

SUPPLEMENTAL DATA

RESEARCH ARTICLE

Zhang et al: Genome-wide pleiotropic analysis

Genomic correlation, shared loci, and causal link between obesity and diabetic microvascular complications: a genome-wide pleiotropic analysis

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Table S1. Details of GWAS summary data sources

Trait	Consortium	sample size	Ancestry	Web source	Pubmed ID	Year
BMI	UK Biobank and the GIANT consortium	806834	European	https://zenodo.org/record/1251813#.X37_UZMzbLs	30239722	2019
WHR	UK Biobank and the GIANT consortium	697734	European	https://zenodo.org/record/1251813#.X37_UZMzbLs	30239722	
WHRadjBMI	UK Biobank and the GIANT consortium	694649	European	https://zenodo.org/record/1251813#.X37_UZMzbLs	30239722	
LDL-C	Global Lipids Genetics Consortium	1320016	European	http://csg.sph.umich.edu/willer/public/glgc-lipids2021/	34887591	2021
HDL-C	Global Lipids Genetics Consortium	1320016	European	http://csg.sph.umich.edu/willer/public/glgc-lipids2021/	34887591	
TC	Global Lipids Genetics Consortium	1320016	European	http://csg.sph.umich.edu/willer/public/glgc-lipids2021/	34887591	
TG	Global Lipids Genetics Consortium	1320016	European	http://csg.sph.umich.edu/willer/public/glgc-lipids2021/	34887591	
DKD	The FinnGen study	4,111 cases/308,539 controls	European	https://r9.finnngen.fi/	36653562	2023
DR	The FinnGen study	10,413 cases/308,633 controls	European	https://r9.finnngen.fi/	36653562	2023

Abbreviations: BMI, Body Mass Index; WHR, waist-to-hip ratio; WHRadjBMI, waist-to-hip ratio adjusted for body mass index; LDL-C, low-density lipoproteins cholesterol; HDL-C, high-density lipoprotein cholesterol; TC, total cholesterol; TG, triglycerides; DKD, Diabetic kidney disease; DR, diabetic retinopathy

Table S2. Genetic correlation analysis conducted by LDSC

Trait1	Trait2	rg	se	z	p	h2_obs	h2_obs_se	h2_int	h2_int_se	gcov_int	gcov_int_se
DN	BMI	0.3601	0.0487	7.3919	1.45E-13	0.2045	0.0067	1.0577	0.0238	-0.0029	0.0075
DN	WHR	0.3327	0.0425	7.8266	5.01E-15	0.138	0.0051	1.1012	0.027	0.0151	0.006
DN	WHRadjBMI	0.1326	0.0368	3.6067	3.10E-04	0.1191	0.0069	1.1453	0.038	0.0193	0.0059
DN	TC	0.052	0.0403	1.2904	1.97E-01	0.0862	0.0089	1.2699	0.1183	-0.0125	0.0074
DN	HDL-C	0.2921	0.0475	6.1558	7.47E-10	0.1048	0.0078	1.416	0.1613	0.0177	0.0074
DN	LDL-C	0.0514	0.0453	1.1338	2.57E-01	0.0585	0.0066	1.2383	0.0782	-0.0142	0.0069
DN	TG	-0.2671	0.0464	-5.7601	8.41E-09	0.0925	0.0089	1.1989	0.1022	-0.0211	0.0068
DKD	BMI	0.4715	0.0447	10.5568	4.73E-26	0.2045	0.0067	1.0576	0.0238	0.0102	0.0076
DKD	WHR	0.4712	0.0488	9.6613	4.40E-22	0.1381	0.0051	1.1011	0.027	0.0109	0.0077
DKD	WHRadjBMI	0.2197	0.0437	5.0238	5.07E-07	0.1191	0.0069	1.1453	0.0378	0.0088	0.0082
DKD	TC	-0.0144	0.0378	-0.3805	7.04E-01	0.0862	0.0089	1.2696	0.1183	-0.0114	0.0074
DKD	TG	-0.418	0.0519	-8.0533	8.06E-16	0.0925	0.0089	1.199	0.1022	-0.0105	0.0083
DKD	HDL-C	0.4259	0.0473	9.0044	2.17E-19	0.1048	0.0078	1.4163	0.1613	0.0044	0.0089
DKD	LDL-C	-0.0462	0.0447	-1.0347	3.01E-01	0.0585	0.0066	1.2381	0.0783	-0.0065	0.0069
DR	BMI	0.3792	0.0348	10.8903	1.28E-27	0.2045	0.0067	1.0574	0.0238	0.0095	0.008
DR	WHR	0.3999	0.0347	11.5374	8.54E-31	0.1381	0.0051	1.101	0.0269	0.0115	0.0072
DR	WHRadjBMI	0.1979	0.0321	6.1726	6.72E-10	0.1191	0.0069	1.1454	0.0378	0.0108	0.0067
DR	TC	-0.0195	0.0324	-0.6015	5.47E-01	0.0862	0.0089	1.2696	0.1183	-0.0068	0.0083
DR	TG	-0.3069	0.0402	-7.6395	2.18E-14	0.0925	0.0089	1.1989	0.1022	-0.0289	0.0088
DR	HDL-C	0.321	0.0412	7.8001	6.19E-15	0.1048	0.0078	1.4163	0.1613	0.024	0.0093
DR	LDL-C	-0.0351	0.0382	-0.9201	3.58E-01	0.0585	0.0066	1.238	0.0783	-0.0082	0.0072

rg represents genetic correlation coefficients; h2_int represents intercept of regression.

Table S3. Significant results ($P < 0.05/2495$) of regional genetic correlations between obesity-related traits and diabetic microvascular complications.

No.Loci	CHR	START	STOP	phenotype1	phenotype2	P	R^2 (95%CI)	R (95%CI)
100	1	113418038	114664387	BMI	DKD	1.22E-05	1(0.24723-1)	-1(-1--0.49722)
963	6	32454578	32539567	BMI	DKD	7.76E-06	0.431187(0.17941-0.74684)	0.656648(0.42357-0.8642)
645	4	43962562	45186767	BMI	DR	3.56E-07	0.907326(0.31667-1)	0.952536(0.56273-1)
963	6	32454578	32539567	BMI	DR	1.49E-07	0.516735(0.26056-0.81458)	0.718843(0.51045-0.90254)
2286	18	57635822	58527236	BMI	DR	5.16E-07	0.299193(0.11382-0.75707)	0.546985(0.33737-0.8701)
434	3	11997659	12859209	HDL-C	DKD	1.84E-09	0.118859(0.05703-0.2038)	0.344759(0.23881-0.45144)
955	6	29833844	30070717	HDL-C	DKD	1.40E-05	0.102427(0.03308-0.21236)	0.320042(0.18188-0.46082)
956	6	30070718	30715006	HDL-C	DKD	1.37E-05	0.0472515(0.01499-0.09787)	0.217374(0.12244-0.31285)
958	6	31106494	31250556	HDL-C	DKD	1.86E-11	0.171471(0.0897-0.27615)	0.414091(0.29951-0.5255)
959	6	31250557	31320268	HDL-C	DKD	2.66E-09	0.122904(0.05806-0.21244)	0.350577(0.24095-0.46091)
965	6	32586785	32629239	HDL-C	DKD	2.40E-07	0.0893929(0.03514-0.17092)	-0.298986(-0.41342--0.18747)
970	6	33864263	34979270	HDL-C	DKD	1.06E-05	0.0245663(0.008-0.05115)	-0.156736(-0.22616--0.08946)
1580	10	102509299	104206837	HDL-C	DKD	4.63E-06	0.344465(0.1213-0.7796)	0.586912(0.34828-0.88295)
1723	11	117295642	118901213	HDL-C	DKD	1.88E-05	0.461253(0.145-1)	0.679156(0.38079-1)
2339	19	33028100	33785835	HDL-C	DKD	1.75E-10	0.416196(0.22018-0.70697)	0.645132(0.46923-0.84082)
266	2	57952946	59251996	HDL-C	DR	3.29E-09	0.798344(0.37692-1)	0.893501(0.61394-1)
479	3	66702085	67454740	HDL-C	DR	8.25E-06	1(0.27278-1)	1(0.52228-1)
958	6	31106494	31250556	HDL-C	DR	2.83E-13	0.155673(0.08701-0.24413)	0.394554(0.29498-0.49409)
959	6	31250557	31320268	HDL-C	DR	5.07E-09	0.106597(0.04858-0.18509)	0.326492(0.2204-0.43022)
965	6	32586785	32629239	HDL-C	DR	1.20E-06	0.071243(0.02493-0.14219)	-0.266914(-0.37708--0.15789)
1841	12	111592382	113947983	HDL-C	DR	1.09E-05	0.920431(0.23449-1)	0.959391(0.48424-1)
1851	12	123396635	124843768	HDL-C	DR	1.86E-05	0.440044(0.11942-1)	0.663358(0.34557-1)
96	1	109271450	110224230	LDL-C	DKD	3.90E-09	0.0500953(0.02256-0.08821)	0.22382(0.15018-0.297)
958	6	31106494	31250556	LDL-C	DKD	1.16E-17	0.262594(0.16551-0.37622)	0.512439(0.40683-0.61337)
959	6	31250557	31320268	LDL-C	DKD	1.76E-12	0.167632(0.0915-0.26346)	0.409429(0.3025-0.51328)

960	6	31320269	31427209	LDL-C	DKD	3.92E-10	0.136852(0.06908-0.22635)	0.369935(0.26283-0.47576)
962	6	32208902	32454577	LDL-C	DKD	7.08E-11	0.068706(0.03415-0.11404)	0.262118(0.18481-0.3377)
964	6	32539568	32586784	LDL-C	DKD	9.02E-08	0.0461196(0.01838-0.08497)	0.214755(0.13557-0.2915)
965	6	32586785	32629239	LDL-C	DKD	1.13E-06	0.0490454(0.01847-0.0948)	0.221462(0.13591-0.30789)
966	6	32629240	32682213	LDL-C	DKD	1.50E-17	0.153226(0.09429-0.2273)	0.391441(0.30706-0.47676)
968	6	32897999	33194975	LDL-C	DKD	8.65E-06	0.0554241(0.01777-0.11456)	0.235423(0.13332-0.33847)
1694	11	87676871	88359287	LDL-C	DKD	2.38E-06	0.29283(0.10514-0.5891)	0.541138(0.32425-0.76753)
958	6	31106494	31250556	LDL-C	DR	2.59E-16	0.175823(0.10734-0.25978)	0.419312(0.32762-0.50969)
959	6	31250557	31320268	LDL-C	DR	3.24E-06	0.0671147(0.02212-0.1338)	0.259065(0.14872-0.36579)
960	6	31320269	31427209	LDL-C	DR	8.30E-10	0.100533(0.04809-0.17258)	0.317069(0.21929-0.41543)
962	6	32208902	32454577	LDL-C	DR	3.47E-10	0.0536866(0.02559-0.09047)	0.231704(0.15996-0.30079)
964	6	32539568	32586784	LDL-C	DR	5.14E-07	0.0393175(0.01483-0.07532)	0.198286(0.12177-0.27444)
965	6	32586785	32629239	LDL-C	DR	6.72E-15	0.0987248(0.05647-0.15353)	0.314205(0.23764-0.39184)
966	6	32629240	32682213	LDL-C	DR	4.92E-19	0.152248(0.09643-0.21914)	0.390189(0.31053-0.46813)
1521	10	32457294	33655458	LDL-C	DR	9.63E-07	1(0.29702-1)	-1(-1--0.545)
2327	19	18504868	19749166	LDL-C	DR	2.22E-07	0.730806(0.23183-1)	0.854872(0.48149-1)
96	1	109271450	110224230	TC	DKD	4.42E-09	0.0528366(0.02435-0.09372)	0.229862(0.15603-0.30614)
958	6	31106494	31250556	TC	DKD	2.88E-26	0.276493(0.19513-0.37407)	0.525826(0.44173-0.61161)
959	6	31250557	31320268	TC	DKD	4.71E-18	0.167378(0.10674-0.24376)	0.409119(0.3267-0.49372)
960	6	31320269	31427209	TC	DKD	5.01E-15	0.14579(0.08576-0.22099)	0.381825(0.29285-0.4701)
962	6	32208902	32454577	TC	DKD	9.84E-13	0.0672582(0.03578-0.10785)	0.259342(0.18915-0.3284)
964	6	32539568	32586784	TC	DKD	1.51E-05	0.0247914(0.00762-0.05163)	0.157453(0.08731-0.22721)
966	6	32629240	32682213	TC	DKD	6.73E-22	0.141157(0.09362-0.19947)	0.375709(0.30597-0.44662)
958	6	31106494	31250556	TC	DR	4.71E-22	0.167751(0.11006-0.23456)	0.409574(0.33175-0.48431)
959	6	31250557	31320268	TC	DR	2.40E-08	0.0595477(0.02491-0.10762)	0.244024(0.15783-0.32805)
960	6	31320269	31427209	TC	DR	9.16E-13	0.0902179(0.0493-0.14308)	0.300363(0.22203-0.37825)
962	6	32208902	32454577	TC	DR	6.00E-06	0.0206745(0.00684-0.04201)	0.143786(0.08272-0.20496)
965	6	32586785	32629239	TC	DR	2.21E-09	0.0385728(0.01783-0.06698)	0.1964(0.13353-0.2588)
966	6	32629240	32682213	TC	DR	5.76E-23	0.131993(0.0871-0.18541)	0.363308(0.29513-0.43059)

1841	12	111592382	113947983	TC	DR	4.23E-06	1(0.25923-1)	1(0.50915-1)
1849	12	120567741	121817509	TC	DR	1.55E-05	0.404448(0.12503-1)	-0.635962(-1--0.35359)
2327	19	18504868	19749166	TC	DR	1.05E-08	0.956502(0.31276-1)	0.978009(0.55925-1)
171	1	220978152	221856864	TG	DKD	1.72E-05	0.296924(0.09489-0.70742)	-0.544907(-0.84108--0.30805)
434	3	11997659	12859209	TG	DKD	5.83E-11	0.260745(0.13632-0.43733)	-0.510632(-0.66131--0.36922)
493	3	82532743	83529394	TG	DKD	2.92E-06	0.124276(0.0448-0.24153)	-0.352528(-0.49146--0.21166)
966	6	32629240	32682213	TG	DKD	5.96E-11	0.0548612(0.02746-0.09195)	0.234225(0.16571-0.30323)
1223	7	149843000	150897818	TG	DKD	1.12E-05	1(0.18656-1)	-1(-1--0.43192)
1744	12	3871115	4967643	TG	DKD	5.54E-07	1(0.31226-1)	-1(-1--0.5588)
965	6	32586785	32629239	TG	DR	6.04E-11	0.032808(0.01607-0.05552)	0.18113(0.12676-0.23563)
966	6	32629240	32682213	TG	DR	5.48E-10	0.0416536(0.01949-0.07194)	0.204092(0.1396-0.26821)
1851	12	123396635	124843768	TG	DR	4.86E-06	0.626097(0.19396-1)	-0.791263(-1--0.44041)
734	4	149998529	151014322	WHR	DKD	5.39E-06	0.986241(0.33818-1)	-0.993096(-1--0.58153)
962	6	32208902	32454577	WHR	DR	1.26E-05	0.0972901(0.03161-0.19845)	0.311914(0.17778-0.44548)
962	6	32208902	32454577	WHRadjBMI	DR	9.70E-06	0.0619421(0.02031-0.12566)	0.248882(0.14253-0.35449)
2414	20	50653621	51533750	WHRadjBMI	DR	1.17E-05	1(0.21394-1)	1(0.46254-1)
384	2	206821200	207726594	TC	DN	1.55E-05	0.278363(0.08913-0.67095)	0.527601(0.29855-0.81911)
956	6	30070718	30715006	TC	DN	1.40E-05	0.0478972(0.01497-0.09929)	0.218854(0.12235-0.3151)
957	6	30715007	31106493	TC	DN	1.60E-06	0.0438002(0.01562-0.08497)	0.209285(0.12497-0.29149)
958	6	31106494	31250556	TC	DN	1.04E-14	0.242747(0.14475-0.36199)	0.492694(0.38046-0.60165)
959	6	31250557	31320268	TC	DN	3.90E-10	0.0797271(0.03832-0.13662)	0.28236(0.19575-0.36963)
960	6	31320269	31427209	TC	DN	2.10E-11	0.149812(0.07929-0.24011)	0.387055(0.28158-0.49001)
962	6	32208902	32454577	TC	DN	9.98E-06	0.028594(0.00926-0.05914)	0.169098(0.09623-0.24318)
966	6	32629240	32682213	TC	DN	1.49E-20	0.152558(0.0976-0.21973)	0.390586(0.31241-0.46875)
1730	11	125266685	126304240	TC	DN	2.08E-06	0.5661(0.19258-1)	-0.752396(-1--0.43884)
2327	19	18504868	19749166	TC	DN	2.48E-06	0.285037(0.09506-1)	0.533888(0.30832-1)
434	3	11997659	12859209	HDL-C	DN	1.71E-06	0.129411(0.04752-0.25833)	0.359737(0.218-0.50826)
957	6	30715007	31106493	HDL-C	DN	5.95E-07	0.0630291(0.02472-0.12086)	0.251056(0.15723-0.34764)
958	6	31106494	31250556	HDL-C	DN	9.51E-08	0.162296(0.07187-0.29139)	0.40286(0.26808-0.53981)
965	6	32586785	32629239	HDL-C	DN	6.79E-07	0.088405(0.03412-0.16983)	-0.29733(-0.4121--0.18472)

434	3	11997659	12859209	TG	DN	1.17E-05	0.120075(0.0407-0.25347)	-0.346518(-0.50346--0.20175)
822	5	55221399	55968966	TG	DN	2.75E-06	0.165587(0.05879-0.35435)	-0.406924(-0.59527--0.24246)
966	6	32629240	32682213	TG	DN	7.32E-11	0.0661991(0.03351-0.1104)	0.257292(0.18305-0.33226)
962	6	32208902	32454577	WHR	DN	6.24E-06	0.112478(0.03695-0.22853)	0.335378(0.19221-0.47805)
100	1	113418038	114664387	BMI	DN	1.22E-05	1(0.24723-1)	-1(-1--0.49722)
963	6	32454578	32539567	BMI	DN	7.76E-06	0.431187(0.17941-0.74684)	0.656648(0.42357-0.8642)
958	6	31106494	31250556	LDL-C	DN	2.59E-16	0.175823(0.10734-0.25978)	0.419312(0.32762-0.50969)
959	6	31250557	31320268	LDL-C	DN	3.24E-06	0.0671147(0.02212-0.1338)	0.259065(0.14872-0.36579)
960	6	31320269	31427209	LDL-C	DN	8.30E-10	0.100533(0.04809-0.17258)	0.317069(0.21929-0.41543)
962	6	32208902	32454577	LDL-C	DN	3.47E-10	0.0536866(0.02559-0.09047)	0.231704(0.15996-0.30079)
964	6	32539568	32586784	LDL-C	DN	5.14E-07	0.0393175(0.01483-0.07532)	0.198286(0.12177-0.27444)
965	6	32586785	32629239	LDL-C	DN	6.72E-15	0.0987248(0.05647-0.15353)	0.314205(0.23764-0.39184)
962	6	32208902	32454577	WHRadjBMI	DN	9.70E-06	0.0619421(0.02031-0.12566)	0.248882(0.14253-0.35449)

CI, confidence interval; R indicates the correlation between phenotype1 and phenotype2. R² shows the variance in phenotypes explained by their shared genetic variation.

