
rs10198073	Imputed	0.095172		25507324	
rs7605235	Imputed	0.030236		25507553	
			Pbx1a	TransFac	2.27
			CUTL1	TransFac	2.51
rs11126052	Imputed	0.017179		25508364	25508373
rs2292225	Genotyped	0.0069348		25508364	25508379
				25508895	
				25508950	
DTNB_Exon_14				25509259	25509372
rs7583475	Genotyped	0.0047456		25509276	
			Pax-5	TransFac	2.03
DTNB_Intron_13				25509295	25509323
rs10495752	Imputed	0.044491		25509373	25510282
				25509652	
DTNB_Exon_13				25510283	25510368
			FOXO4	TransFac	1.97
			FOXI1	TransFac	2.18
			AP-2rep	TransFac	2.36
				25510352	25510359
DTNB_Intron_12				25510369	25527920
			MZF-1	TransFac	2.2
rs1395949	Imputed	0.78229		25510372	25510380
rs11126053	Imputed	0.0074606		25510384	
rs12996921	Imputed	0.0079423		25510906	
rs6755057	Imputed	0.80025		25511414	
rs10865350	Imputed	0.85231		25511602	
rs2384234	Genotyped	0.067533		25511888	
rs114859667	Imputed	2.44E-06		25512312	
rs6746082	Genotyped	2.68E-07		25512748	
rs4499386	Imputed	0.81463		25512717	
rs4302184	Imputed	0.3052		25513528	
rs7589394	Imputed	4.65E-07		25513855	
rs55758232	Imputed	0.042895		25515248	
rs10210057	Genotyped	0.32776		25515334	
				25516082	
			Oct-B1	TransFac	2.37
			POU2F1	TransFac	2.05
rs1006752	Genotyped	7.10E-06		25516898	25516911
				25517090	25517109
				25517495	
			TGIF	TransFac	2.38
rs2036653	Imputed	2.57E-07		25517862	25517873
rs34825449	Imputed	0.010281		25520473	
				25520623	
			FOXO4	TransFac	2.36
			RSRFC4	TransFac	2.66
			TBP	TransFac	2.14
			Oct-B1	TransFac	2.33
rs6546181	Genotyped	0.78388		25521155	25520953
				25521159	25521171
				25521192	25521205
				2552196	
			HSF1	TransFac	2
rs6721434	Imputed	0.26752		25522557	25522567
rs6712045	Imputed	2.90E-06		25523021	
rs13390436	Imputed	2.28E-07		25523477	
rs7566839	Imputed	0.70099		25524281	
rs62128541	Imputed	0.65472		25524317	
rs34296691	Imputed	0.041439		25524343	
rs6546183	Genotyped	4.87E-07		25524722	
rs56131005	Imputed	0.012496		25525310	
rs6546184	Imputed	2.84E-07		25525639	
rs13397493	Imputed	2.86E-07		25525973	
rs79507366	Imputed	0.31506		25526196	
				25526626	
			Oct-B1	TransFac	2.25
DTNB_Exon_12				25527857	25527870
DTNB_Intron_11				25527921	25528008
rs10495753	Genotyped	0.23942		25528009	25531777
rs1122350	Imputed	0.073216		25529199	
rs6715574	Imputed	0.29238		25529216	
				25530249	

	rs6758432	Imputed	0.009557				25530487	
	rs6733060	Imputed	3.54E-06				25531501	
DTNB_Exon_11							25531778	25531867
				MIF-1	TransFac	2.24	25531859	25531877
DTNB_Intron_10							25531868	25559168
	rs79890247	Imputed	0.27421				25532439	
	rs7563976	Imputed	0.11811				25533100	
	rs4665293	Imputed	0.12117				25534183	
	rs113288889	Imputed	6.91E-06				25535056	
	rs13387987	Imputed	3.11E-07				25535920	
	rs6546199	Genotyped	0.18624				25536951	
	rs111796678	Imputed	0.19019				25537275	
	rs2384235	Imputed	0.15338				25537622	
	rs6546201	Imputed	0.16649				25539937	
	rs34466502	Imputed	0.0099445				25545169	
	rs13386804	Imputed	0.14226				25545616	
	rs6546204	Imputed	0.16401				25546774	
				POU2F1	TransFac	2.22	25549997	25550020
				POU2F1	TransFac	2.4	25550629	25550641
				POU3F2	TransFac	2.13	25550630	25550640
	rs6737282	Imputed	0.16241				25550907	
	rs6740340	Imputed	0.025078				25550937	
	rs62128545	Imputed	0.029347				25551685	
	rs4665791	Imputed	2.58E-06				25552351	
	rs504855	Imputed	0.18937				25553938	
	rs559802	Imputed	0.16056				25555416	
	rs34311155	Imputed	0.012638				25555559	
				CUTL1	TransFac	2.56	25556441	25556453
				Pbx1a	TransFac	2.21	25558102	25558117
	rs6751254	Genotyped	0.026562				25558932	
DTNB_Exon_10							25559169	25559246
				MZF-1	TransFac	2.21	25559234	25559247
DTNB_Intron_9							25559247	25607845
				IRF-7A	TransFac	2.24	25560998	25561016
				Elk-1	TransFac	2.29	25561167	25561183
	rs79386975	Imputed	0.017856				25561184	
				POU2F1	TransFac	2	25561219	25561238
				POU3F2	TransFac	2.03	25561223	25561233
				CUTL1	TransFac	2.41	25561244	25561259
				TBP	TransFac	2.04	25561322	25561330
	rs2055718	Imputed	0.13023				25563594	
	rs9917341	Imputed	0.014535				25566429	
	rs603235	Imputed	0.14293				25567501	
				AP-1	TransFac	2.67	25567845	25567858
	rs1507705	Genotyped	0.00060287				25568420	
				Sox9	TransFac	2.47	25568768	25568782
	rs7577573	Imputed	7.31E-06				25570101	
	rs679112	Imputed	7.23E-06				25571556	
				Nkx6-1	TransFac	2.08	25572514	25572527
				FOXD1	TransFac	2.14	25573297	25573313
	rs72851462	Imputed	0.0017936				25576542	
	rs6728820	Imputed	0.00012141				25578390	
	rs6725828	Imputed	8.46E-05				25578561	
	rs545065	Imputed	0.0003734				25579627	
	rs9309386	Genotyped	0.87524				25581414	
	rs10495754	Genotyped	0.81226				25581791	
	rs551405	Imputed	0.00015641				25582511	
	rs67442259	Imputed	0.22699				25583194	
	rs1965239	Imputed	0.00015235				25583225	
	rs671826	Imputed	0.00015419				25583573	
	rs683662	Imputed	0.00015339				25583848	
	rs517506	Imputed	0.00015331				25583908	
	rs517403	Genotyped	0.00015059				25583943	
	rs685899	Imputed	0.00015351				25584344	

rs2384237	Imputed	0.00031659				25584893	
rs2384238	Imputed	0.0003166				25584917	
rs503169	Imputed	0.00015428				25588576	
rs519177	Imputed	0.0001671				25590545	
rs3100635	Imputed	0.033214				25593289	
rs596173	Imputed	0.00060355				25594495	
rs499728	Genotyped	0.10446				25594525	
rs498963	Imputed	0.00060561				25594565	
rs78399652	Imputed	0.087276				25594676	
rs670343	Imputed	0.00065533				25598235	
			FOXD1	TransFac	2.04	25598606	25598622
			FOXO4	TransFac	2.91	25598606	25598620
rs13388279	Imputed	0.90859				25599230	
rs6546237	Imputed	0.00032507				25602880	
rs1848307	Imputed	0.00074384				25605685	
rs624622	Imputed	0.00078526				25606483	
rs537986	Imputed	0.00079177				25607509	
rs539879	Imputed	0.00077395				25607739	
			Nkx3-1	TransFac	2.43	25607835	25607847
DTNB_Exon_9						25607846	25607970
DTNB_Intron_8						25607971	25653210
rs636586	Imputed	0.00078313				25608174	
rs6731902	Imputed	0.00082546				25608704	
			POU2F1	TransFac	2	25608729	25608744
rs936012	Genotyped	0.00071895				25609352	
rs114815360	Imputed	0.00084054				25609686	
rs483490	Imputed	0.00080705				25609768	
rs11691124	Imputed	0.96408				25610356	
rs13424814	Imputed	0.96395				25610384	
rs3100636	Imputed	0.00084503				25610584	
rs3105720	Imputed	0.00084508				25610595	
rs682888	Imputed	0.00085689				25611213	
rs503594	Imputed	0.00085739				25611307	
rs500864	Imputed	0.0036869				25611601	
rs670576	Imputed	0.00085874				25611636	
rs80307750	Imputed	0.00086187				25612181	
rs116678762	Imputed	0.075914				25612284	
rs111628494	Imputed	0.00089065				25612478	
rs476731	Genotyped	0.0013842				25613417	
rs637519	Imputed	0.0007974				25614395	
rs508262	Imputed	0.00086617				25614548	
rs840001	Imputed	0.00071909				25617094	
rs2034717	Imputed	0.036239				25619983	
			Meis-1	TransFac	2.1	25620780	25620792
rs486217	Imputed	0.00080009				25621065	
rs659323	Imputed	0.0008346				25624883	
rs658414	Imputed	0.00077469				25625065	
rs34040118	Imputed	0.036003				25626580	
rs6713224	Imputed	0.017736				25629216	
rs478237	Imputed	0.00083616				25629389	
rs12612999	Imputed	0.042671				25629465	
			POU3F2	TransFac	2.38	25629766	25629776
			Nkx6-1	TransFac	2.08	25630150	25630163
rs35062477	Imputed	0.00082518				25631683	
rs12473635	Imputed	0.00082179				25632141	
rs115996825	Imputed	0.020399				25632565	
rs61712781	Imputed	0.00082011				25632999	
			ITF-2	TransFac	2.05	25634772	25634788
rs6737159	Imputed	0.00081565				25634957	
			NCX	TransFac	2.01	25635067	25635077
rs2891464	Imputed	0.88764				25638173	
rs6722545	Imputed	0.00066944				25639403	
rs4665793	Imputed	0.89772				25640673	
rs2123825	Imputed	0.0037212				25641814	