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Table S4. 828 Pleiotropic SNPs identified by FUMA using PLACO results

triat1	triat2	Top SNPs	CHR	Pos	Locus boundary	annova
BMI	DKD	rs1937439	1	66439127	66359367-66489304	intronic
BMI	DKD	rs7550711	1	110082886	110078255-110225084	ncRNA_intronic
BMI	DKD	rs543874	1	177889480	177803163-177935050	intergenic
BMI	DKD	rs2683989	2	599547	599547-653874	intergenic
BMI	DKD	rs1172294	2	25169200	24697898-25340610	UTR3
BMI	DKD	rs12053355	2	58823071	58688907-58846689	ncRNA_intronic
BMI	DKD	rs2188151	3	50201924	50181136-50248954	intronic
BMI	DKD	rs2365389	3	61236462	61146263-61277928	intronic
BMI	DKD	rs7645921	3	131761781	131647794-131827591	intronic
BMI	DKD	rs16849194	3	170669048	170627909-170744815	intergenic
BMI	DKD	rs7647305	3	185834290	185821409-185847441	intergenic
BMI	DKD	rs10938397	4	45182527	45165650-45187622	intergenic
BMI	DKD	rs366334	4	112764190	112597321-112766132	ncRNA_intronic
BMI	DKD	rs6453133	5	74692776	74356571-75038901	intronic
BMI	DKD	rs7733438	5	87986284	87936379-88010829	ncRNA_intronic
BMI	DKD	rs13195401	6	26463574	25684606-27459923	exonic
BMI	DKD	rs6939576	6	28669315	28526655-29612325	intergenic
BMI	DKD	rs9394220	6	34416388	33188223-35238183	intergenic
BMI	DKD	rs17681421	6	40357094	40346055-40394475	intergenic
BMI	DKD	rs4615388	6	51147020	50787575-51169536	intergenic
BMI	DKD	rs28796334	7	76695516	76552745-76731008	ncRNA_intronic
BMI	DKD	rs2299383	7	103418846	103416295-103449555	Intronic
BMI	DKD	rs59234174	9	16730258	16712247-16744269	Intronic
BMI	DKD	rs1412235	9	28410996	28410683-28448545	Intronic
BMI	DKD	rs6479009	9	103078464	102741520-103140283	Intronic
BMI	DKD	rs7903146	10	114758349	114722134-114818754	Intronic

BMI	DKD	rs11030121	11	27736207	27646247-27736207	ncRNA_intronic
BMI	DKD	rs4755726	11	43642130	43599791-43877204	NA
BMI	DKD	rs76895963	12	4384844	4384844-4384844	ncRNA_intronic
BMI	DKD	rs1701704	12	56412487	56368708-56508409	Intronic
BMI	DKD	rs10846912	12	122939450	122806239-123006368	Intergenic
BMI	DKD	rs17109256	14	79939993	79833494-79945162	Intronic
BMI	DKD	rs4548812	15	68060552	67680209-68140315	Intronic
BMI	DKD	rs11075985	16	53805207	53797565-53848561	Intronic
BMI	DKD	rs8072545	17	21157276	21157276-21284673	Upstream
BMI	DKD	rs1106908	17	34942595	34835526-34962843	Exonic
BMI	DKD	rs35895680	17	47060322	47055622-47207658	Intergenic
BMI	DKD	rs9891146	17	65988049	65800140-66097802	Exonic
BMI	DKD	rs1788817	18	21097460	21075441-21165409	Intronic
BMI	DKD	rs11664369	18	57739072	57721198-58017249	Intergenic
BMI	DKD	rs429358	19	45411941	45392254-45424351	Exonic
BMI	DR	rs2295080	1	11322628	11111976-11365015	Upstream
BMI	DR	rs10890133	1	75018688	75017170-75129420	Intergenic
BMI	DR	rs1230666	1	114173410	114129817-114418205	Intronic
BMI	DR	rs604388	1	177877979	177803163-177913519	Intergenic
BMI	DR	rs10188118	2	653623	599547-699392	Intergenic
BMI	DR	rs10182181	2	25150296	25075281-25451789	Intergenic
BMI	DR	rs1861410	2	58933591	58760169-58991868	ncRNA_intronic
BMI	DR	rs1801282	3	12393125	12329783-12413339	Exonic
BMI	DR	rs7651237	3	48105528	47587905-48170802	Intronic
BMI	DR	rs11710037	3	49675334	49385350-49731861	Intronic
BMI	DR	rs6549007	3	85044736	84972676-85134914	Intronic
BMI	DR	rs34811474	4	25408838	25342606-25408838	Exonic
BMI	DR	rs10938397	4	45182527	45068929-45193147	Intergenic
BMI	DR	rs1813006	4	103001649	102702364-103999909	Intergenic
BMI	DR	rs6453133	5	74692776	74562564-75038901	Intronic
BMI	DR	rs329122	5	133864599	133831478-133865452	Intronic

BMI	DR	rs11753081	6	20705590	20641336-20727570	Intronic
BMI	DR	rs148028610	6	25170291	25101162-25170291	Intergenic
BMI	DR	rs6939576	6	28669315	25684606-29607101	Intergenic
BMI	DR	rs419261	6	33554147	33188223-35386872	ncRNA_exonic
BMI	DR	rs34045288	6	40369081	40348653-40383533	Intronic
BMI	DR	rs4615388	6	51147020	50789704-51284068	Intergenic
BMI	DR	rs849135	7	28196413	28142088-28209953	Intronic
BMI	DR	rs2267812	7	74138121	74027839-74246735	ncRNA_intronic
BMI	DR	rs7794682	7	99029277	98898767-99340049	Intronic
BMI	DR	rs9640171	7	150600845	150600845-150690079	Intergenic
BMI	DR	rs2136355	9	15718989	15533394-16046489	Intronic
BMI	DR	rs10511626	9	16764989	16763227-16773921	Intronic
BMI	DR	rs10968576	9	28414339	28410683-28488365	Intronic
BMI	DR	rs6602411	10	10264200	10255003-10264200	Intergenic
BMI	DR	rs2488075	10	94490174	94341201-94495753	Intergenic
BMI	DR	rs7903146	10	114758349	114729482-114867427	Intronic
BMI	DR	rs7129483	11	2204717	2167850-2234690	Intergenic
BMI	DR	rs1557765	11	17403639	17368013-17421886	ncRNA_exonic
BMI	DR	rs11030104	11	27684517	27457128-27742447	ncRNA_intronic
BMI	DR	rs6485758	11	47530024	47391948-47943419	Intronic
BMI	DR	rs76895963	12	4384844	4384844-4384844	ncRNA_intronic
BMI	DR	rs10875982	12	50245706	50225250-50289667	Intergenic
BMI	DR	rs1701704	12	56412487	56358712-56584247	Intronic
BMI	DR	rs11065987	12	112072424	111826477-113218868	Intergenic
BMI	DR	rs10846921	12	122943376	122781897-123144293	Intergenic
BMI	DR	rs7323	13	28009031	27974829-28083905	Exonic
BMI	DR	rs731413	13	33175656	32996332-33376884	Intronic
BMI	DR	rs12429545	13	54102206	54064981-54107583	Intergenic
BMI	DR	rs12431244	13	58630651	58250322-59290020	Intergenic
BMI	DR	rs12885454	14	29736838	29680331-29777492	ncRNA_exonic
BMI	DR	rs7144011	14	79940383	79703248-79945162	Intronic

BMI	DR	rs4906263	14	103249127	103229696-104010198	Intronic
BMI	DR	rs3784692	15	67988133	67848128-68080886	Intronic
BMI	DR	rs11075985	16	53805207	53755146-53848561	Intronic
BMI	DR	rs34195470	16	69955690	69547741-69968892	Intronic
BMI	DR	rs2001651	17	21179461	21157981-21200503	Intergenic
BMI	DR	rs12150665	17	34914787	34825861-34961772	Intronic
BMI	DR	rs11655587	17	47140794	46180724-47207658	Intergenic
BMI	DR	rs1429935	18	21086216	21075441-21165409	UTR3
BMI	DR	rs7243357	18	56883319	56876228-56883866	Intergenic
BMI	DR	rs8089364	18	57858829	57721198-58090217	Intergenic
BMI	DR	rs7258722	19	18808915	18806668-18834514	Intronic
BMI	DR	rs429358	19	45411941	45386467-45424351	Exonic
BMI	DR	rs11672416	19	46206425	46178661-46214297	UTR3
BMI	DN	rs7550711	1	110082886	109582886-110582886	ncRNA_intronic
BMI	DN	rs4339825	1	177791704	177291704-178291704	Downstream
BMI	DN	rs2820315	1	201872264	201372264-202372264	Intergenic
BMI	DN	rs12463617	2	629244	129244-1129244	Intergenic
BMI	DN	rs80078501	2	25200871	24700871-25700871	Intergenic
BMI	DN	rs6545714	2	59307725	58807725-59807725	Intronic
BMI	DN	rs6722661	2	100806588	100306588-101306588	Intergenic
BMI	DN	rs4674373	2	220156474	219656474-220656474	Intergenic
BMI	DN	rs536445	3	173120103	172620103-173620103	Intronic
BMI	DN	rs4234588	3	185786406	185286406-186286406	Intergenic
BMI	DN	rs12189053	5	43239815	42739815-43739815	Intronic
BMI	DN	rs6453133	5	74692776	74192776-75192776	Intronic
BMI	DN	rs35267052	5	87949118	87449118-88449118	Exonic
BMI	DN	rs7767008	6	28630793	28130793-29130793	ncRNA_intronic
BMI	DN	rs210137	6	33542478	33042478-34042478	Upstream
BMI	DN	rs6939345	6	34736134	34236134-35236134	Intronic
BMI	DN	rs2817419	6	50812906	50312906-51312906	Intergenic
BMI	DN	rs804281	8	11611865	11111865-12111865	Intronic

BMI	DN	rs979925	8	77014100	76514100-77514100	Intronic
BMI	DN	rs13292699	9	15910044	15410044-16410044	Intergenic
BMI	DN	rs7903146	10	114758349	114258349-115258349	Intronic
BMI	DN	rs10742179	11	27650524	27150524-28150524	Intergenic
BMI	DN	rs11836282	12	50177324	49677324-50677324	Intergenic
BMI	DN	rs1701704	12	56412487	55912487-56912487	ncRNA_intronic
BMI	DN	rs12429545	13	54102206	53602206-54602206	Intronic
BMI	DN	rs7144011	14	79940383	79440383-80440383	Intergenic
BMI	DN	rs4906263	14	103249127	102749127-103749127	Intronic
BMI	DN	rs13329567	15	68104367	67604367-68604367	ncRNA_intronic
BMI	DN	rs2444217	16	4038387	3538387-4538387	Exonic
BMI	DN	rs2726036	16	28347140	27847140-28847140	Intronic
BMI	DN	rs3814883	16	29994922	29494922-30494922	Intronic
BMI	DN	rs9922708	16	53831146	53331146-54331146	ncRNA_intronic
BMI	DN	rs2306593	17	34866546	34366546-35366546	Intergenic
BMI	DN	rs1652376	18	21109466	20609466-21609466	Intronic
BMI	DN	rs6567160	18	57829135	57329135-58329135	ncRNA_intronic
BMI	DN	rs733381	22	40669648	40169648-41169648	Intergenic
HDL-C	DKD	rs58302493	1	40033905	39566766-40088043	Intronic
HDL-C	DKD	rs646776	1	109818530	109715950-109822166	Intergenic
HDL-C	DKD	rs7544953	1	110504585	110496727-110504663	Intergenic
HDL-C	DKD	rs2761470	1	178596033	178513411-178631012	Intronic
HDL-C	DKD	rs765751	1	219669226	219622596-219688634	UTR5
HDL-C	DKD	rs7543050	1	230278291	230278291-230419557	Intronic
HDL-C	DKD	rs514230	1	234858597	234842856-234876434	Intergenic
HDL-C	DKD	rs7557067	2	21208211	21056947-21413077	Intronic
HDL-C	DKD	rs355845	2	165624349	165501849-165731664	Intergenic
HDL-C	DKD	rs1515100	2	227128917	226866226-227205445	Intergenic
HDL-C	DKD	rs4135283	3	12449793	12056755-12938193	Exonic
HDL-C	DKD	rs2455818	3	15741009	15688688-15970334	UTR3
HDL-C	DKD	rs2305637	3	47045846	47045846-49277522	Intronic

HDL-C	DKD	rs2526389	3	50192826	50181136-50248954	Intergenic
HDL-C	DKD	rs73052033	3	185828465	185729753-185847441	Intronic
HDL-C	DKD	rs57400569	4	89752276	89704367-89796154	ncRNA_intronic
HDL-C	DKD	rs230489	4	103388441	103180149-103388441	Intronic
HDL-C	DKD	rs6844101	4	157737846	157613653-157814489	Intergenic
HDL-C	DKD	rs3936510	5	55860866	55854153-55868097	Downstream
HDL-C	DKD	rs13190888	6	28285985	25480328-29612325	Exonic
HDL-C	DKD	rs57493997	6	34443523	33193989-35594841	Intergenic
HDL-C	DKD	rs2104616	6	42919969	42901120-42955749	Exonic
HDL-C	DKD	rs11967262	6	43760327	43757082-43829941	Intergenic
HDL-C	DKD	rs2872819	6	161096478	161004972-161125454	Intronic
HDL-C	DKD	rs55747707	7	73037366	72854549-73058017	Intronic
HDL-C	DKD	rs576976331	7	130449165	130424893-130468015	Intronic
HDL-C	DKD	rs62492368	7	150537635	150208971-150542711	Exonic
HDL-C	DKD	rs1461729	8	9187242	9168146-9224410	Intronic
HDL-C	DKD	rs268	8	19813529	19049985-19969742	Intronic
HDL-C	DKD	rs2957467	8	106323556	106320562-106406847	Intergenic
HDL-C	DKD	rs2737217	8	116630311	116409058-116645056	Intronic
HDL-C	DKD	rs10808546	8	126495818	126447308-126525035	Intronic
HDL-C	DKD	rs79744701	8	144305667	144275144-144306970	Intronic
HDL-C	DKD	rs2254819	9	107666414	107554534-107693931	ncRNA_intronic
HDL-C	DKD	rs752059	10	45942423	45923511-46088061	Intronic
HDL-C	DKD	rs2419613	10	114028538	113991397-114049713	Intronic
HDL-C	DKD	rs3900595	11	14313329	14273677-14546481	Intronic
HDL-C	DKD	rs80164982	11	45712502	45712502-45762123	Intergenic
HDL-C	DKD	rs679470	11	49242990	47374928-50217209	Intergenic
HDL-C	DKD	rs174603	11	61626206	61441836-61640379	Downstream
HDL-C	DKD	rs2306363	11	65405600	65380124-65473798	Intergenic
HDL-C	DKD	rs10899133	11	75531695	75445338-75568683	Intergenic
HDL-C	DKD	rs10466533	11	116612128	116494264-117314931	Intronic
HDL-C	DKD	rs4937122	11	126228659	126218153-126229617	ncRNA_intronic