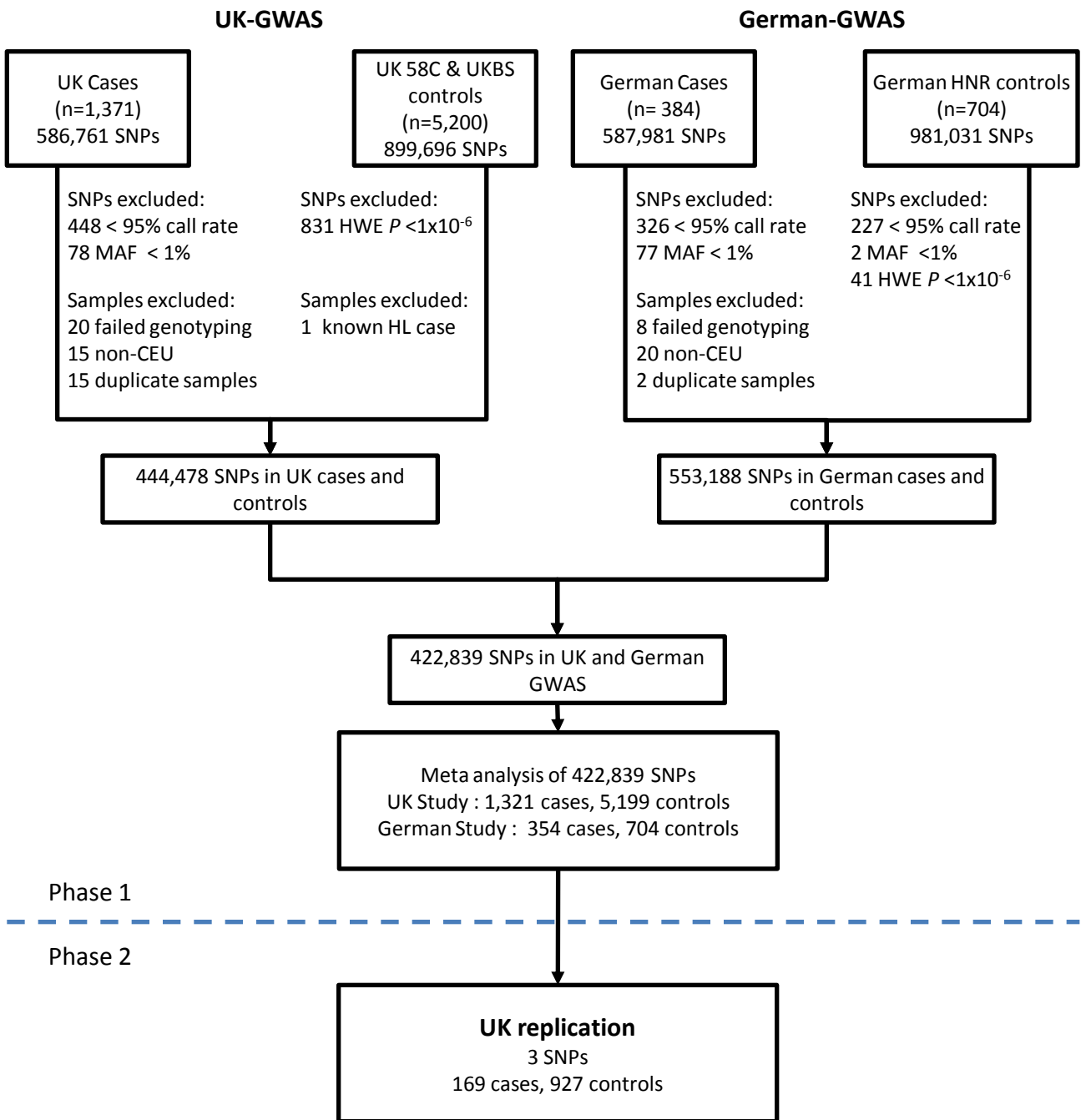
	rs2123826	Imputed	7.86E-05					25642648	
				FOXI1	TransFac	2.04		25643870	25643883
				TBP	TransFac	2.27		25643911	25643926
	rs80258673	Imputed	0.068477					25645789	
				Cdc5	TransFac	2.76		25650221	25650233
	rs2384252	Imputed	0.6707					25651616	
DTNB_Exon_8								25653211	25653377
				ATF6	TransFac	2.09		25653265	25653273
DTNB_Intron_7								25653378	25657093
				POU3F2	TransFac	3.1		25654834	25654844
				TBP	TransFac	2.72		25655575	25655590
DTNB_Exon_7								25657094	25657199
				SRF	TransFac	2		25657126	25657141
				Cart-1	TransFac	2.65		25657177	25657195
DTNB_Intron_6								25657200	25672458
	rs35921400	Imputed	0.036215					25660515	
	rs11126114	Genotyped	0.67515					25660610	
				POU3F2	TransFac	2.2		25664229	25664245
				STAT3	TransFac	2.12		25665127	25665148
DTNB_Exon_6								25672459	25672613
				ITF-2	TransFac	1.99		25672515	25672531
DTNB_Intron_5								25672614	25683608
	rs10185746	Imputed	0.88609					25674168	
	rs1377780	Genotyped	0.98293					25675193	
	rs10746531	Imputed	0.30778					25676601	
				CUTL1	TransFac	2.23		25677188	25677203
				RSRFC4	TransFac	2.54		25678018	25678034
	rs17803553	Imputed	0.536					25678607	
	rs1454083	Imputed	0.5387					25679889	
	rs12622697	Imputed	0.53945					25680772	
	rs12613835	Genotyped	0.50757					25682705	
	rs1377781	Imputed	0.54166					25682951	