HDL-C	DKD	rs11171739	12	56470625	56372558-56482180	Intergenic
HDL-C	DKD	rs1985825	12	110054356	110048015-110055044	ncRNA_intronic
HDL-C	DKD	rs3184504	12	111884608	111826477-112883476	Intronic
HDL-C	DKD	rs1169312	12	121441461	121220375-121484936	ncRNA_intronic
HDL-C	DKD	rs921919	12	125265201	123318455-125387877	Intergenic
HDL-C	DKD	rs4983558	14	105277144	105267579-105277144	ncRNA_intronic
HDL-C	DKD	rs45617141	15	43623397	43580645-44947434	Intergenic
HDL-C	DKD	rs261342	15	58731153	58544644-58855748	Intergenic
HDL-C	DKD	rs11075985	16	53805207	53797908-53848561	Intronic
HDL-C	DKD	rs247616	16	56989590	55767409-57983925	Intronic
HDL-C	DKD	rs255053	16	68020492	67691668-68419298	Intergenic
HDL-C	DKD	rs72836561	17	41926126	41776943-42327850	Intronic
HDL-C	DKD	rs35895680	17	47060322	47055622-47090785	Intronic
HDL-C	DKD	rs2000813	18	47093864	46549540-47512198	Intronic
HDL-C	DKD	rs7231987	18	57739840	57730096-58013565	Intergenic
HDL-C	DKD	rs117760119	19	8432737	8423031-8627569	Intergenic
HDL-C	DKD	rs17699089	19	11343795	11311885-11348521	Intergenic
HDL-C	DKD	rs62102718	19	33891013	33854536-33900257	Intronic
HDL-C	DKD	rs429358	19	45411941	45337918-45523583	Intronic
HDL-C	DKD	rs425105	19	47208481	47176752-47276454	Intergenic
HDL-C	DKD	rs28873836	19	52314655	52304593-52342669	Intronic
HDL-C	DKD	rs384116	19	54796719	54750037-54837635	Intronic
HDL-C	DKD	rs6130609	20	43033095	42958768-43042364	Intronic
HDL-C	DKD	rs6065905	20	44537837	44235457-44658543	Intergenic
HDL-C	DKD	rs2236464	21	46898174	46854111-46916699	Intergenic
HDL-C	DKD	rs41173	22	30424863	30111302-30594803	Intergenic
HDL-C	DKD	rs2413508	22	38597174	38597174-38597174	Intronic
HDL-C	DR	rs36109400	1	27247822	27011000-27248645	Intergenic
HDL-C	DR	rs61779310	1	39942297	39551488-40088043	Intergenic
HDL-C	DR	rs12406245	1	93860625	93539383-93891839	Intronic
HDL-C	DR	rs191378	1	110476593	110470592-110495380	Intronic

HDL-C	DR	rs6679677	1	114303808	114303808-114377568	Intronic
HDL-C	DR	rs6701606	1	178526386	178495865-178626192	Intergenic
HDL-C	DR	rs2605098	1	219643649	219622596-219734998	Intergenic
HDL-C	DR	rs2296065	1	230301776	230278291-230419557	ncRNA_intronic
HDL-C	DR	rs553427	1	234852760	234842856-234876434	Intronic
HDL-C	DR	rs6544366	2	21204025	21121464-21383353	Intronic
HDL-C	DR	rs1861410	2	58933591	58933591-58975143	Intergenic
HDL-C	DR	rs2241160	2	65291546	65276049-65386462	ncRNA_exonic
HDL-C	DR	rs13033745	2	66660403	66652955-66680892	Intergenic
HDL-C	DR	rs3923113	2	165501849	165501849-165731664	Intronic
HDL-C	DR	rs1866631	2	174075761	173950658-174081238	Intronic
HDL-C	DR	rs200513066	2	219720952	219699999-219859171	Intronic
HDL-C	DR	rs2943637	2	227088577	226866226-227205445	Intronic
HDL-C	DR	rs78846589	3	12346108	12056755-12456689	Intergenic
HDL-C	DR	rs35230793	3	52897236	52838654-53132373	Intronic
HDL-C	DR	rs7653569	3	114932225	114632884-115102814	Intronic
HDL-C	DR	rs11708067	3	123065778	122936084-123131254	Exonic
HDL-C	DR	rs34894639	3	135798658	135798658-136412580	Intronic
HDL-C	DR	rs4414887	3	185506892	185488303-185933712	Intergenic
HDL-C	DR	rs10937721	4	6306763	6263996-6315029	Intronic
HDL-C	DR	rs12506688	4	26104113	26085480-26128710	ncRNA_intronic
HDL-C	DR	rs10938397	4	45182527	45164637-45187622	Intergenic
HDL-C	DR	rs342469	4	88050554	87759088-88142544	Intergenic
HDL-C	DR	rs6825776	4	89710789	89704367-89742244	ncRNA_intronic
HDL-C	DR	rs1813006	4	103001649	102702364-104291221	Intergenic
HDL-C	DR	rs467367	5	55811346	55794632-55817774	Exonic
HDL-C	DR	rs10057967	5	74997756	74952861-75038431	Intronic
HDL-C	DR	rs10946397	6	20660693	20635719-20703952	Intergenic
HDL-C	DR	rs494887	6	27850873	25684606-29614419	Intergenic
HDL-C	DR	rs55793253	6	34237941	33188223-35594841	Intronic
HDL-C	DR	rs4711750	6	43757082	43757082-43825266	Intergenic

HDL-C	DR	rs2608629	6	52625794	52613931-52738427	Exonic
HDL-C	DR	rs1936789	6	127419737	127413222-127529209	ncRNA_intronic
HDL-C	DR	rs605066	6	139829666	139828916-139844429	UTR3
HDL-C	DR	rs836498	7	6453699	6379268-6494795	ncRNA_intronic
HDL-C	DR	rs5011431	7	12268551	12233848-12285140	Intronic
HDL-C	DR	rs13247874	7	73010442	71808047-73114389	ncRNA_intronic
HDL-C	DR	rs1447059	7	130465654	130422934-130468190	Intronic
HDL-C	DR	rs9640171	7	150600845	150504090-150645534	Intergenic
HDL-C	DR	rs6601299	8	9184691	9167797-9240101	Intronic
HDL-C	DR	rs276	8	19814289	18754390-20442964	Intronic
HDL-C	DR	rs2737217	8	116630311	116464988-116645056	Intergenic
HDL-C	DR	rs13248499	8	121860589	121860589-121924603	Intergenic
HDL-C	DR	rs7828113	8	126485467	126447473-126507389	Intronic
HDL-C	DR	rs7460860	8	144304941	144299346-144305353	Intronic
HDL-C	DR	rs1574285	9	4283137	4282536-4296430	Intergenic
HDL-C	DR	rs675849	9	15298666	15287247-15304782	Intergenic
HDL-C	DR	rs2575876	9	107665739	107548375-107695848	Intergenic
HDL-C	DR	rs4540799	10	45930785	45923770-46216003	Intronic
HDL-C	DR	rs11187149	10	94485763	94202905-94490174	Exonic
HDL-C	DR	rs1408579	10	101912194	101885270-102039187	Intergenic
HDL-C	DR	rs6585139	10	113917833	113883047-113950418	Intronic
HDL-C	DR	rs6356	11	2190951	2176105-2191709	Intronic
HDL-C	DR	rs10838681	11	47275064	46447246-48221053	Intronic
HDL-C	DR	rs74237369	11	55355182	54695707-56350860	Exonic
HDL-C	DR	rs174560	11	61581764	61542006-61624181	Intergenic
HDL-C	DR	rs12799550	11	63843031	63843031-64112050	Intronic
HDL-C	DR	rs10750766	11	65473798	65380124-65564987	Intronic
HDL-C	DR	rs4365062	11	68613864	68593258-68767796	Exonic
HDL-C	DR	rs10899115	11	75471849	75449644-75569150	Intergenic
HDL-C	DR	rs12575636	11	95311260	95298828-95320808	Intergenic
HDL-C	DR	rs186808413	11	117042408	116399521-117220429	Intronic

HDL-C	DR	rs73047887	12	6736843	6736843-6739497	Downstream
HDL-C	DR	rs1373570	12	20461604	20461604-20473758	ncRNA_intronic
HDL-C	DR	rs11171739	12	56470625	56368078-56584247	Intronic
HDL-C	DR	rs11172147	12	57696677	57645789-57844049	Intergenic
HDL-C	DR	rs12321904	12	109989228	109858264-110042348	Downstream
HDL-C	DR	rs3184504	12	111884608	111662984-113218868	Intergenic
HDL-C	DR	rs7139079	12	121415293	121187557-121478370	Intronic
HDL-C	DR	rs838879	12	125261441	123757504-125340122	Intergenic
HDL-C	DR	rs8005994	14	29744532	29718644-29777492	Intergenic
HDL-C	DR	rs7144011	14	79940383	79833494-79945162	Exonic
HDL-C	DR	rs941923	14	100813077	100792126-100845457	Intronic
HDL-C	DR	rs7145882	14	103255461	103230005-103387971	Intronic
HDL-C	DR	rs151249695	15	38909425	38909425-38909425	Intergenic
HDL-C	DR	rs2414577	15	58680638	57842296-59794352	Intergenic
HDL-C	DR	rs11075985	16	53805207	53797908-53848561	Intergenic
HDL-C	DR	rs173539	16	56988044	56325386-58042711	Intronic
HDL-C	DR	rs255056	16	68016185	66473733-69443151	Intergenic
HDL-C	DR	rs7193307	16	81526302	81516383-81549708	Intronic
HDL-C	DR	rs8069451	17	37504933	37387413-38122708	Intronic
HDL-C	DR	rs202221154	17	41914714	41144158-42340108	Intronic
HDL-C	DR	rs35895680	17	47060322	46835629-47145848	Intronic
HDL-C	DR	rs112001035	17	66823805	66823805-66879927	Intergenic
HDL-C	DR	rs1652343	18	21131929	21075441-21165409	Intronic
HDL-C	DR	rs77960347	18	47109955	46363982-48215025	Intergenic
HDL-C	DR	rs8089364	18	57858829	57721198-58017249	ncRNA_intronic
HDL-C	DR	rs117760119	19	8432737	7962429-8621380	Intergenic
HDL-C	DR	rs737338	19	11347657	11262969-11350488	Intergenic
HDL-C	DR	rs4805881	19	33896432	33887405-33918642	Intergenic
HDL-C	DR	rs429358	19	45411941	45324138-45623467	Intergenic
HDL-C	DR	rs6509231	19	46158293	46148386-46214297	Intronic
HDL-C	DR	rs367070	19	54800500	54782919-54837635	Intergenic

HDL-C	DR	rs6088620	20	33412022	32514061-33795623	UTR3
HDL-C	DR	rs1800961	20	43042364	43030435-43042364	Intronic
HDL-C	DR	rs6073958	20	44551855	44380052-44661945	Intergenic
HDL-C	DR	rs235343	21	46249752	46220339-46312383	Intronic
HDL-C	DR	rs9976834	21	46897214	46854111-46916699	Intronic
HDL-C	DR	rs861857	22	21982340	21926456-21984205	Intronic
HDL-C	DN	rs141752713	1	39566766	39066766-40066766	Intergenic
HDL-C	DN	rs12752223	1	93837133	93337133-94337133	ncRNA_intronic
HDL-C	DN	rs7528419	1	109817192	109317192-110317192	Intergenic
HDL-C	DN	rs78132593	1	150868102	150368102-151368102	Intronic
HDL-C	DN	rs6693579	1	230282707	229782707-230782707	Intergenic
HDL-C	DN	rs693	2	21232195	20732195-21732195	Upstream
HDL-C	DN	rs2723063	2	65280185	64780185-65780185	Intronic
HDL-C	DN	rs1047891	2	211540507	211040507-212040507	Intronic
HDL-C	DN	rs2972144	2	227101411	226601411-227601411	Intronic
HDL-C	DN	rs12489347	3	12443877	11943877-12943877	UTR5
HDL-C	DN	rs1317571	3	49910657	49410657-50410657	Intergenic
HDL-C	DN	rs61789601	3	135954979	135454979-136454979	UTR3
HDL-C	DN	rs9844271	3	185761846	185261846-186261846	ncRNA_intronic
HDL-C	DN	rs151422	4	103132116	102632116-103632116	Intronic
HDL-C	DN	rs7694229	4	157638348	157138348-158138348	Intronic
HDL-C	DN	rs3936510	5	55860866	55360866-56360866	Upstream
HDL-C	DN	rs9942416	5	75037295	74537295-75537295	Intronic
HDL-C	DN	rs1465573	5	157985730	157485730-158485730	Intronic
HDL-C	DN	rs67381177	6	28411941	27911941-28911941	Intronic
HDL-C	DN	rs3828783	6	33767727	33267727-34267727	Intergenic
HDL-C	DN	rs3736896	6	34735883	34235883-35235883	Exonic
HDL-C	DN	rs77009508	6	161004972	160504972-161504972	Intronic
HDL-C	DN	rs9374	7	6442371	5942371-6942371	Intronic
HDL-C	DN	rs55747707	7	73037366	72537366-73537366	Intergenic
HDL-C	DN	rs2126259	8	9185146	8685146-9685146	Intergenic

HDL-C	DN	rs115849089	8	19912370	19412370-20412370	Intronic
HDL-C	DN	rs1217101	8	64624727	64124727-65124727	Exonic
HDL-C	DN	rs7012216	8	116600785	116100785-117100785	Intronic
HDL-C	DN	rs2980888	8	126507308	126007308-127007308	Intronic
HDL-C	DN	rs112271883	8	144297646	143797646-144797646	Upstream
HDL-C	DN	rs1215112	9	15303583	14803583-15803583	Exonic
HDL-C	DN	rs73664374	9	107662305	107162305-108162305	Intergenic
HDL-C	DN	rs2792743	10	113903510	113403510-114403510	Intronic
HDL-C	DN	rs12802296	11	2963612	2463612-3463612	Intronic
HDL-C	DN	rs3816725	11	47305669	46805669-47805669	Intronic
HDL-C	DN	rs99780	11	61596633	61096633-62096633	Intronic
HDL-C	DN	rs10466533	11	116612128	116112128-117112128	ncRNA_intronic
HDL-C	DN	rs10790515	11	122504346	122004346-123004346	Downstream
HDL-C	DN	rs76970536	11	126250680	125750680-126750680	Intergenic
HDL-C	DN	rs73047887	12	6736843	6236843-7236843	Intronic
HDL-C	DN	rs1081975	12	56393337	55893337-56893337	Intergenic
HDL-C	DN	rs540730	12	57807114	57307114-58307114	Exonic
HDL-C	DN	rs10774625	12	111910219	111410219-112410219	ncRNA_intronic
HDL-C	DN	rs7313915	12	123396799	122896799-123896799	Intronic
HDL-C	DN	rs2706268	12	124305573	123805573-124805573	ncRNA_intronic
HDL-C	DN	rs865716	12	125290856	124790856-125790856	Intergenic
HDL-C	DN	rs79589176	14	103244289	102744289-103744289	Intergenic
HDL-C	DN	rs2696089	15	44526684	44026684-45026684	Intergenic
HDL-C	DN	rs1077834	15	58723479	58223479-59223479	Intronic
HDL-C	DN	rs62033413	16	53830055	53330055-54330055	Intergenic
HDL-C	DN	rs12446515	16	56987015	56487015-57487015	Intronic
HDL-C	DN	rs76495028	16	68177036	67677036-68677036	Intergenic
HDL-C	DN	rs2966094	16	81538637	81038637-82038637	Intergenic
HDL-C	DN	rs4795393	17	37893484	37393484-38393484	Intronic
HDL-C	DN	rs72836561	17	41926126	41426126-42426126	Intergenic
HDL-C	DN	rs4939881	18	47161733	46661733-47661733	Intergenic

HDL-C	DN	rs11664212	18	57739179	57239179-58239179	Intergenic
HDL-C	DN	rs57192995	19	8439538	7939538-8939538	Intronic
HDL-C	DN	rs3745683	19	11348521	10848521-11848521	Intronic
HDL-C	DN	rs429358	19	45411941	44911941-45911941	Intergenic
HDL-C	DN	rs28873836	19	52314655	51814655-52814655	Intergenic
HDL-C	DN	rs1008420	19	54831977	54331977-55331977	UTR5
HDL-C	DN	rs6120705	20	33313740	32813740-33813740	Exonic
HDL-C	DN	rs77617917	20	44563217	44063217-45063217	Intronic
HDL-C	DN	rs2236464	21	46898174	46398174-47398174	Intergenic
HDL-C	DN	rs11089637	22	21979096	21479096-22479096	ncRNA_intronic
TG	DKD	rs58302493	1	40033905	39566766-40088043	Intergenic
TG	DKD	rs213494	1	54877103	54867174-54890956	Intergenic
TG	DKD	rs624700	1	62900812	62900811-63431093	ncRNA_exonic
TG	DKD	rs6679677	1	114303808	114173410-114377568	Intergenic
TG	DKD	rs765751	1	219669226	219622596-219790137	Intergenic
TG	DKD	rs7543050	1	230278291	230278291-230326412	Intronic
TG	DKD	rs907868	2	20371167	20354039-20393183	Intronic
TG	DKD	rs7557067	2	21208211	21056947-21435616	Intergenic
TG	DKD	rs1260326	2	27730940	26961477-28662887	Intronic
TG	DKD	rs2241844	2	111879364	111863438-111941995	Intergenic
TG	DKD	rs355900	2	165638070	165501849-165793561	Intergenic
TG	DKD	rs1515100	2	227128917	226840831-227199263	Intronic
TG	DKD	rs2249407	3	12494794	12026709-12500065	UTR3
TG	DKD	rs111703587	3	172264728	172237859-172269539	ncRNA_exonic
TG	DKD	rs13108218	4	3443931	3438643-3477961	Intergenic
TG	DKD	rs6448432	4	26098810	26085480-26128710	Intergenic
TG	DKD	rs236681	4	87988508	87930760-88145629	Intronic
TG	DKD	rs6844101	4	157737846	157613653-157814489	Upstream
TG	DKD	rs3936510	5	55860866	55854153-55868097	Intronic
TG	DKD	rs10475857	5	156377226	156111450-156503515	UTR5
TG	DKD	rs7703225	5	176530644	176525029-176532513	Intronic

TG	DKD	rs7766070	6	20686573	20652717-20703952	Intronic
TG	DKD	rs3131856	6	29607101	25684606-29612325	ncRNA_intronic
TG	DKD	rs430655	6	33557225	33193989-33607373	Intergenic
TG	DKD	rs185658283	6	34403275	34223098-34403275	Intergenic
TG	DKD	rs11967262	6	43760327	43757082-43829941	Intergenic
TG	DKD	rs9398804	6	126703390	126657472-127080700	UTR3
TG	DKD	rs2430189	6	139825880	139824992-139826722	ncRNA_intronic
TG	DKD	rs2661843	6	160787446	160698177-160976620	Intronic
TG	DKD	rs149840664	7	25969812	25969812-26396198	Intronic
TG	DKD	rs1045776	7	44253385	44223292-44267538	ncRNA_intronic
TG	DKD	rs7798357	7	73032265	71687784-73128525	Intergenic
TG	DKD	rs576976331	7	130449165	130424893-130468015	Intronic
TG	DKD	rs62492368	7	150537635	150208971-150542711	Intronic
TG	DKD	rs35583283	8	18254509	18239697-18291590	Intronic
TG	DKD	rs77069344	8	19821782	19049985-19969742	Intronic
TG	DKD	rs6471717	8	59377357	59311697-59415339	Intronic
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TG	DKD	rs72778450	10	5335833	5245196-5356763	Intronic
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TG	DKD	rs2277205	10	114206683	114111660-114206683	Intronic
TG	DKD	rs7903146	10	114758349	114729482-114817009	Intronic
TG	DKD	rs7110099	11	2176105	2167850-2184848	Intronic
TG	DKD	rs174603	11	61626206	61410345-61641542	Intronic
TG	DKD	rs2306363	11	65405600	65380124-65473798	Intergenic
TG	DKD	rs4633480	11	68613367	68593258-68767796	Intronic
TG	DKD	rs964184	11	116648917	116329685-117665504	Intronic
TG	DKD	rs76895963	12	4384844	4328521-4384844	Intronic
TG	DKD	rs56165099	12	21357731	21320917-21415496	Intergenic
TG	DKD	rs10773051	12	124510391	124261942-124627461	Intronic
TG	DKD	rs2298058	13	95248566	95222890-95258944	Exonic

TG	DKD	rs45617141	15	43623397	42965758-44947434	Intronic
TG	DKD	rs515081	15	58716257	58671721-58731567	Intergenic
TG	DKD	rs11075985	16	53805207	53797908-53848561	Intergenic
TG	DKD	rs247616	16	56989590	56985514-57001274	Intronic
TG	DKD	rs72836561	17	41926126	41776943-42327850	Intergenic
TG	DKD	rs2645467	17	57854783	57796677-58046246	Intergenic
TG	DKD	rs59956089	17	65960854	65800140-66098979	Intronic
TG	DKD	rs303754	18	21076764	21075441-21165409	Intronic
TG	DKD	rs7231987	18	57739840	57730096-57913434	Intronic
TG	DKD	rs112630404	19	7218635	7184721-7218922	Intronic
TG	DKD	rs116843064	19	8429323	8429323-8627569	Intergenic
TG	DKD	rs739846	19	19419071	19083483-20139234	Intergenic
TG	DKD	rs62102718	19	33891013	33887405-33900257	Intronic
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TG	DKD	rs74698119	20	39197335	39197335-39197335	ncRNA_intronic
TG	DKD	rs6065905	20	44537837	44235457-44658543	Intronic
TG	DKD	rs695399	22	29969861	29889324-30082569	UTR5
TG	DKD	rs9627428	22	46765823	46615376-46809802	Intronic
TG	DR	rs61779331	1	39970928	39562627-40088043	Intronic
TG	DR	rs1168107	1	63161173	62900811-63375116	Intergenic
TG	DR	rs6679677	1	114303808	114173410-114377568	Intergenic
TG	DR	rs2605098	1	219643649	219622072-219790872	ncRNA_intronic
TG	DR	rs2296065	1	230301776	230279582-230419557	Intergenic
TG	DR	rs11902417	2	21198900	21118983-21413077	Intergenic
TG	DR	rs1260326	2	27730940	26938494-28668615	Intronic
TG	DR	rs1861410	2	58933591	58933591-58975143	Intergenic
TG	DR	rs2241160	2	65291546	65276049-65386462	Intronic
TG	DR	rs13033745	2	66660403	66652955-66680892	ncRNA_intronic
TG	DR	rs3923113	2	165501849	165501849-165731664	Intergenic
TG	DR	rs200513066	2	219720952	219274142-219859171	Intronic

TG	DR	rs2972149	2	227092150	226840831-227199263	NA
TG	DR	rs17036160	3	12329783	12026709-12473045	Intronic
TG	DR	rs28408152	3	115064468	115063640-115102814	Intronic
TG	DR	rs34894639	3	135798658	135798658-136412580	Intronic
TG	DR	rs7620985	3	170675588	170556719-170759494	Exonic
TG	DR	rs17601515	3	172245403	172238652-172245471	Intergenic
TG	DR	rs11716713	3	185515610	185488303-185538006	Intronic
TG	DR	rs4450871	4	4990298	4990298-4990298	Exonic
TG	DR	rs12506688	4	26104113	26085480-26128710	Intronic
TG	DR	rs10938398	4	45186139	45165650-45187622	Intergenic
TG	DR	rs342466	4	88053085	87468625-88233745	Intergenic
TG	DR	rs6533039	4	103859538	103001649-104378012	Intronic
TG	DR	rs30000	5	55803533	55794632-55833892	ncRNA_intronic
TG	DR	rs6892304	5	156282132	156146391-156282132	Intergenic
TG	DR	rs6879874	5	176730775	176710547-176740996	Intergenic
TG	DR	rs9379084	6	7231843	7231843-7231843	UTR3
TG	DR	rs7451008	6	20673880	20641336-20727570	ncRNA_intronic
TG	DR	rs3131856	6	29607101	25684606-29607101	Intronic
TG	DR	rs430655	6	33557225	33188223-35238183	Intergenic
TG	DR	rs9462258	6	37047464	37025436-37058127	Intergenic
TG	DR	rs4711750	6	43757082	43757082-43829941	Intronic
TG	DR	rs2749035	6	52633933	52613481-52738427	Intergenic
TG	DR	rs1936789	6	127419737	126657472-127529209	Intronic
TG	DR	rs590856	6	139844429	139829560-139844429	Intergenic
TG	DR	rs1708302	7	28198677	28142088-28209953	Intergenic
TG	DR	rs33951980	7	73029437	71808047-73692747	ncRNA_intronic
TG	DR	rs1447059	7	130465654	130422934-130468190	Intergenic
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TG	DR	rs75731123	8	10573698	10573698-10732082	Intergenic
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TG	DR	rs271	8	19813702	18246133-20442964	Exonic

TG	DR	rs3802177	8	118185025	118184783-118220270	Intronic
TG	DR	rs7828113	8	126485467	126447451-126616850	Intronic
TG	DR	rs10811661	9	22134094	22132076-22136489	Intergenic
TG	DR	rs11187140	10	94466910	94202905-94846093	Intronic
TG	DR	rs1408579	10	101912194	101885270-102039187	Intronic
TG	DR	rs2277205	10	114206683	114111660-114206683	Intergenic
TG	DR	rs7903146	10	114758349	114729482-114818754	ncRNA_intronic
TG	DR	rs689	11	2182224	2165173-2184848	ncRNA_intronic
TG	DR	rs7111517	11	46803708	46714279-47360412	Intronic
TG	DR	rs174560	11	61581764	61542006-61624181	Exonic
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TG	DR	rs10750766	11	65473798	65380124-65564987	NA
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TG	DR	rs76895963	12	4384844	4384844-4384844	Intronic
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TG	DR	rs12317268	12	21352541	21321684-21415496	Intronic
TG	DR	rs12814794	12	26440698	26440698-26486028	Intronic
TG	DR	rs11171739	12	56470625	56368078-56584247	Upstream
TG	DR	rs4766578	12	111904371	111756403-112896840	UTR3
TG	DR	rs1316952	12	124399550	124378965-124578145	Intergenic
TG	DR	rs7144011	14	79940383	79833494-79945162	Intronic
TG	DR	rs12910886	15	44457653	43580645-44520039	Exonic
TG	DR	rs1800588	15	58723675	58671559-58742418	Intronic
TG	DR	rs12598882	16	991002	949766-1036860	Intronic
TG	DR	rs62039480	16	15137450	15072433-15147954	Intronic
TG	DR	rs11075985	16	53805207	53797908-53845487	Downstream
TG	DR	rs9989419	16	56985139	56985139-57006829	Intergenic
TG	DR	rs7200005	16	69929137	69547741-69968892	Intronic
TG	DR	rs2925979	16	81534790	81516383-81549708	ncRNA_intronic

TG	DR	rs12944946	17	1649486	1618262-1657653	Intergenic
TG	DR	rs35989249	17	34884149	34831226-34961772	Intronic
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TG	DR	rs59956089	17	65960854	65790474-66075877	Intronic
TG	DR	rs1623060	18	21143183	21075441-21165409	Intergenic
TG	DR	rs1457489	18	57861961	57730096-58013565	Intronic
TG	DR	rs4804833	19	7970635	7880326-8621380	Intronic
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TG	DR	rs62102718	19	33891013	33887405-33900257	Intergenic
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TG	DR	rs281379	19	49214274	49168942-49252574	Intronic
TG	DR	rs6087557	20	32698275	32514061-32746203	Intergenic
TG	DR	rs56206139	20	39108705	39098621-39124802	Intergenic
TG	DR	rs6073958	20	44551855	44533106-44663475	Intergenic
TG	DR	rs12482979	21	40715946	40513750-40719241	Intronic
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TG	DN	rs1168010	1	62943979	62443979-63443979	Intergenic
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TG	DN	rs2723063	2	65280185	64780185-65780185	Intronic
TG	DN	rs6436066	2	219578361	219078361-220078361	Exonic
TG	DN	rs2972144	2	227101411	226601411-227601411	ncRNA_intronic
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TG	DN	rs762861	4	3442011	2942011-3942011	Intronic
TG	DN	rs3736669	4	87992753	87492753-88492753	NA
TG	DN	rs7694229	4	157638348	157138348-158138348	Intronic
TG	DN	rs3936510	5	55860866	55360866-56360866	Upstream
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TG	DN	rs4704830	5	156406719	155906719-156906719	Intergenic
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TG	DN	rs2523443	6	29415464	28915464-29915464	Intronic
TG	DN	rs420628	6	33556028	33056028-34056028	Intronic
TG	DN	rs11758441	6	43813586	43313586-44313586	Intronic
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TG	DN	rs77009508	6	161004972	160504972-161504972	Intergenic
TG	DN	rs55747707	7	73037366	72537366-73537366	UTR3
TG	DN	rs2686187	8	11654796	11154796-12154796	Intergenic
TG	DN	rs13273265	8	18283352	17783352-18783352	Intergenic
TG	DN	rs11570891	8	19822810	19322810-20322810	Intronic
TG	DN	rs13277801	8	59353534	58853534-59853534	Intergenic
TG	DN	rs1217101	8	64624727	64124727-65124727	Intronic
TG	DN	rs55709232	8	126447844	125947844-126947844	Intronic
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TG	DN	rs79671623	10	114141103	113641103-114641103	Intronic
TG	DN	rs35198068	10	114754784	114254784-115254784	Intronic
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TG	DN	rs99780	11	61596633	61096633-62096633	Intergenic
TG	DN	rs964184	11	116648917	116148917-117148917	Intronic
TG	DN	rs76895963	12	4384844	3884844-4884844	Intergenic
TG	DN	rs12317268	12	21352541	20852541-21852541	Intergenic
TG	DN	rs79395356	12	57738600	57238600-58238600	Intronic
TG	DN	rs2706268	12	124305573	123805573-124805573	Intronic
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TG	DN	rs72836561	17	41926126	41426126-42426126	Intergenic
TG	DN	rs11664212	18	57739179	57239179-58239179	Upstream
TG	DN	rs117162033	19	8627569	8127569-9127569	Downstream
TG	DN	rs8107974	19	19388500	18888500-19888500	Intergenic

TG	DN	rs483082	19	45416178	44916178-45916178	Intergenic
TG	DN	rs77617917	20	44563217	44063217-45063217	Intronic
WHR	DKD	rs6428792	1	119656867	119503843-119763251	Intergenic
WHR	DKD	rs61826201	1	170513186	170242675-170548555	Intronic
WHR	DKD	rs543874	1	177889480	177803163-177913519	Intergenic
WHR	DKD	rs765751	1	219669226	219622596-219790872	UTR3
WHR	DKD	rs355865	2	165630460	165567076-165758909	Intergenic
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WHR	DKD	rs9864077	3	64704891	64698813-64730121	Intergenic
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WHR	DKD	rs7649058	3	131753688	131750352-131792411	Intronic
WHR	DKD	rs9991328	4	89713121	89704367-89742764	Downstream
WHR	DKD	rs3936510	5	55860866	55854153-55861894	Intergenic
WHR	DKD	rs912056	6	6736197	6733540-7074655	Exonic
WHR	DKD	rs35044849	6	28667669	25684606-29612325	Downstream
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WHR	DKD	rs558003	13	51172963	51172237-51221618	Intronic
WHR	DKD	rs4776964	15	68016955	67680209-68140315	Intronic
WHR	DKD	rs9928094	16	53799905	53797908-53848561	ncRNA_intronic
WHR	DKD	rs4640244	17	21284223	21279289-21284673	Upstream
WHR	DKD	rs1106908	17	34942595	34835526-34962843	Intronic
WHR	DKD	rs11664369	18	57739072	57728947-58013565	Exonic

WHR	DKD	rs10406327	19	33890838	33785755-34024250	Intergenic
WHR	DKD	rs429358	19	45411941	45392254-45424351	Intergenic
WHR	DR	rs1779445	1	119508412	119448317-119784613	Intronic
WHR	DR	rs12061508	1	196584468	196464754-196944357	ncRNA_intronic
WHR	DR	rs2605108	1	219652009	219622072-219790872	Intergenic
WHR	DR	rs934778	2	25389224	25182488-25451789	Intronic
WHR	DR	rs1861410	2	58933591	58933591-58975143	Intergenic
WHR	DR	rs3923113	2	165501849	165501849-165731664	ncRNA_intronic
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WHR	DR	rs3131856	6	29607101	25414537-29607101	Intronic
WHR	DR	rs430655	6	33557225	33172306-34381136	UTR3
WHR	DR	rs4711750	6	43757082	43757082-43829941	Intronic
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WHR	DR	rs605066	6	139829666	139828916-139844429	Intronic
WHR	DR	rs1513272	7	28200097	28142088-28209953	Intronic
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WHR	DR	rs34872471	10	114754071	114746580-114818754	Intronic
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WHR	DR	rs2513987	11	102977271	102929625-103148355	Intergenic

WHR	DR	rs10842708	12	26474867	26339986-26488182	Intronic
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WHR	DR	rs705699	12	56384804	56368708-56508409	Exonic
WHR	DR	rs3764002	12	108618630	108609634-108629780	Intronic
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WHR	DR	rs12885454	14	29736838	29718644-29777492	Downstream
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WHR	DR	rs35650950	19	46147712	46147712-46169931	Downstream
WHR	DR	rs870160	20	45740964	45487607-45740964	Intergenic
WHR	DN	rs984222	1	119503843	119003843-120003843	Intergenic
WHR	DN	rs4471313	1	170367466	169867466-170867466	Intergenic
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WHR	DN	rs4611812	3	64699445	64199445-65199445	Intergenic
WHR	DN	rs900399	3	156798732	156298732-157298732	Upstream
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WHR	DN	rs2306593	17	34866546	34366546-35366546	Intergenic
WHR	DN	rs6567160	18	57829135	57329135-58329135	Intronic
WHR	DN	rs10424779	19	18409068	17909068-18909068	Intronic
WHR	DN	rs429358	19	45411941	44911941-45911941	Intergenic
WHRadjBMI	DKD	rs6428792	1	119656867	119448317-119794411	Intergenic
WHRadjBMI	DKD	rs1226712	1	170337836	170242675-170548555	Intronic
WHRadjBMI	DKD	rs765751	1	219669226	219620569-219798632	Intronic
WHRadjBMI	DKD	rs355865	2	165630460	165501849-165822558	UTR5
WHRadjBMI	DKD	rs4441433	2	188132506	188075497-188352062	Intronic
WHRadjBMI	DKD	rs17819328	3	12489342	12026709-12500065	ncRNA_intronic
WHRadjBMI	DKD	rs62264271	3	48532673	48478088-48625266	Intergenic
WHRadjBMI	DKD	rs2276824	3	52637486	52217088-52847601	Intronic
WHRadjBMI	DKD	rs9864077	3	64704891	64670021-64772819	Intronic
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WHRadjBMI	DKD	rs17630466	4	26086569	26085480-26128710	Intergenic
WHRadjBMI	DKD	rs9991328	4	89713121	89619723-89742764	Intronic
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WHRadjBMI	DKD	rs12519145	5	176555523	176516631-176749358	Intronic
WHRadjBMI	DKD	rs1294406	6	6737737	6733540-7074655	Intronic
WHRadjBMI	DKD	rs9356744	6	20685486	20635719-20727570	Upstream