	rs1377782	Imputed	0.54135					25683014	
				FOXI1	TransFac	1.96		25683199	25683212
				SREBP-1a	TransFac	2.37		25683207	25683218
				POU2F1	TransFac	2.31		25683591	25683605
				Nkx3-1	TransFac	2.77		25683598	25683610
				POU2F1	TransFac	3.49		25683605	25683619
DTNB_Exon_5								25683609	25683694
DTNB_Intron_4								25683695	25704543
				POU3F2	TransFac	2.78		25684803	25684817
	rs17747147	Imputed	0.52916					25685621	
	rs67056533	Imputed	0.52869					25685701	
	rs72797663	Imputed	0.52687					25686032	
	rs6745864	Imputed	0.053044					25688027	
	rs11678268	Genotyped	0.44967					25690660	
	rs12477988	Imputed	0.032504					25691421	
				ISGF-3	TransFac	3.02		25692508	25692523
				Cart-1	TransFac	1.98		25692911	25692929
				TBP	TransFac	2.88		25692987	25693002
	rs58541550	Imputed	0.032337					25693055	
	rs13409425	Imputed	0.90959					25693327	
	rs1377783	Imputed	0.35365					25693415	
	rs11126132	Imputed	0.5943					25694220	
				Bach1	TransFac	2.06		25695304	25695319
				AP-1	TransFac	2.01		25695305	25695318
				Cdc5	TransFac	2.09		25695335	25695347
				POU2F1	TransFac	1.96		25695502	25695514
				CUTL1	TransFac	2.13		25695768	25695780
	rs17047109	Imputed	0.032647					25696112	
	rs764956	Imputed	0.022605					25696756	
	rs11681084	Imputed	0.35903					25697305	
	rs72852637	Imputed	0.032811					25697737	
	rs6718225	Imputed	0.032862					25698332	