WHRadjBMI	DKD	rs35044849	6	28667669	25343444-29612325	Exonic
WHRadjBMI	DKD	rs34434446	6	33196570	33172306-34389214	Intergenic
WHRadjBMI	DKD	rs998584	6	43757896	43757082-43829941	Intergenic
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WHRadjBMI	DKD	rs10241634	7	25887934	25847318-26397239	Intronic
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WHRadjBMI	DKD	rs12679556	8	72514228	72466324-72531550	Intronic
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WHRadjBMI	DKD	rs10842707	12	26471364	26440698-26491475	Intronic
WHRadjBMI	DKD	rs10747688	12	54346495	54329031-54351376	Downstream
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WHRadjBMI	DKD	rs558003	13	51172963	50786416-51221618	Exonic
WHRadjBMI	DKD	rs4925114	17	17711270	17661802-18036283	Intronic
WHRadjBMI	DKD	rs7213608	17	21279289	21279289-21283507	Intergenic
WHRadjBMI	DKD	rs11664106	18	2846812	2846499-2846812	Intronic
WHRadjBMI	DKD	rs7251505	19	33802542	33785755-34024250	Intergenic
WHRadjBMI	DKD	rs429358	19	45411941	45392254-45424351	Intergenic
WHRadjBMI	DKD	rs425105	19	47208481	47176752-47276454	Downstream
WHRadjBMI	DKD	rs2294239	22	29449477	29448643-29455687	Intronic
WHRadjBMI	DR	rs1779445	1	119508412	119195924-119793383	Intergenic
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WHRadjBMI	DR	rs1572993	1	205045087	205044339-205261963	Intergenic
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WHRadjBMI	DR	rs12692735	2	165504565	165501849-165822558	ncRNA_intronic
WHRadjBMI	DR	rs146095395	2	239769885	239769885-239769885	ncRNA_intronic
WHRadjBMI	DR	rs17819328	3	12489342	12026709-12500065	Intergenic

WHRadjBMI	DR	rs112256201	3	50671766	50599511-50724724	Intergenic
WHRadjBMI	DR	rs2276824	3	52637486	52289709-52847601	Intronic
WHRadjBMI	DR	rs4422297	3	64704860	64688757-64730121	Intronic
WHRadjBMI	DR	rs4686696	3	185516520	185488303-185538006	Intronic
WHRadjBMI	DR	rs10016294	4	936567	879977-951040	Intergenic
WHRadjBMI	DR	rs4450871	4	4990298	4990298-4990298	Intronic
WHRadjBMI	DR	rs12506688	4	26104113	26085480-26128710	Intronic
WHRadjBMI	DR	rs6825776	4	89710789	89642436-89742764	ncRNA_intronic
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WHRadjBMI	DR	rs9356744	6	20685486	20635719-20727570	Intronic
WHRadjBMI	DR	rs3131856	6	29607101	25371369-29614419	Intronic
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WHRadjBMI	DR	rs761711	6	100626148	100600583-100629461	Intronic
WHRadjBMI	DR	rs1936789	6	127419737	126487168-127532807	Intronic
WHRadjBMI	DR	rs605066	6	139829666	139828916-139844429	Intergenic
WHRadjBMI	DR	rs17365084	7	20408427	19408455-21407411	Intronic
WHRadjBMI	DR	rs9987000	7	25883207	25850464-26397239	Intronic
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WHRadjBMI	DR	rs2057869	7	46572992	46562717-46604621	Intergenic
WHRadjBMI	DR	rs1051921	7	73007943	72841823-73058017	Intronic
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WHRadjBMI	DR	rs13250456	8	72408720	72395582-72512191	Intergenic
WHRadjBMI	DR	rs821100	8	89448877	89280863-89600751	Upstream
WHRadjBMI	DR	rs1811408	9	107713860	107688629-107713873	Intronic
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WHRadjBMI	DR	rs7903146	10	114758349	114729482-114821527	Intergenic

WHRadjBMI	DR	rs1002226	11	17405617	17368013-17421886	Intergenic
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WHRadjBMI	DR	rs7130446	11	69244787	69229628-69244787	Upstream
WHRadjBMI	DR	rs10842708	12	26474867	26313849-26532354	Intronic
WHRadjBMI	DR	rs736825	12	54417576	54385599-54443718	Intronic
WHRadjBMI	DR	rs7310615	12	111865049	111826477-112906415	Upstream
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WHRadjBMI	DR	rs9596270	13	50842440	50786416-51060753	Intergenic
WHRadjBMI	DR	rs9521732	13	111033821	111015628-111043309	Intergenic
WHRadjBMI	DR	rs1190982	14	58815839	58664909-58856709	Intronic
WHRadjBMI	DR	rs34050011	16	49868513	49858036-49877939	Intergenic
WHRadjBMI	DR	rs3868143	16	67328453	67301107-67447667	Intergenic
WHRadjBMI	DR	rs2925979	16	81534790	81516383-81549708	Intronic
WHRadjBMI	DR	rs4792891	17	43973498	43948347-43992943	Intronic
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WHRadjBMI	DR	rs11664106	18	2846812	2846499-2846812	Intergenic
WHRadjBMI	DR	rs3786897	19	33893008	33785755-34024250	Intronic
WHRadjBMI	DR	rs429358	19	45411941	45388500-45424351	Intronic
WHRadjBMI	DR	rs2903948	20	45504906	45487607-45740964	Downstream
WHRadjBMI	DR	rs2211866	21	39688107	39633445-39690754	Intergenic
WHRadjBMI	DR	rs9625657	22	29349667	29258713-29363926	Exonic
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WHRadjBMI	DN	rs1531096	1	219656701	219156701-220156701	Intergenic
WHRadjBMI	DN	rs1345203	2	112253851	111753851-112753851	ncRNA_intronic
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WHRadjBMI	DN	rs10179126	2	165511794	165011794-166011794	Intergenic
WHRadjBMI	DN	rs11130362	3	53265766	52765766-53765766	Intronic

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WHRadjBMI	DN	rs3936510	5	55860866	55360866-56360866	Intronic
WHRadjBMI	DN	rs3797343	5	118691888	118191888-119191888	Intronic
WHRadjBMI	DN	rs6864880	5	173298226	172798226-173798226	Intergenic
WHRadjBMI	DN	rs35044849	6	28667669	28167669-29167669	Intergenic
WHRadjBMI	DN	rs34859217	6	33196397	32696397-33696397	Intergenic
WHRadjBMI	DN	rs75104038	6	34190104	33690104-34690104	Intergenic
WHRadjBMI	DN	rs6458349	6	43759789	43259789-44259789	Intergenic
WHRadjBMI	DN	rs72976106	6	127379919	126879919-127879919	Intergenic
WHRadjBMI	DN	rs605066	6	139829666	139329666-140329666	Intergenic
WHRadjBMI	DN	rs55747707	7	73037366	72537366-73537366	Intronic
WHRadjBMI	DN	rs2980756	8	8365705	7865705-8865705	Intergenic
WHRadjBMI	DN	rs804281	8	11611865	11111865-12111865	Intronic
WHRadjBMI	DN	rs12679556	8	72514228	72014228-73014228	Intergenic
WHRadjBMI	DN	rs35198068	10	114754784	114254784-115254784	Intronic
WHRadjBMI	DN	rs72932183	11	69150932	68650932-69650932	Intergenic
WHRadjBMI	DN	rs12829457	12	26449479	25949479-26949479	ncRNA_intronic
WHRadjBMI	DN	rs3759162	12	54331154	53831154-54831154	ncRNA_intronic
WHRadjBMI	DN	rs2706268	12	124305573	123805573-124805573	Intronic
WHRadjBMI	DN	rs797486	13	51221618	50721618-51721618	Intergenic
WHRadjBMI	DN	rs10424779	19	18409068	17909068-18909068	Intergenic
WHRadjBMI	DN	rs874966	19	33789397	33289397-34289397	Intergenic
WHRadjBMI	DN	rs429358	19	45411941	44911941-45911941	Exonic
WHRadjBMI	DN	rs6085589	20	6500462	6000462-7000462	ncRNA_intronic
WHRadjBMI	DN	rs13050201	21	47547086	47047086-48047086	Intronic

Abbreviations: CHR, chromosome; BP, base pair; BMI, Body Mass Index; WHR, waist-to-hip ratio; WHRadjBMI, waist-to-hip ratio adjusted for body mass index; HDL, high-density lipoprotein; TG, triglycerides; DKD, Diabetic kidney disease; DR, diabetic retinopathy; DN, diabetic neuropathy

Pleiotropic SNPs were identified by FUMA using significant pleiotropic variants ($P_{\text{PLACO}} < 5 \times 10^{-8}$). Locus boundary displays the region (start-end) of FUMA-annotated pleiotropic genomic locus. Top SNP is the genetic variant with the smallest P value in each pleiotropic locus.

Table S5. Confirmation of pleiotropy genes in the region of the colocalization analysis results.

Trait pair	Lead SNP	CHR	Locus boundary	PP.H4	Genes within clumping area [†]	Genes name
BMI-DKD	rs7903146	10	114722134-114818754	0.990564446	TCF7L2	The transcription factor 7-like 2
BMI-DKD	rs76895963	12	4384844-4384844	0.999877175	CCND2	cyclin D2
BMI-DR	rs10938397	4	45068929-45193147	0.996223935		
BMI-DR	rs849135	7	28142088-28209953	0.977254251	JAZF1	JAZF zinc finger 1
BMI-DR	rs6602411	10	10255003-10264200	0.992708141		
BMI-DR	rs7903146	10	114729482-114867427	0.976734306	TCF7L2	The transcription factor 7-like 2
BMI-DR	rs1557765	11	17368013-17421886	0.98663542	NUCB2 NCR3LG1 KCNJ11 ABCC8	nucleobindin 2 natural killer cell cytotoxicity receptor 3 ligand 1 potassium inwardly rectifying channel subfamily J member 11 ATP binding cassette subfamily C member 8
BMI-DR	rs76895963	12	4384844-4384844	0.999883222	CCND2	cyclin D2
BMI-DR	rs12885454	14	29680331-29777492	0.965372993		
BMI-DR	rs7144011	14	79703248-79945162	0.980495839	NRXN3	neurexin 3
HDL-C-DKD	rs429358	19	45337918-45523583	0.998773956	PVRL2 TOMM40 APOE APOC1	Poliovirus receptor- related 2 Translocase of outer mitochondrial membrane 40 apolipoprotein E apolipoprotein C1
HDL-C-DR	rs11708067	3	122936084-123131254	0.957003671	ADCY5	adenylate cyclase 5
HDL-C-DR	rs10938397	4	45164637-45187622	0.996163076		
HDL-C-DR	rs1574285	9	4282536-4296430	0.980435438	GLIS3	GLIS family zinc finger 3
HDL-C-DR	rs11171739	12	56368078-56584247	0.983634831	PMEL	premelanosome protein cyclin dependent kinase 2 RAB5B, member RAS oncogene family
HDL-C-DR					CDK2	
HDL-C-DR					RAB5B	
HDL-C-DR					SUOX	

HDL-C-DR					IKZF4 RPS26 ERBB3	sulfite oxidase IKAROS family zinc finger 4 ribosomal protein S26 erb-b2 receptor tyrosine kinase 3
HDL-C-DR						
HDL-C-DR						
HDL-C-DR	rs3184504	12	111662984-113218868	0.995028101	SH2B3 ATXN2 BRAP ACAD10 RP11-162P23.2 ALDH2 MAPKAPK5 NAA25 TRAFD1 HECTD4 RPL6 PTPN11	SH2B adaptor protein 3 ataxin 2 BRCA1 associated protein acyl-CoA dehydrogenase family member 10 RP11-162P23.2 aldehyde dehydrogenase 2 family membe MAPK activated protein kinase 5 N-alpha-acetyltransferase 25, NatB auxiliary subunit TRAF-type zinc finger domain containing 1 HECT domain E3 ubiquitin protein ligase 4 ribosomal protein L6 protein tyrosine phosphatase non-receptor type 11
HDL-C-DR						
HDL-C-DR						
HDL-C-DR						
HDL-C-DR						
HDL-C-DR						
HDL-C-DR						
HDL-C-DR						
HDL-C-DR						
HDL-C-DR						
HDL-C-DR						
HDL-C-DR						
HDL-C-DR	rs7144011	14	79833494-79945162	0.978599443	NRXN3	neurexin 3
HDL-C-DR	rs151249695	15	38909425-38909425	0.997194787		
HDL-C-DR	rs429358	19	45324138-45623467	0.999919047	PVRL2 TOMM40 APOE APOC1	Poliovirus receptor- related 2 Translocase of outer mitochondrial membrane 40 apolipoprotein E apolipoprotein C1
HDL-C-DR						
HDL-C-DR						
HDL-C-DR						

TG-DKD	rs7766070	6	20652717-20703952	0.974029592	CDKAL1	CDK5 regulatory subunit associated protein 1 like 1
TG-DKD	rs7903146	10	114729482-114817009	0.996348463	TCF7L2	transcription factor 7 like 2
TG-DKD	rs76895963	12	4328521-4384844	0.99999325	CCND2	cyclin D2
TG-DKD	rs695399	22	29889324-30082569	0.951373794	NEFH THOC5 NOPSNA1 NF2	neurofilament heavy chain THO complex subunit 5 NOPSNA1 NF2, moesin-ezrin-radixin like (MERLIN) tumor suppressor
TG-DR	rs28408152	3	115063640-115102814	0.965905015		
TG-DR	rs11716713	3	185488303-185538006	0.958831976	IGF2BP2	insulin like growth factor 2 mRNA binding protein 2
TG-DR	rs9379084	6	7231843-7231843	0.980348706	RREB1	ras responsive element binding protein 1
TG-DR	rs7451008	6	20641336-20727570	0.981525368	CDKAL1	CDK5 regulatory subunit associated protein 1 like 1
TG-DR	rs1708302	7	28142088-28209953	0.967234018	JAZF1	JAZF zinc finger 1
TG-DR	rs3802177	8	118184783-118220270	0.956990602	SLC30A8	solute carrier family 30 member 8
TG-DR	rs10811661	9	22132076-22136489	0.988773257		
TG-DR	rs7903146	10	114729482-114818754	0.994217272	TCF7L2	The transcription factor 7-like 2
TG-DR	rs10765572	11	92668975-92708710	0.956688388	MTNR1B	melatonin receptor 1B
TG-DR	rs76895963	12	4384844-4384844	0.999998928	CCND2	cyclin D2
TG-DR	rs7144011	14	79833494-79945162	0.979328661	NRXN3	neurexin 3
TG-DR	rs483082	19	45232161-45524119	0.96675395	PVRL2 TOMM40 APOE APOC1	Poliovirus receptor-related 2 Translocase of outer mitochondrial membrane 40 apolipoprotein E apolipoprotein C1
WHR-DKD	rs429358	19	45392254-45424351	0.99881706	PVRL2	

					TOMM40 APOE	Poliovirus receptor-related 2 Translocase of outer mitochondrial membrane 40 apolipoprotein E
WHR-DR	rs11705729	3	185488303-185538006	0.954655449	IGF2BP2	insulin like growth factor 2 mRNA binding protein 2
WHR-DR	rs10938397	4	45164637-45187622	0.995400614		
WHR-DR	rs1513272	7	28142088-28209953	0.986393958	JAZF1	JAZF zinc finger 1
WHR-DR	rs7144011	14	79833494-79945162	0.984168687	NRXN3	neurexin 3
WHR-DR	rs9923544	16	53797908-53848561	0.951302623	FTO	FTO alpha-ketoglutarate dependent dioxygenase
WHR-DR	rs429358	19	45386467-45428234	0.999915375	PVRL2 TOMM40 APOE APOC1	Poliovirus receptor-related 2 Translocase of outer mitochondrial membrane 40 apolipoprotein E apolipoprotein C1
WHRadjBMI-DKD	rs9356744	6	20635719-20727570	0.961933621	CDKAL1	CDK5 regulatory subunit associated protein 1 like 1
WHRadjBMI-DKD	rs429358	19	45392254-45424351	0.997710022	PVRL2 TOMM40 APOE APOC1	Poliovirus receptor-related 2 Translocase of outer mitochondrial membrane 40 apolipoprotein E apolipoprotein C1
WHRadjBMI-DR	rs112256201	3	50599511-50724724	0.958963745	C3orf18 HEMK1 MAPKAPK3 DOCK3	chromosome 3 open reading frame 18 HemK methyltransferase family member 1 MAPK activated protein kinase 3 dedicator of cytokinesis 3

WHRadjBMI-DR	rs4686696	3	185488303-185538006	0.959359614	IGF2BP2	insulin like growth factor 2 mRNA binding protein 2
WHRadjBMI-DR	rs1513272	7	28142088-28256240	0.981301508	JAZF1	JAZF zinc finger 1
WHRadjBMI-DR	rs1002226	11	17368013-17421886	0.979848802	NUCB2 NCR3LG1 KCNJ11 ABCC8	nucleobindin 2 natural killer cell cytotoxicity receptor 3 ligand 1 potassium inwardly rectifying channel subfamily J member 11 ATP binding cassette subfamily C member 8
WHRadjBMI-DR	rs7310615	12	111826477-112906415	0.960741906	SH2B3 ATXN2 BRAP ACAD10 RP11-162P23.2 ALDH2 MAPKAPK5 NAA25 TRAFD1 HECTD4 RPL6	SH2B adaptor protein 3 ataxin 2 BRCA1 associated protein acyl-CoA dehydrogenase family member 10 RP11-162P23.2 aldehyde dehydrogenase 2 family membe MAPK activated protein kinase 5 N-alpha-acetyltransferase 25, NatB auxiliary subunit TRAF-type zinc finger domain containing 1 HECT domain E3 ubiquitin protein ligase 4 ribosomal protein L6
WHRadjBMI-DR	rs429358	19	45388500-45424351	0.99936648	PVRL2 TOMM40 APOE	Poliovirus receptor- related 2 Translocase of outer mitochondrial membrane 40 apolipoprotein E