rs6546314 Genotyped 0.039315

25698971

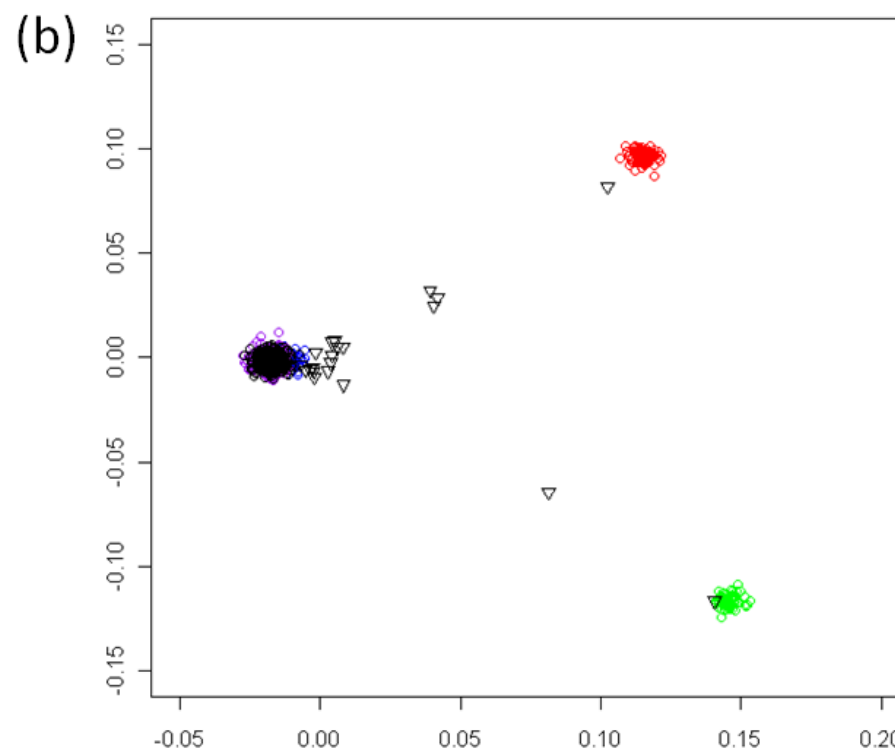
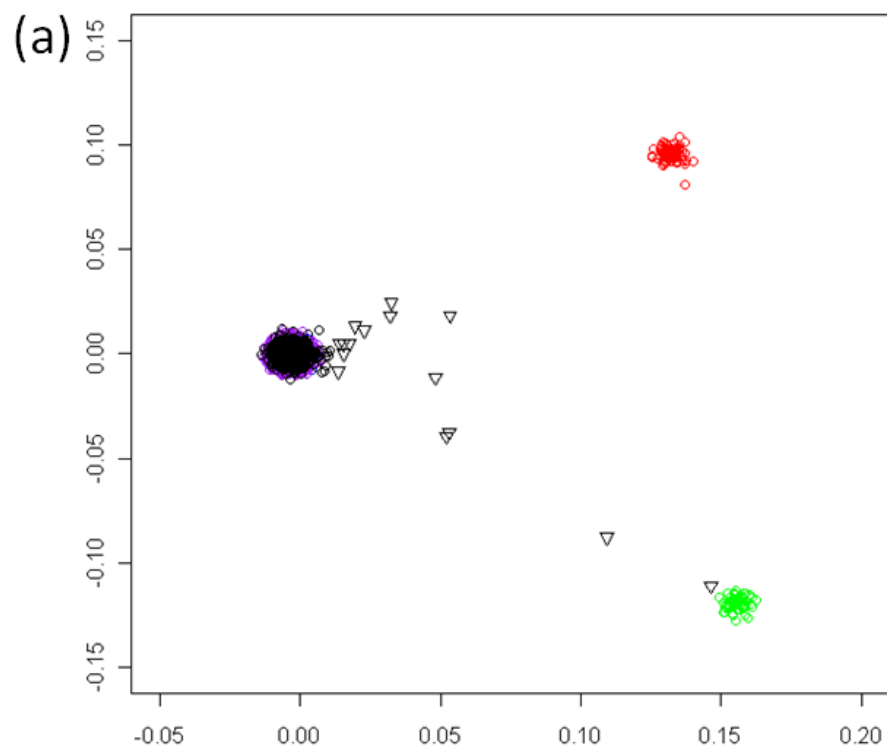
Supplementary Table 3: Relationship between rs4487645 (7p15.3), rs1052501 (3p22.1) and rs6746082 (2p23.3) genotypes and sex, age and MM phenotype.