BMI-DN		10	114749734-114817009	0.969857041	TCF7L2	Transcription Factor 7 Like 2
TG-DN		10	114749734-114817009	0.985722347	TCF7L2	Transcription Factor 7 Like 2

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Table S6. Candidate pleiotropic genes identified by MAGMA

Trait	SYMBOL	Gene position	CHR	P-value
BMI-DKD	PDE4B	66258197-66840259	1	4.87E-08
BMI-DKD	GPR61	110082494-110091028	1	6.37E-09
BMI-DKD	GNAI3	110091233-110136975	1	1.21E-08
BMI-DKD	GNAT2	110145889-110155679	1	5.00E-10
BMI-DKD	SEC16B	177893091-177953438	1	6.18E-14
BMI-DKD	NCOA1	24714783-24993571	2	4.70E-09
BMI-DKD	CENPO	25016005-25045245	2	3.62E-08
BMI-DKD	ADCY3	25042038-25142708	2	1.41E-12
BMI-DKD	DNAJC27	25166505-25194963	2	1.79E-10
BMI-DKD	EFR3B	25264999-25378243	2	2.94E-14
BMI-DKD	SEMA3F	50192478-50226508	3	5.00E-10
BMI-DKD	FHIT	59735036-61237133	3	1.37E-11
BMI-DKD	CPNE4	131252399-132004254	3	5.86E-12
BMI-DKD	ETV5	185764097-185828107	3	4.09E-08
BMI-DKD	DGKG	185823457-186080026	3	7.96E-08
BMI-DKD	ANKRD31	74364100-74532703	5	2.06E-09
BMI-DKD	HMGCR	74632154-74657929	5	7.02E-08
BMI-DKD	COL4A3BP	74664311-74807963	5	2.23E-07
BMI-DKD	POLK	74807581-74896969	5	2.81E-09
BMI-DKD	ANKDD1B	74907284-74967671	5	8.96E-11
BMI-DKD	POC5	74969949-75013313	5	2.48E-09
BMI-DKD	BTN3A1	26402465-26415444	6	2.88E-08
BMI-DKD	BTN2A1	26458150-26476849	6	2.19E-08
BMI-DKD	ABT1	26597180-26600278	6	1.90E-08
BMI-DKD	ZNF322	26636518-26659980	6	1.56E-08
BMI-DKD	SCAND3	28539407-28583989	6	5.00E-10
BMI-DKD	OR5V1	29323007-29399744	6	5.86E-08
BMI-DKD	MOG	29624758-29640149	6	3.32E-08
BMI-DKD	ZFP57	29640169-29648887	6	2.00E-08

BMI-DKD	HLA-F	29690552-29706305	6	2.53E-08
BMI-DKD	TRIM31	30070674-30080883	6	8.85E-06
BMI-DKD	TRIM10	30119722-30128711	6	1.01E-08
BMI-DKD	TRIM15	30130993-30140473	6	7.67E-10
BMI-DKD	TRIM26	30152232-30181204	6	5.00E-10
BMI-DKD	TRIM39	30294256-30311506	6	7.37E-07
BMI-DKD	TRIM39-RPP21	30297359-30314631	6	1.93E-09
BMI-DKD	HLA-E	30457244-30461982	6	1.65E-08
BMI-DKD	ATAT1	30594619-30614600	6	3.28E-05
BMI-DKD	NRM	30655824-30659197	6	3.64E-08
BMI-DKD	TUBB	30687978-30693203	6	3.69E-08
BMI-DKD	FLOT1	30695486-30710510	6	3.51E-08
BMI-DKD	DDR1	30844198-30867933	6	8.18E-06
BMI-DKD	GTF2H4	30875961-30881883	6	5.32E-10
BMI-DKD	VAR2	30876019-30894236	6	1.21E-09
BMI-DKD	SFTA2	30899130-30899952	6	7.48E-11
BMI-DKD	DPCR1	30908749-30921998	6	7.37E-11
BMI-DKD	MUC21	30951495-30957680	6	4.28E-09
BMI-DKD	MUC22	30978251-31003179	6	5.00E-10
BMI-DKD	C6orf15	31079000-31080336	6	2.37E-09
BMI-DKD	PSORS1C1	31082527-31107869	6	2.89E-15
BMI-DKD	CDSN	31082867-31088223	6	1.21E-09
BMI-DKD	CCHCR1	31110216-31126015	6	5.66E-15
BMI-DKD	TCF19	31126319-31134936	6	2.08E-10
BMI-DKD	POU5F1	31132119-31148508	6	1.94E-13
BMI-DKD	HLA-B	31321649-31324965	6	1.73E-09
BMI-DKD	MICA	31371356-31383092	6	9.50E-13
BMI-DKD	MICB	31462658-31478901	6	5.00E-10
BMI-DKD	DDX39B	31497996-31510225	6	5.00E-10
BMI-DKD	ATP6V1G2-DDX39B	31497996-31514385	6	5.00E-10
BMI-DKD	ATP6V1G2	31512239-31516204	6	1.45E-12

BMI-DKD	LTA	31539831-31542101	6	2.70E-08
BMI-DKD	NCR3	31556672-31560762	6	4.37E-13
BMI-DKD	AIF1	31582961-31584798	6	3.73E-09
BMI-DKD	PRRC2A	31588497-31605548	6	5.00E-10
BMI-DKD	BAG6	31606805-31620482	6	4.91E-18
BMI-DKD	APOM	31620193-31625987	6	1.43E-15
BMI-DKD	C6orf47	31626075-31628549	6	2.43E-22
BMI-DKD	GPANK1	31629006-31634060	6	2.37E-18
BMI-DKD	CSNK2B	31633013-31638120	6	5.00E-10
BMI-DKD	CSNK2B-LY6G5B-1181	31633879-31641323	6	5.00E-10
BMI-DKD	LY6G5B	31637944-31641553	6	2.59E-09
BMI-DKD	LY6G5C	31644461-31651817	6	2.37E-09
BMI-DKD	ABHD16A	31654726-31671221	6	5.00E-10
BMI-DKD	XXbac-BPG32J3.20	31654739-31681849	6	5.00E-10
BMI-DKD	LY6G6F	31674640-31685581	6	5.00E-10
BMI-DKD	MEGT1	31674681-31685695	6	5.00E-10
BMI-DKD	C6orf25	31686371-31694491	6	1.43E-07
BMI-DKD	LY6G6C	31686425-31689622	6	4.48E-10
BMI-DKD	CLIC1	31698358-31707540	6	7.93E-16
BMI-DKD	MSH5	31707725-31732622	6	2.81E-11
BMI-DKD	MSH5-SAPCD1	31707797-31732628	6	2.81E-11
BMI-DKD	VWA7	31733367-31745108	6	5.00E-10
BMI-DKD	VAR5	31745295-31763730	6	5.00E-10
BMI-DKD	LSM2	31765173-31774761	6	2.71E-11
BMI-DKD	HSPA1L	31777396-31783437	6	3.10E-10
BMI-DKD	C6orf48	31802385-31807541	6	5.00E-10
BMI-DKD	SLC44A4	31830969-31846823	6	2.92E-13
BMI-DKD	EHMT2	31847536-31865464	6	6.19E-09
BMI-DKD	C2	31865562-31913449	6	1.64E-11
BMI-DKD	CFB	31895475-31919825	6	8.48E-13
BMI-DKD	CFB	31895475-31919861	6	8.48E-13

BMI-DKD	NELFE	31919864-31926887	6	6.82E-11
BMI-DKD	SKIV2L	31926857-31937532	6	2.20E-13
BMI-DKD	DXO	31937587-31940069	6	2.12E-10
BMI-DKD	STK19	31938868-31950598	6	4.73E-15
BMI-DKD	CYP21A2	32006042-32009447	6	1.38E-12
BMI-DKD	TNXB	32008931-32083111	6	1.02E-14
BMI-DKD	ATF6B	32065953-32096030	6	2.17E-12
BMI-DKD	PRRT1	32116136-32122150	6	1.37E-11
BMI-DKD	PPT2	32121218-32134011	6	6.15E-14
BMI-DKD	PPT2-EGFL8	32121622-32139755	6	4.45E-14
BMI-DKD	EGFL8	32132360-32136058	6	5.00E-10
BMI-DKD	AGPAT1	32135989-32145873	6	2.59E-11
BMI-DKD	RNF5	32146131-32151930	6	5.00E-10
BMI-DKD	AGER	32148745-32152101	6	5.00E-10
BMI-DKD	PBX2	32152512-32157963	6	5.38E-15
BMI-DKD	GPSM3	32158543-32163300	6	9.45E-11
BMI-DKD	NOTCH4	32162620-32191844	6	5.00E-10
BMI-DKD	C6orf10	32256303-32339684	6	3.26E-14
BMI-DKD	BTNL2	32361740-32374905	6	5.00E-10
BMI-DKD	HLA-DRA	32407619-32412823	6	9.99E-16
BMI-DKD	HLA-DQA1	32595956-32614839	6	8.55E-15
BMI-DKD	HLA-DQB1	32627244-32636160	6	4.89E-15
BMI-DKD	HLA-DQA2	32709119-32714992	6	1.55E-12
BMI-DKD	HLA-DQB2	32723875-32731311	6	3.49E-15
BMI-DKD	HLA-DOB	32780540-32784825	6	5.00E-10
BMI-DKD	TAP2	32781544-32806599	6	1.78E-15
BMI-DKD	TAP2	32789610-32806557	6	3.39E-15
BMI-DKD	PSMB8	32808494-32812480	6	5.32E-12
BMI-DKD	PSMB9	32811913-32827362	6	3.17E-14
BMI-DKD	TAP1	32812986-32821755	6	1.88E-12
BMI-DKD	HLA-DMA	32916390-32936871	6	1.84E-08

BMI-DKD	BRD2	32936437-32949282	6	4.70E-09
BMI-DKD	HLA-DPA1	33032346-33048552	6	4.55E-09
BMI-DKD	VPS52	33218049-33239824	6	4.21E-09
BMI-DKD	SYNGAP1	33387847-33421466	6	7.23E-09
BMI-DKD	BAK1	33540329-33548019	6	9.99E-16
BMI-DKD	GGNBP1	33551515-33556803	6	5.00E-10
BMI-DKD	ITPR3	33588142-33664351	6	1.42E-10
BMI-DKD	MLN	33762450-33771788	6	2.22E-10
BMI-DKD	NUDT3	34247456-34360451	6	1.71E-09
BMI-DKD	RPS10-NUDT3	34256547-34393825	6	1.55E-09
BMI-DKD	RPS10	34385231-34393902	6	5.53E-08
BMI-DKD	PACSIN1	34433916-34503006	6	7.63E-13
BMI-DKD	C6orf106	34555065-34664636	6	2.05E-07
BMI-DKD	SNRPC	34725183-34741571	6	3.39E-10
BMI-DKD	UHRF1BP1	34759857-34850915	6	2.47E-08
BMI-DKD	ANKS1A	34857042-35059179	6	1.38E-10
BMI-DKD	SCUBE3	35182190-35220856	6	9.42E-10
BMI-DKD	ZNF76	35226686-35263762	6	7.09E-10
BMI-DKD	TFAP2B	50786436-50815326	6	1.84E-08
BMI-DKD	UPK3B	76139745-76648340	7	4.37E-05
BMI-DKD	RELN	103112231-103629963	7	6.41E-07
BMI-DKD	BNC2	16409501-16870841	9	1.90E-09
BMI-DKD	LINGO2	27948076-28670283	9	6.33E-09
BMI-DKD	INVS	102861538-103063282	9	3.88E-08
BMI-DKD	TEX10	103064359-103115221	9	6.10E-07
BMI-DKD	TCF7L2	114710009-114927437	10	6.72E-15
BMI-DKD	BDNF	27676440-27743605	11	2.51E-09
BMI-DKD	HSD17B12	43577986-43878167	11	2.70E-09
BMI-DKD	CCND2	4382938-4414516	12	7.85E-11
BMI-DKD	SUOX	56390964-56400425	12	3.79E-08
BMI-DKD	IKZF4	56401443-56432219	12	1.84E-05

BMI-DKD	ERBB3	56473641-56497289	12	2.10E-08
BMI-DKD	NRXN3	78708734-80330762	14	1.00E-09
BMI-DKD	IQCH	67547138-67794598	15	1.99E-08
BMI-DKD	MAP2K5	67835047-68099461	15	1.15E-12
BMI-DKD	SKOR1	68112042-68126899	15	1.25E-12
BMI-DKD	FTO	53737875-54155853	16	3.66E-15
BMI-DKD	KCNJ12	21279509-21323179	17	4.20E-09
BMI-DKD	ZNHIT3	34842473-34855154	17	6.21E-10
BMI-DKD	MYO19	34851477-34899284	17	1.76E-09
BMI-DKD	PIGW	34890847-34895159	17	9.30E-09
BMI-DKD	GGNBP2	34900737-34946278	17	5.02E-10
BMI-DKD	DHRS11	34948228-34957235	17	5.20E-07
BMI-DKD	MRM1	34958001-34965407	17	4.23E-09
BMI-DKD	IGF2BP1	47074774-47133012	17	3.64E-08
BMI-DKD	C17orf58	65987217-65989765	17	4.59E-08
BMI-DKD	C18orf8	21083473-21111746	18	5.00E-10
BMI-DKD	NPC1	21086148-21166862	18	9.93E-09
BMI-DKD	APOE	45409011-45412650	19	5.00E-10
BMI-DR	C1orf173	75033795-75139422	1	1.68E-07
BMI-DR	MAGI3	113933371-114228545	1	1.18E-08
BMI-DR	RSBN1	114304454-114355098	1	3.52E-08
BMI-DR	ADCY3	25042038-25142708	2	8.53E-12
BMI-DR	DNAJC27	25166505-25194963	2	1.72E-11
BMI-DR	EFR3B	25264999-25378243	2	5.00E-10
BMI-DR	POMC	25383722-25391772	2	5.00E-10
BMI-DR	PPARG	12328867-12475855	3	6.48E-09
BMI-DR	CSPG5	47603729-47622282	3	1.11E-06
BMI-DR	SMARCC1	47626762-47823596	3	6.56E-10
BMI-DR	DHX30	47844399-47891685	3	5.30E-09
BMI-DR	MAP4	47892182-48130769	3	4.74E-09
BMI-DR	BSN	49591922-49708978	3	2.33E-08

BMI-DR	CADM2	85008132-86123579	3	4.15E-08
BMI-DR	ZCCHC4	25314407-25372005	4	2.61E-08
BMI-DR	ANAPC4	25378835-25420120	4	2.19E-09
BMI-DR	SLC39A8	103172198-103352415	4	7.17E-09
BMI-DR	SLC9B1	103806205-103940896	4	2.44E-08
BMI-DR	HMGCR	74632154-74657929	5	6.58E-10
BMI-DR	COL4A3BP	74664311-74807963	5	1.81E-10
BMI-DR	POLK	74807581-74896969	5	2.17E-09
BMI-DR	ANKDD1B	74907284-74967671	5	1.96E-12
BMI-DR	POC5	74969949-75013313	5	1.76E-08
BMI-DR	JADE2	133860003-133918918	5	1.96E-05
BMI-DR	CDKAL1	20534688-21232635	6	1.83E-10
BMI-DR	SCGN	25652464-25702011	6	2.47E-08
BMI-DR	HIST1H2AA	25726291-25726790	6	1.92E-08
BMI-DR	SLC17A4	25754927-25781419	6	1.58E-08
BMI-DR	SLC17A1	25783125-25832287	6	7.64E-09
BMI-DR	SLC17A3	25833294-25882514	6	3.41E-08
BMI-DR	BTN3A2	26365387-26378546	6	4.77E-08
BMI-DR	BTN3A1	26402465-26415444	6	8.74E-09
BMI-DR	BTN3A3	26440700-26453643	6	2.23E-08
BMI-DR	BTN2A1	26458150-26476849	6	1.72E-10
BMI-DR	ABT1	26597180-26600278	6	2.38E-08
BMI-DR	ZNF322	26636518-26659980	6	1.71E-08
BMI-DR	POM121L2	27253682-27279949	6	6.73E-08
BMI-DR	ZNF391	27342394-27371683	6	1.36E-08
BMI-DR	HIST1H2BN	27806323-27823487	6	2.05E-11
BMI-DR	ZNF165	28048753-28057341	6	4.04E-08
BMI-DR	ZSCAN16	28092338-28097860	6	3.37E-05
BMI-DR	ZKSCAN8	28109688-28127250	6	5.00E-10
BMI-DR	ZSCAN9	28192664-28201260	6	2.07E-08
BMI-DR	ZKSCAN4	28212401-28227011	6	2.32E-08