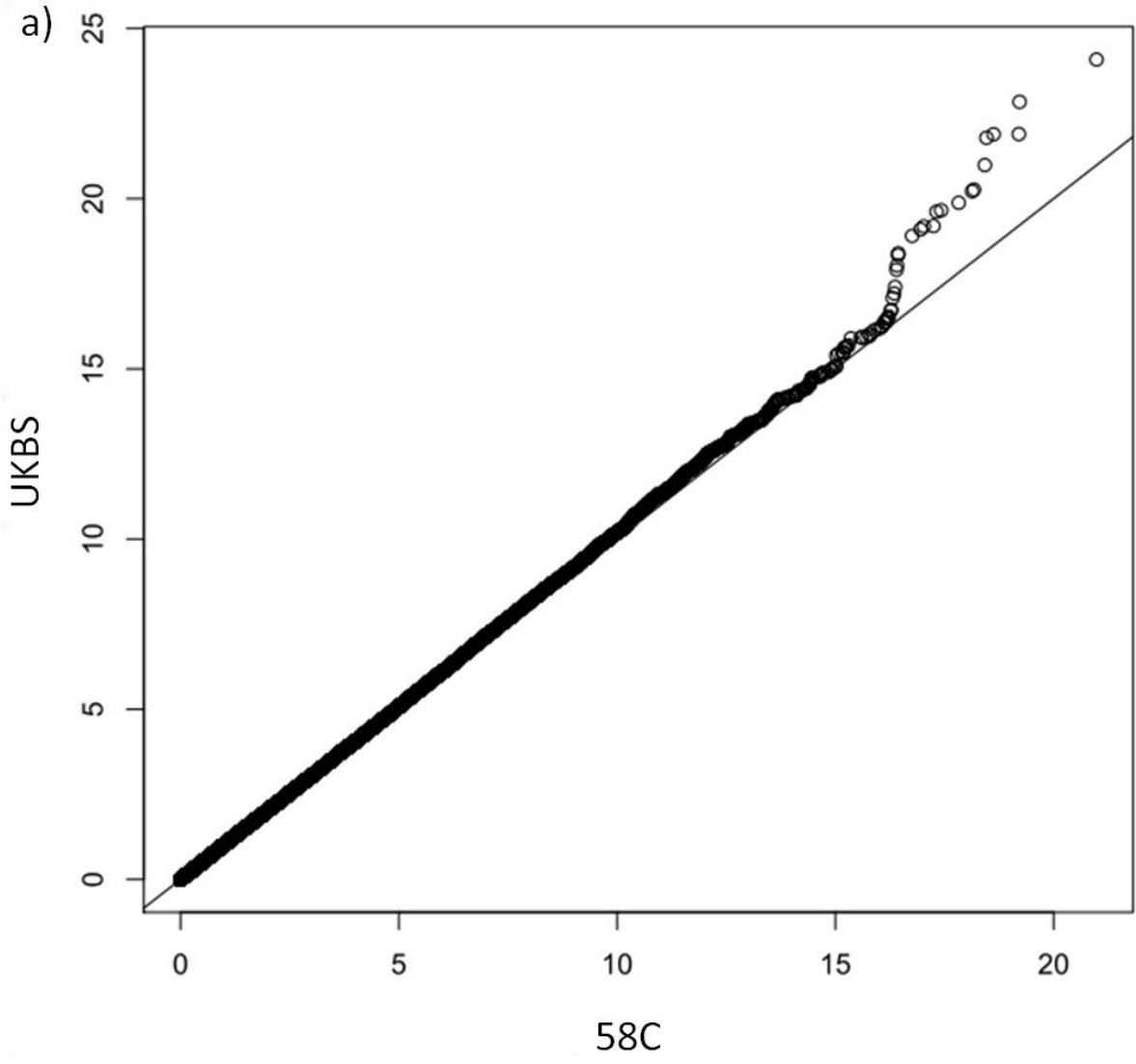
Phenotype	SNP	1						2						P-value	Q
		UK			German			UK			German				
		AA	AB	BB	AA	AB	BB	AA	AB	BB	AA	AB	BB		
Sex	rs4487645	262	223	45	88	54	6	407	324	58	118	72	16	0.67	1.47
Male =1	rs1052501	24	160	346	5	51	92	30	261	499	5	67	134	0.92	0.61
Female = 2	rs6746082	352	162	16	102	39	7	537	229	24	145	58	3	0.40	0.26
Age at diagnosis	rs4487645	304	240	33	174	107	20	365	307	70	32	19	2	0.08	1.54
<62 =1	rs1052501	23	197	358	10	95	196	31	224	487	0	23	30	0.41	0.97
≥62 = 2	rs6746082	390	173	15	210	82	9	499	218	25	37	15	1	0.79	0.06
Hyperdiploidy=1	rs4487645	213	160	28	109	58	9	152	141	27	97	68	13	0.04	0.15
No hyperdiploidy=2	rs1052501	19	137	246	7	61	108	13	91	216	3	57	118	0.04	0.02
	rs6746082	271	117	14	125	47	4	222	90	8	122	50	6	0.81	0.89
IGH translocation =1	rs4487645	163	140	23	16	14	1	223	162	32	17	10	1	0.46	0.18
No IGH translocation=2	rs1052501	14	97	216	0	11	20	18	140	259	0	13	15	0.26	0.37
	rs6746082	228	89	10	16	14	1	288	115	14	22	6	0	0.78	4.69
T4-14 Translocation=1	rs4487645	38	38	7	21	19	4	353	271	48	158	92	16	0.08	0.30
No T4-14 Translocation=2	rs1052501	3	28	52	2	13	29	29	211	433	8	90	168	0.96	0.04
	rs6746082	53	28	2	32	9	3	471	181	21	187	72	7	0.41	0.11
T11-14 Translocation=1	rs4487645	52	48	8	42	29	4	338	260	47	160	93	17	0.48	0.03
No T11-14 Translocation=2	rs1052501	4	40	64	2	18	55	29	200	417	8	95	167	0.77	3.21
	rs6746082	82	23	3	51	23	1	441	185	20	192	69	9	0.33	1.12