BMI-DR	PGBD1	28249314-28270326	6	2.52E-08
BMI-DR	ZSCAN31	28292470-28324048	6	2.34E-06
BMI-DR	ZKSCAN3	28317691-28336947	6	4.18E-06
BMI-DR	ZSCAN12	28346732-28367511	6	1.98E-08
BMI-DR	GPX6	28471073-28495992	6	4.11E-09
BMI-DR	GPX5	28493702-28502729	6	1.30E-08
BMI-DR	SCAND3	28539407-28583989	6	4.59E-11
BMI-DR	OR5V1	29323007-29399744	6	4.79E-11
BMI-DR	OR12D3	29341200-29343068	6	2.75E-07
BMI-DR	OR11A1	29393281-29424848	6	3.49E-09
BMI-DR	GABBR1	29523406-29601753	6	3.78E-13
BMI-DR	HLA-F	29690552-29706305	6	5.00E-10
BMI-DR	HLA-A	29909037-29913661	6	6.31E-12
BMI-DR	TRIM31	30070674-30080883	6	5.00E-10
BMI-DR	TRIM10	30119722-30128711	6	6.58E-12
BMI-DR	TRIM15	30130993-30140473	6	5.00E-10
BMI-DR	TRIM26	30152232-30181204	6	2.11E-07
BMI-DR	TRIM39	30294256-30311506	6	5.00E-10
BMI-DR	TRIM39-RPP21	30297359-30314631	6	2.10E-10
BMI-DR	HLA-E	30457244-30461982	6	8.04E-15
BMI-DR	GNL1	30509154-30524951	6	3.73E-08
BMI-DR	PPP1R10	30568177-30586389	6	1.74E-09
BMI-DR	ATAT1	30594619-30614600	6	6.81E-12
BMI-DR	PPP1R18	30644166-30655672	6	2.98E-08
BMI-DR	NRM	30655824-30659197	6	9.07E-09
BMI-DR	TUBB	30687978-30693203	6	4.41E-06
BMI-DR	FLOT1	30695486-30710510	6	6.22E-06
BMI-DR	DDR1	30844198-30867933	6	1.88E-14
BMI-DR	GTF2H4	30875961-30881883	6	5.00E-10
BMI-DR	VAR52	30876019-30894236	6	5.00E-10
BMI-DR	SFTA2	30899130-30899952	6	3.78E-12

BMI-DR	DPCR1	30908749-30921998	6	1.25E-09
BMI-DR	MUC21	30951495-30957680	6	1.97E-10
BMI-DR	MUC22	30978251-31003179	6	4.11E-15
BMI-DR	C6orf15	31079000-31080336	6	9.84E-11
BMI-DR	PSORS1C1	31082527-31107869	6	3.50E-15
BMI-DR	CDSN	31082867-31088223	6	3.95E-11
BMI-DR	PSORS1C2	31105313-31107127	6	1.29E-14
BMI-DR	CCHCR1	31110216-31126015	6	3.89E-16
BMI-DR	TCF19	31126319-31134936	6	6.49E-15
BMI-DR	POU5F1	31132119-31148508	6	5.00E-10
BMI-DR	HCG27	31165537-31171745	6	5.49E-13
BMI-DR	HLA-B	31321649-31324965	6	5.00E-10
BMI-DR	MICA	31371356-31383092	6	2.03E-08
BMI-DR	MICB	31462658-31478901	6	4.01E-12
BMI-DR	DDX39B	31497996-31510225	6	5.00E-10
BMI-DR	ATP6V1G2-DDX39B	31497996-31514385	6	5.00E-10
BMI-DR	ATP6V1G2	31512239-31516204	6	1.18E-14
BMI-DR	NFKBIL1	31514647-31526606	6	5.00E-10
BMI-DR	LTA	31539831-31542101	6	7.97E-07
BMI-DR	TNF	31543344-31546113	6	9.91E-09
BMI-DR	NCR3	31556672-31560762	6	5.00E-10
BMI-DR	AIF1	31582961-31584798	6	5.91E-14
BMI-DR	PRRC2A	31588497-31605548	6	2.11E-15
BMI-DR	BAG6	31606805-31620482	6	2.16E-15
BMI-DR	APOM	31620193-31625987	6	3.74E-10
BMI-DR	C6orf47	31626075-31628549	6	5.00E-10
BMI-DR	GPANK1	31629006-31634060	6	5.00E-10
BMI-DR	CSNK2B	31633013-31638120	6	3.33E-10
BMI-DR	CSNK2B-LY6G5B-1181	31633879-31641323	6	5.71E-12
BMI-DR	LY6G5B	31637944-31641553	6	5.00E-10
BMI-DR	LY6G5C	31644461-31651817	6	5.00E-10

BMI-DR	ABHD16A	31654726-31671221	6	5.22E-11
BMI-DR	XXbac-BPG32J3.20	31654739-31681849	6	6.61E-15
BMI-DR	LY6G6F	31674640-31685581	6	1.89E-15
BMI-DR	MEGT1	31674681-31685695	6	1.89E-15
BMI-DR	C6orf25	31686371-31694491	6	2.89E-10
BMI-DR	LY6G6C	31686425-31689622	6	2.20E-09
BMI-DR	DDAH2	31694815-31698394	6	2.33E-12
BMI-DR	CLIC1	31698358-31707540	6	2.70E-12
BMI-DR	MSH5	31707725-31732622	6	3.27E-13
BMI-DR	MSH5-SAPCD1	31707797-31732628	6	3.27E-13
BMI-DR	VWA7	31733367-31745108	6	2.94E-15
BMI-DR	VAR5	31745295-31763730	6	9.58E-14
BMI-DR	LSM2	31765173-31774761	6	5.00E-10
BMI-DR	HSPA1L	31777396-31783437	6	2.93E-10
BMI-DR	C6orf48	31802385-31807541	6	5.00E-10
BMI-DR	SLC44A4	31830969-31846823	6	8.33E-16
BMI-DR	EHMT2	31847536-31865464	6	4.16E-15
BMI-DR	C2	31865562-31913449	6	5.00E-10
BMI-DR	CFB	31895475-31919825	6	4.58E-13
BMI-DR	CFB	31895475-31919861	6	4.58E-13
BMI-DR	NELFE	31919864-31926887	6	5.00E-10
BMI-DR	SKIV2L	31926857-31937532	6	5.55E-15
BMI-DR	STK19	31938868-31950598	6	5.00E-10
BMI-DR	CYP21A2	32006042-32009447	6	5.00E-10
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BMI-DR	ATF6B	32065953-32096030	6	4.27E-15
BMI-DR	PRRT1	32116136-32122150	6	5.00E-10
BMI-DR	PPT2	32121218-32134011	6	5.38E-15
BMI-DR	PPT2-EGFL8	32121622-32139755	6	6.94E-15
BMI-DR	EGFL8	32132360-32136058	6	5.00E-10
BMI-DR	AGPAT1	32135989-32145873	6	1.01E-12

BMI-DR	RNF5	32146131-32151930	6	1.94E-15
BMI-DR	AGER	32148745-32152101	6	5.00E-10
BMI-DR	PBX2	32152512-32157963	6	1.55E-15
BMI-DR	GPSM3	32158543-32163300	6	1.98E-14
BMI-DR	NOTCH4	32162620-32191844	6	9.05E-15
BMI-DR	C6orf10	32256303-32339684	6	6.42E-14
BMI-DR	BTNL2	32361740-32374905	6	3.97E-14
BMI-DR	HLA-DRA	32407619-32412823	6	1.30E-12
BMI-DR	HLA-DQA1	32595956-32614839	6	1.83E-15
BMI-DR	HLA-DQB1	32627244-32636160	6	4.44E-15
BMI-DR	HLA-DQA2	32709119-32714992	6	3.92E-12
BMI-DR	HLA-DQB2	32723875-32731311	6	3.94E-15
BMI-DR	HLA-DOB	32780540-32784825	6	4.69E-14
BMI-DR	TAP2	32781544-32806599	6	3.94E-15
BMI-DR	TAP2	32789610-32806557	6	2.43E-14
BMI-DR	PSMB8	32808494-32812480	6	5.00E-10
BMI-DR	PSMB9	32811913-32827362	6	4.39E-15
BMI-DR	TAP1	32812986-32821755	6	9.33E-15
BMI-DR	XXbac-BPG181M17.5	32905141-32920899	6	5.42E-12
BMI-DR	HLA-DMA	32916390-32936871	6	6.03E-14
BMI-DR	BRD2	32936437-32949282	6	3.40E-10
BMI-DR	HLA-DOA	32971955-32977389	6	5.00E-10
BMI-DR	HLA-DPA1	33032346-33048552	6	2.29E-09
BMI-DR	HLA-DPB1	33043703-33054978	6	7.08E-09
BMI-DR	VPS52	33218049-33239824	6	2.69E-14
BMI-DR	TAPBP	33267471-33282164	6	5.00E-10
BMI-DR	DAXX	33286335-33297046	6	3.92E-08
BMI-DR	CUTA	33384219-33386094	6	8.89E-09
BMI-DR	SYNGAP1	33387847-33421466	6	1.97E-13
BMI-DR	BAK1	33540329-33548019	6	4.40E-14
BMI-DR	GGNBP1	33551515-33556803	6	5.00E-10

BMI-DR	ITPR3	33588142-33664351	6	2.89E-15
BMI-DR	LEMD2	33738979-33756913	6	4.56E-13
BMI-DR	MLN	33762450-33771788	6	5.95E-14
BMI-DR	NUDT3	34247456-34360451	6	1.56E-13
BMI-DR	RPS10-NUDT3	34256547-34393825	6	7.89E-12
BMI-DR	RPS10	34385231-34393902	6	1.75E-09
BMI-DR	PACSIN1	34433916-34503006	6	5.00E-10
BMI-DR	SPDEF	34505579-34524110	6	2.27E-09
BMI-DR	C6orf106	34555065-34664636	6	5.35E-12
BMI-DR	SNRPC	34725183-34741571	6	3.52E-10
BMI-DR	UHRF1BP1	34759857-34850915	6	1.00E-12
BMI-DR	ANKS1A	34857042-35059179	6	2.63E-12
BMI-DR	SCUBE3	35182190-35220856	6	7.59E-10
BMI-DR	ZNF76	35226686-35263762	6	1.90E-11
BMI-DR	LRFN2	40359325-40555204	6	3.40E-08
BMI-DR	TFAP2B	50786436-50815326	6	1.02E-08
BMI-DR	JAZF1	27870192-28220362	7	5.75E-09
BMI-DR	GTF2I	74071994-74175026	7	2.27E-08
BMI-DR	PTCD1	99014362-99063787	7	5.92E-09
BMI-DR	ATP5J2-PTCD1	99017372-99063820	7	5.92E-09
BMI-DR	CPSF4	99036545-99054994	7	2.32E-05
BMI-DR	ATP5J2	99046098-99063954	7	2.14E-07
BMI-DR	ZNF789	99070464-99101273	7	7.94E-06
BMI-DR	ZKSCAN5	99102274-99132323	7	5.78E-09
BMI-DR	FAM200A	99143931-99156159	7	6.27E-08
BMI-DR	GS1-259H13.10	99156291-99205433	7	8.84E-08
BMI-DR	CYP3A5	99245817-99277621	7	4.74E-08
BMI-DR	KCNH2	150642049-150675403	7	1.04E-08
BMI-DR	CCDC171	15552895-16061661	9	4.30E-09
BMI-DR	BNC2	16409501-16870841	9	1.32E-08
BMI-DR	LINGO2	27948076-28670283	9	1.41E-10

BMI-DR	TCF7L2	114710009-114927437	10	5.00E-10
BMI-DR	INS-IGF2	2153768-2182439	11	7.26E-10
BMI-DR	INS	2181009-2182571	11	3.79E-06
BMI-DR	NUCB2	17229700-17371521	11	3.34E-09
BMI-DR	NCR3LG1	17373273-17398888	11	5.67E-08
BMI-DR	KCNJ11	17407406-17410878	11	1.31E-10
BMI-DR	ABCC8	17414432-17498449	11	3.52E-07
BMI-DR	LIN7C	27516123-27528320	11	2.67E-08
BMI-DR	BDNF	27676440-27743605	11	3.79E-10
BMI-DR	SPI1	47376411-47400127	11	2.61E-08
BMI-DR	PSMC3	47440320-47447993	11	4.31E-08
BMI-DR	RAPSN	47459308-47470730	11	6.59E-08
BMI-DR	CELF1	47487496-47587121	11	4.28E-10
BMI-DR	NDUFS3	47586888-47606114	11	4.21E-10
BMI-DR	KBTBD4	47593749-47600567	11	4.21E-10
BMI-DR	MTCH2	47638867-47664175	11	6.14E-08
BMI-DR	AGBL2	47681143-47736941	11	7.03E-09
BMI-DR	NUP160	47799639-47870107	11	7.71E-07
BMI-DR	CCND2	4382938-4414516	12	3.31E-11
BMI-DR	FAIM2	50260679-50298000	12	7.27E-12
BMI-DR	PMEL	56347889-56367101	12	1.92E-11
BMI-DR	CDK2	56360553-56366568	12	1.92E-11
BMI-DR	RAB5B	56367697-56388490	12	4.51E-08
BMI-DR	SUOX	56390964-56400425	12	5.00E-10
BMI-DR	IKZF4	56401443-56432219	12	1.07E-07
BMI-DR	ERBB3	56473641-56497289	12	2.01E-09
BMI-DR	RP11-603J24.9	56495115-56503073	12	1.31E-10
BMI-DR	ESYT1	56512034-56538455	12	4.90E-06
BMI-DR	SMARCC2	56556767-56583351	12	2.88E-08
BMI-DR	SH2B3	111843752-111889427	12	4.06E-07
BMI-DR	ATXN2	111890018-112037480	12	3.52E-10

BMI-DR	BRAP	112079950-112123790	12	3.57E-11
BMI-DR	RP11-162P23.2	112191694-112229222	12	2.45E-11
BMI-DR	NAA25	112464500-112546826	12	8.95E-14
BMI-DR	HECTD4	112597992-112819896	12	1.15E-10
BMI-DR	PTPN11	112856155-112947717	12	5.00E-10
BMI-DR	RPH3A	113008184-113336686	12	9.94E-09
BMI-DR	CLIP1	122755979-122907179	12	2.90E-09
BMI-DR	GTF3A	27998681-28009958	13	3.38E-07
BMI-DR	MTIF3	28009776-28024739	13	1.70E-09
BMI-DR	N4BP2L2	33006554-33112970	13	6.70E-08
BMI-DR	PDS5B	33160564-33352157	13	1.94E-08
BMI-DR	NRXN3	78708734-80330762	14	5.00E-10
BMI-DR	TRAF3	103243813-103377837	14	8.52E-12
BMI-DR	MARK3	103851729-103970168	14	4.65E-08
BMI-DR	CKB	103985996-103989448	14	5.00E-10
BMI-DR	TRMT61A	103995521-104003410	14	3.17E-07
BMI-DR	MAP2K5	67835047-68099461	15	7.92E-11
BMI-DR	FTO	53737875-54155853	16	4.16E-15
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BMI-DR	ZNHIT3	34842473-34855154	17	3.29E-10
BMI-DR	MYO19	34851477-34899284	17	6.39E-11
BMI-DR	GGNBP2	34900737-34946278	17	1.37E-08
BMI-DR	DHRS11	34948228-34957235	17	4.75E-09
BMI-DR	MRM1	34958001-34965407	17	1.46E-10
BMI-DR	SKAP1	46210802-46507637	17	1.03E-08
BMI-DR	CALCOCO2	46908350-46943884	17	7.32E-09
BMI-DR	ATP5G1	46970127-46973233	17	3.10E-08
BMI-DR	GIP	47035916-47045958	17	3.20E-08
BMI-DR	IGF2BP1	47074774-47133012	17	8.22E-08
BMI-DR	C18orf8	21083473-21111746	18	2.18E-10
BMI-DR	NPC1	21086148-21166862	18	8.64E-11

BMI-DR	CRTC1	18794487-18893004	19	5.81E-09
BMI-DR	PVRL2	45349432-45392485	19	1.82E-07
BMI-DR	TOMM40	45393826-45406946	19	2.97E-10
BMI-DR	APOE	45409011-45412650	19	5.00E-10
BMI-DR	APOC1	45417504-45422606	19	5.00E-10
BMI-DR	GIPR	46171502-46186982	19	2.61E-08
BMI-DR	QPCTL	46195741-46207247	19	2.56E-08
HDL-C-DKD	MACF1	39546988-39952849	1	3.88E-11
HDL-C-DKD	KIAA0754	39876151-39882154	1	2.84E-08
HDL-C-DKD	BMP8A	39957318-39991607	1	1.60E-11
HDL-C-DKD	PABPC4	40026488-40042462	1	5.00E-10
HDL-C-DKD	SARS	109756540-109780791	1	2.15E-08
HDL-C-DKD	CELSR2	109792641-109818372	1	5.15E-13
HDL-C-DKD	GALNT2	230193536-230417870	1	5.63E-11
HDL-C-DKD	APOB	21224301-21266945	2	5.00E-10
HDL-C-DKD	COBLL1	165510134-165700189	2	6.07E-11
HDL-C-DKD	TIMP4	12194551-12200851	3	4.55E-09
HDL-C-DKD	PPARG	12328867-12475855	3	7.85E-11
HDL-C-DKD	ANKRD28	15708743-15901278	3	2.10E-08
HDL-C-DKD	NBEAL2	47021173-47051193	3	4.32E-12
HDL-C-DKD	SETD2	47057919-47205457	3	1.03E-10
HDL-C-DKD	KIF9	47269516-47324941	3	2.39E-10
HDL-C-DKD	KLHL18	47324407-47388306	3	2.45E-08
HDL-C-DKD	SPINK8	48348336-48369831	3	7.88E-10
HDL-C-DKD	CCDC51	48473574-48481866	3	2.38E-08
HDL-C-DKD	COL7A1	48601506-48632700	3	4.45E-08
HDL-C-DKD	SEMA3F	50192478-50226508	3	4.66E-08
HDL-C-DKD	ETV5	185764097-185828107	3	6.29E-10
HDL-C-DKD	DGKG	185823457-186080026	3	7.02E-10
HDL-C-DKD	FAM13A	89647106-90032549	4	1.27E-09
HDL-C-DKD	SLC39A8	103172198-103352415	4	2.01E-08