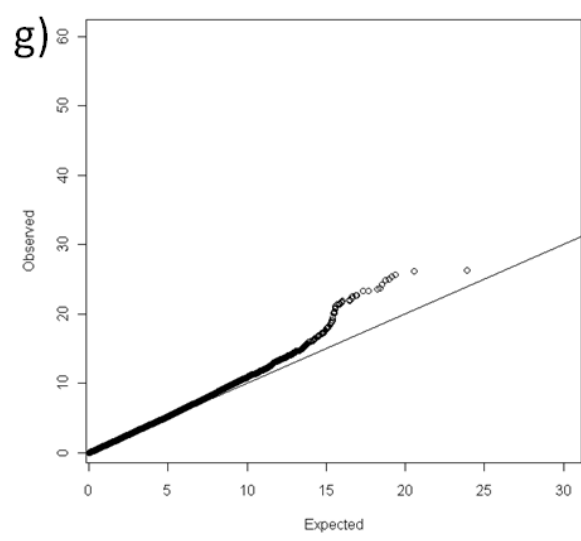
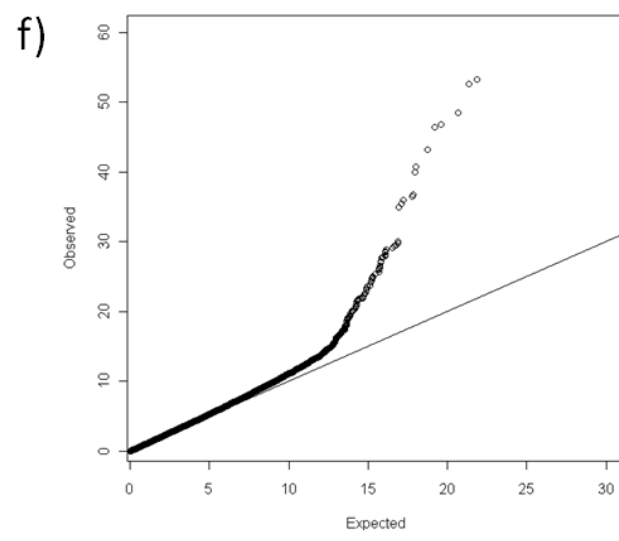
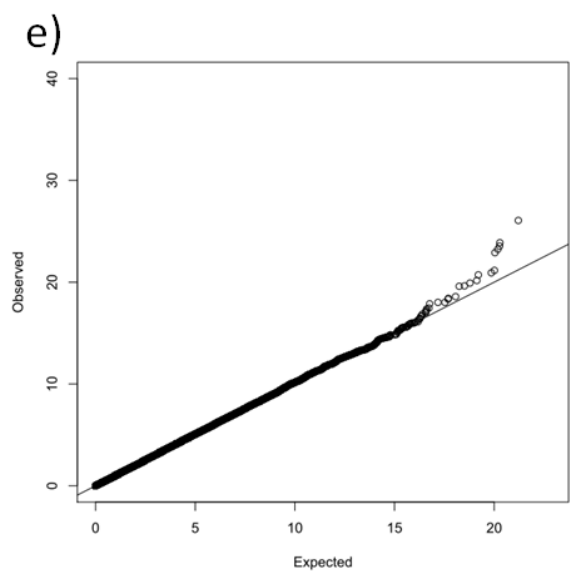
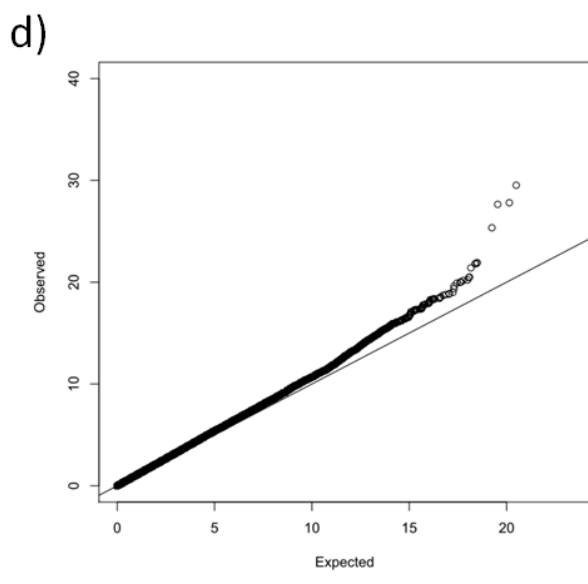
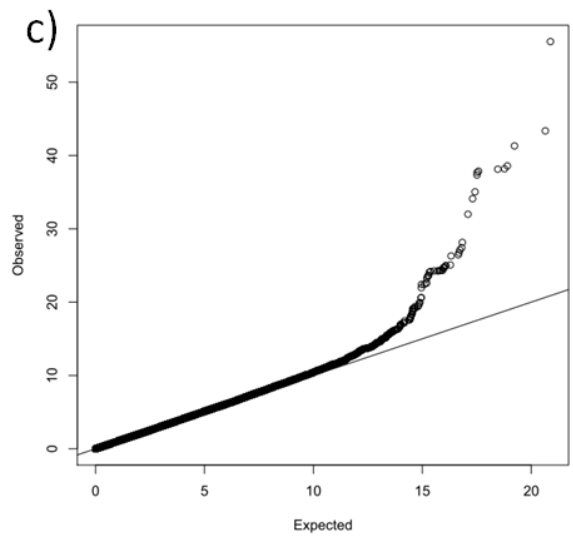
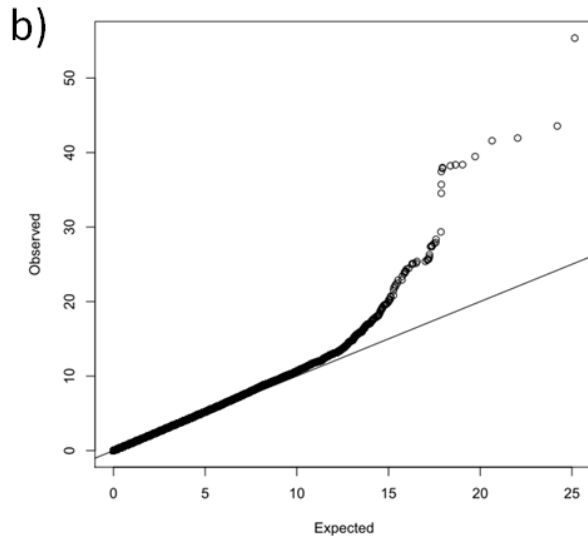


Supplementary Figure 1: GWAS data quality control. Details are provided of samples and SNPs used in UK-GWAS and German-GWAS and UK replication series.

Supplementary Figure 2: Identification of individuals in the GWAS of non-European ancestry in cases and controls. The first two principal components of the analysis were plotted for the UK-GWAS (a) and German-GWAS (b). HapMap CEU individuals are plotted in blue; CHB+JPT individuals are plotted in green; YRI individuals are plotted in red; GWAS cases are plotted in black and controls are plotted in purple. Cases that were removed are shown as triangles.







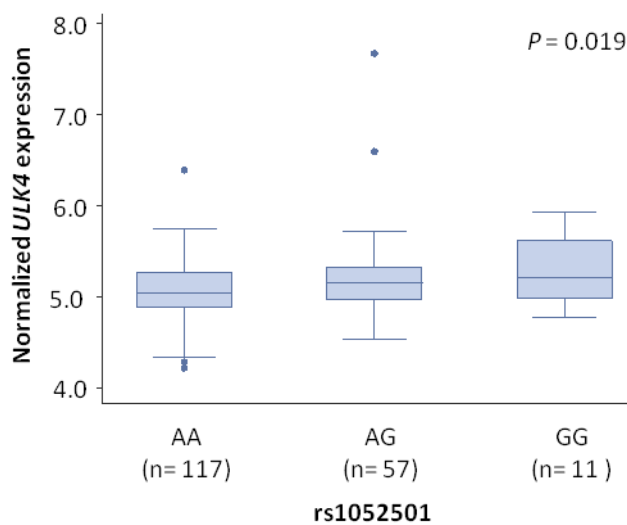
Supplementary Figure 3: Q-Q plots of chi-square values for association between (a) 58C and UKBS controls ($\lambda=1.019$). Observed and expected chi-square values for association between (b) UK-GWAS ($\lambda=1.033$); (c) UK-GWAS corrected for population stratification (using the first ten principle components calculated using EIGENSTRAT) ($\lambda=1.01$); (d) German GWAS ($\lambda=1.059$); (e) German-GWAS, EIGENSTRAT corrected ($\lambda=1.005$); (f) meta-analysis ($\lambda=1.048$); (g) meta-analysis after exclusion of SNPs mapping to regions of LD at the 2p23.3, 3p22.1 and 7p15.3 associations ($\lambda=1.047$). The black line represents the null hypothesis of no true association.

Supplementary Figure 4: Relationship between rs6746082 (2p23.3) and *DTNB* expression, rs1052501 (3p22.1) and *ULK4* expression, and between rs4487645 (7p15.3) genotype and *CDCA7L*, *DNAH11* expression in plasma cells and lymphoblastoid cell lines. Differences in the distribution of expression by SNP genotype were compared using a Wilcoxon-type test for trend⁴⁰. Box plots shown only for associations at $P < 0.05$. NA= not available.

Variant	Gene	Plasma cell expression <i>P</i> -value	LCL expression <i>P</i> -value
rs4487645 (7p15.3)	<i>DNAH11</i>	0.376	0.382
	<i>CDCA7L</i>	0.091	N/A
rs1052501 (3p22.1)	<i>ULK4</i>	0.019	N/A
	<i>TRAK1</i>	0.160	N/A
rs6746082 (2p23.3)	<i>DTNB</i>	0.822	0.001

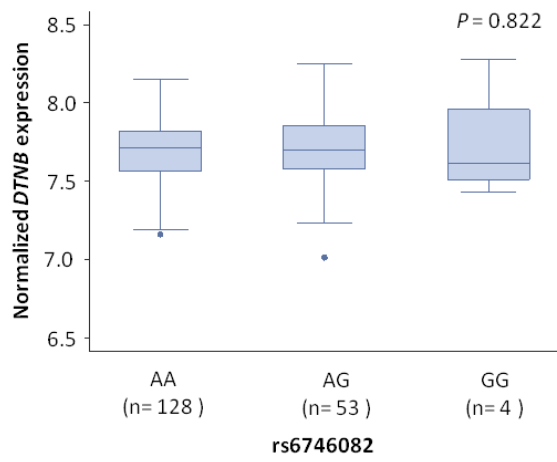
rs1052501 (3p22.1) and *ULK4*

Plasma cell expression



rs6746082 (2p23.3) and *DTNB*

Plasma cell expression



LCL expression