HDL-C-DKD	PDGFC	157681606-157892546	4	1.94E-08
HDL-C-DKD	AC022431.2	55807394-55902059	5	2.39E-10
HDL-C-DKD	HIST1H2BD	26158349-26171577	6	5.31E-09
HDL-C-DKD	HIST1H2BF	26199748-26200942	6	9.00E-09
HDL-C-DKD	BTN3A1	26402465-26415444	6	5.83E-10
HDL-C-DKD	BTN3A3	26440700-26453643	6	4.29E-10
HDL-C-DKD	BTN2A1	26458150-26476849	6	1.65E-08
HDL-C-DKD	BTN1A1	26501449-26510650	6	1.91E-08
HDL-C-DKD	ABT1	26597180-26600278	6	6.66E-10
HDL-C-DKD	ZNF322	26636518-26659980	6	4.35E-10
HDL-C-DKD	POM121L2	27253682-27279949	6	1.28E-10
HDL-C-DKD	ZNF391	27342394-27371683	6	5.00E-10
HDL-C-DKD	ZNF184	27418522-27440897	6	4.01E-07
HDL-C-DKD	HIST1H2BL	27775257-27775709	6	2.23E-07
HDL-C-DKD	HIST1H2AJ	27782112-27782607	6	2.48E-09
HDL-C-DKD	HIST1H2BN	27806323-27823487	6	1.01E-11
HDL-C-DKD	HIST1H2AL	27833034-27833606	6	5.62E-10
HDL-C-DKD	HIST1H1B	27834570-27835359	6	1.55E-07
HDL-C-DKD	HIST1H4L	27840926-27841289	6	6.01E-12
HDL-C-DKD	HIST1H3J	27858093-27860884	6	8.66E-08
HDL-C-DKD	OR2B2	27878963-27880174	6	6.34E-12
HDL-C-DKD	ZNF165	28048753-28057341	6	2.50E-08
HDL-C-DKD	ZSCAN16	28092338-28097860	6	2.42E-07
HDL-C-DKD	ZKSCAN8	28109688-28127250	6	4.57E-10
HDL-C-DKD	ZSCAN9	28192664-28201260	6	1.37E-12
HDL-C-DKD	ZKSCAN4	28212401-28227011	6	7.17E-09
HDL-C-DKD	PGBD1	28249314-28270326	6	6.01E-09
HDL-C-DKD	ZSCAN31	28292470-28324048	6	1.91E-13
HDL-C-DKD	ZKSCAN3	28317691-28336947	6	4.81E-12
HDL-C-DKD	ZSCAN12	28346732-28367511	6	2.14E-12
HDL-C-DKD	GPX6	28471073-28495992	6	1.76E-12

HDL-C-DKD	SCAND3	28539407-28583989	6	3.52E-10
HDL-C-DKD	TRIM27	28870779-28891766	6	9.40E-11
HDL-C-DKD	OR5V1	29323007-29399744	6	1.66E-09
HDL-C-DKD	OR12D3	29341200-29343068	6	1.26E-10
HDL-C-DKD	OR11A1	29393281-29424848	6	1.38E-07
HDL-C-DKD	UBD	29523292-29527702	6	7.37E-11
HDL-C-DKD	GABBR1	29523406-29601753	6	1.68E-07
HDL-C-DKD	ZNRD1	30026676-30032686	6	1.30E-13
HDL-C-DKD	RNF39	30038043-30043664	6	2.46E-13
HDL-C-DKD	TRIM31	30070674-30080883	6	6.65E-12
HDL-C-DKD	TRIM10	30119722-30128711	6	5.00E-10
HDL-C-DKD	TRIM15	30130993-30140473	6	5.00E-10
HDL-C-DKD	TRIM26	30152232-30181204	6	3.81E-10
HDL-C-DKD	TRIM39	30294256-30311506	6	2.25E-09
HDL-C-DKD	TRIM39-RPP21	30297359-30314631	6	5.87E-08
HDL-C-DKD	GNL1	30509154-30524951	6	2.47E-17
HDL-C-DKD	ABCF1	30539153-30564956	6	4.35E-17
HDL-C-DKD	ATAT1	30594619-30614600	6	5.00E-10
HDL-C-DKD	C6orf136	30614816-30620987	6	2.71E-17
HDL-C-DKD	PPP1R18	30644166-30655672	6	1.05E-17
HDL-C-DKD	NRM	30655824-30659197	6	6.67E-18
HDL-C-DKD	TUBB	30687978-30693203	6	8.72E-13
HDL-C-DKD	FLOT1	30695486-30710510	6	1.84E-13
HDL-C-DKD	DDR1	30844198-30867933	6	5.00E-10
HDL-C-DKD	GTF2H4	30875961-30881883	6	5.00E-10
HDL-C-DKD	VAR52	30876019-30894236	6	6.20E-14
HDL-C-DKD	SFTA2	30899130-30899952	6	5.00E-10
HDL-C-DKD	DPCR1	30908749-30921998	6	2.01E-10
HDL-C-DKD	MUC21	30951495-30957680	6	5.00E-10
HDL-C-DKD	MUC22	30978251-31003179	6	7.33E-15
HDL-C-DKD	C6orf15	31079000-31080336	6	9.14E-21

HDL-C-DKD	PSORS1C1	31082527-31107869	6	8.16E-15
HDL-C-DKD	CDSN	31082867-31088223	6	5.00E-10
HDL-C-DKD	PSORS1C2	31105313-31107127	6	1.33E-15
HDL-C-DKD	CCHCR1	31110216-31126015	6	7.33E-15
HDL-C-DKD	TCF19	31126319-31134936	6	5.22E-15
HDL-C-DKD	POU5F1	31132119-31148508	6	5.00E-10
HDL-C-DKD	HCG27	31165537-31171745	6	1.69E-14
HDL-C-DKD	HLA-B	31321649-31324965	6	1.31E-15
HDL-C-DKD	MICA	31371356-31383092	6	2.26E-11
HDL-C-DKD	MICB	31462658-31478901	6	1.00E-13
HDL-C-DKD	MCCD1	31496494-31498009	6	1.18E-10
HDL-C-DKD	DDX39B	31497996-31510225	6	3.89E-16
HDL-C-DKD	ATP6V1G2-DDX39B	31497996-31514385	6	8.55E-15
HDL-C-DKD	ATP6V1G2	31512239-31516204	6	2.71E-14
HDL-C-DKD	NFKBIL1	31514647-31526606	6	2.41E-12
HDL-C-DKD	LTA	31539831-31542101	6	5.89E-11
HDL-C-DKD	LST1	31553901-31556686	6	5.00E-10
HDL-C-DKD	NCR3	31556672-31560762	6	5.00E-10
HDL-C-DKD	PRRC2A	31588497-31605548	6	7.72E-15
HDL-C-DKD	BAG6	31606805-31620482	6	5.00E-10
HDL-C-DKD	APOM	31620193-31625987	6	5.00E-10
HDL-C-DKD	C6orf47	31626075-31628549	6	1.91E-10
HDL-C-DKD	GPANK1	31629006-31634060	6	5.00E-10
HDL-C-DKD	CSNK2B	31633013-31638120	6	5.00E-10
HDL-C-DKD	CSNK2B-LY6G5B-1181	31633879-31641323	6	1.40E-14
HDL-C-DKD	LY6G5B	31637944-31641553	6	2.84E-10
HDL-C-DKD	LY6G5C	31644461-31651817	6	9.65E-09
HDL-C-DKD	ABHD16A	31654726-31671221	6	5.14E-09
HDL-C-DKD	XXbac-BPG32J3.20	31654739-31681849	6	6.84E-13
HDL-C-DKD	LY6G6F	31674640-31685581	6	1.89E-15
HDL-C-DKD	MEGT1	31674681-31685695	6	1.89E-15

HDL-C-DKD	LY6G6E	31679548-31681842	6	1.36E-10
HDL-C-DKD	C6orf25	31686371-31694491	6	5.00E-10
HDL-C-DKD	LY6G6C	31686425-31689622	6	5.00E-10
HDL-C-DKD	CLIC1	31698358-31707540	6	3.08E-17
HDL-C-DKD	MSH5	31707725-31732622	6	9.36E-13
HDL-C-DKD	MSH5-SAPCD1	31707797-31732628	6	9.36E-13
HDL-C-DKD	VWA7	31733367-31745108	6	5.00E-10
HDL-C-DKD	VAR5	31745295-31763730	6	3.85E-14
HDL-C-DKD	LSM2	31765173-31774761	6	5.00E-10
HDL-C-DKD	HSPA1L	31777396-31783437	6	8.40E-12
HDL-C-DKD	C6orf48	31802385-31807541	6	9.14E-18
HDL-C-DKD	NEU1	31825436-31830683	6	5.00E-10
HDL-C-DKD	SLC44A4	31830969-31846823	6	5.00E-15
HDL-C-DKD	EHMT2	31847536-31865464	6	5.31E-10
HDL-C-DKD	C2	31865562-31913449	6	4.27E-15
HDL-C-DKD	CFB	31895475-31919825	6	2.05E-15
HDL-C-DKD	CFB	31895475-31919861	6	2.05E-15
HDL-C-DKD	NELFE	31919864-31926887	6	1.57E-10
HDL-C-DKD	SKIV2L	31926857-31937532	6	5.00E-10
HDL-C-DKD	STK19	31938868-31950598	6	2.97E-13
HDL-C-DKD	CYP21A2	32006042-32009447	6	1.80E-13
HDL-C-DKD	TNXB	32008931-32083111	6	1.28E-15
HDL-C-DKD	ATF6B	32065953-32096030	6	3.43E-13
HDL-C-DKD	PRRT1	32116136-32122150	6	1.90E-08
HDL-C-DKD	PPT2	32121218-32134011	6	2.08E-08
HDL-C-DKD	PPT2-EGFL8	32121622-32139755	6	8.94E-11
HDL-C-DKD	EGFL8	32132360-32136058	6	5.00E-10
HDL-C-DKD	AGPAT1	32135989-32145873	6	1.60E-14
HDL-C-DKD	RNF5	32146131-32151930	6	1.80E-10
HDL-C-DKD	AGER	32148745-32152101	6	7.99E-10
HDL-C-DKD	PBX2	32152512-32157963	6	5.00E-10

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HDL-C-DKD	NOTCH4	32162620-32191844	6	3.61E-15
HDL-C-DKD	C6orf10	32256303-32339684	6	5.00E-10
HDL-C-DKD	BTNL2	32361740-32374905	6	2.70E-11
HDL-C-DKD	HLA-DRA	32407619-32412823	6	3.15E-13
HDL-C-DKD	HLA-DQA1	32595956-32614839	6	5.00E-10
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HDL-C-DKD	HLA-DQA2	32709119-32714992	6	8.88E-16
HDL-C-DKD	HLA-DQB2	32723875-32731311	6	5.00E-10
HDL-C-DKD	HLA-DOB	32780540-32784825	6	1.00E-12
HDL-C-DKD	TAP2	32781544-32806599	6	3.05E-15
HDL-C-DKD	TAP2	32789610-32806557	6	5.00E-10
HDL-C-DKD	PSMB8	32808494-32812480	6	5.00E-10
HDL-C-DKD	PSMB9	32811913-32827362	6	3.42E-12
HDL-C-DKD	TAP1	32812986-32821755	6	3.42E-12
HDL-C-DKD	HLA-DPA1	33032346-33048552	6	3.52E-09
HDL-C-DKD	HLA-DPB1	33043703-33054978	6	7.71E-11
HDL-C-DKD	COL11A2	33130458-33160276	6	5.00E-10
HDL-C-DKD	BAK1	33540329-33548019	6	1.42E-10
HDL-C-DKD	GGNBP1	33551515-33556803	6	1.18E-13
HDL-C-DKD	ITPR3	33588142-33664351	6	1.41E-13
HDL-C-DKD	MLN	33762450-33771788	6	1.41E-09
HDL-C-DKD	HMGA1	34204650-34214008	6	3.02E-05
HDL-C-DKD	C6orf1	34214157-34217247	6	3.76E-09
HDL-C-DKD	NUDT3	34247456-34360451	6	9.30E-08
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HDL-C-DKD	SNRPC	34725183-34741571	6	1.25E-10

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HDL-C-DKD	FKBP5	35541362-35696360	6	1.62E-08
HDL-C-DKD	GNMT	42928496-42931618	6	3.66E-11
HDL-C-DKD	PEX6	42931608-42946958	6	1.17E-06
HDL-C-DKD	BAZ1B	72854728-72936608	7	6.17E-09
HDL-C-DKD	BCL7B	72950686-72972332	7	6.13E-12
HDL-C-DKD	TBL2	72983262-72993121	7	5.00E-10
HDL-C-DKD	MLXIPL	73007524-73038873	7	2.54E-13
HDL-C-DKD	GIMAP4	150264365-150271041	7	3.10E-08
HDL-C-DKD	AOC1	150521715-150558592	7	1.53E-08
HDL-C-DKD	CSGALNACT1	19261672-19615540	8	4.09E-11
HDL-C-DKD	LPL	19759228-19824769	8	1.37E-14
HDL-C-DKD	RP11-127H5.1	105602961-106431488	8	9.19E-09
HDL-C-DKD	ZFPM2	106330920-106816760	8	5.33E-09
HDL-C-DKD	TRPS1	116420724-116821899	8	8.24E-10
HDL-C-DKD	TRIB1	126442563-126450647	8	8.06E-10
HDL-C-DKD	GPIHBP1	144295068-144299044	8	4.44E-05
HDL-C-DKD	ABCA1	107543283-107690518	9	9.44E-15
HDL-C-DKD	ALOX5	45869661-45941561	10	1.01E-10
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HDL-C-DKD	TECTB	114043493-114064793	10	2.89E-08
HDL-C-DKD	RRAS2	14299472-14386052	11	2.57E-09
HDL-C-DKD	COPB1	14464986-14521573	11	5.00E-10
HDL-C-DKD	PSMA1	14515329-14541890	11	2.75E-08
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HDL-C-DKD	FADS2	61560452-61634826	11	4.72E-11

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HDL-C-DKD	APOA5	116660083-116663136	11	5.00E-10
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HDL-C-DKD	APOC3	116700422-116703788	11	5.13E-08
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HDL-C-DKD	PAFAH1B2	117014983-117047610	11	7.98E-13
HDL-C-DKD	PCSK7	117075053-117103241	11	3.26E-11
HDL-C-DKD	RNF214	117103341-117157161	11	4.06E-08
HDL-C-DKD	CEP164	117185273-117283984	11	1.15E-08
HDL-C-DKD	DSCAML1	117298489-117688240	11	3.22E-08
HDL-C-DKD	ST3GAL4	126225535-126310239	11	1.07E-06
HDL-C-DKD	RAB5B	56367697-56388490	12	2.97E-05
HDL-C-DKD	SUOX	56390964-56400425	12	1.10E-08
HDL-C-DKD	ERBB3	56473641-56497289	12	1.90E-07
HDL-C-DKD	SH2B3	111843752-111889427	12	5.00E-10
HDL-C-DKD	ATXN2	111890018-112037480	12	3.37E-10
HDL-C-DKD	BRAP	112079950-112123790	12	2.13E-08
HDL-C-DKD	RP11-162P23.2	112191694-112229222	12	1.10E-08
HDL-C-DKD	HNF1A	121416346-121440315	12	1.55E-10
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HDL-C-DKD	MPHOSPH9	123636867-123728561	12	1.55E-09
HDL-C-DKD	CDK2AP1	123745528-123756881	12	4.74E-08
HDL-C-DKD	SETD8	123868320-123893905	12	5.00E-10
HDL-C-DKD	RILPL2	123899936-123921264	12	2.25E-08
HDL-C-DKD	DNAH10	124247042-124420753	12	7.27E-14

HDL-C-DKD	CCDC92	124403207-124457378	12	5.03E-09
HDL-C-DKD	DNAH10OS	124410971-124419531	12	3.81E-07
HDL-C-DKD	ZNF664	124456392-124499986	12	3.23E-09
HDL-C-DKD	FAM101A	124457788-124800570	12	1.48E-12
HDL-C-DKD	SCARB1	125261402-125367214	12	5.00E-10
HDL-C-DKD	TGM7	43568478-43594453	15	3.21E-09
HDL-C-DKD	ADAL	43622872-43646096	15	3.12E-16
HDL-C-DKD	TUBGCP4	43661419-43699293	15	5.10E-10
HDL-C-DKD	TP53BP1	43699407-43802926	15	1.11E-09
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HDL-C-DKD	STRC	43891596-44010458	15	2.02E-11
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HDL-C-DKD	CTDSPL2	44719432-44821236	15	2.22E-11
HDL-C-DKD	EIF3J	44829255-44855227	15	1.90E-10
HDL-C-DKD	SPG11	44854894-44955876	15	5.00E-10
HDL-C-DKD	ALDH1A2	58245622-58790065	15	5.00E-10
HDL-C-DKD	LIPC	58702768-58861151	15	1.02E-14
HDL-C-DKD	FTO	53737875-54155853	16	3.66E-15
HDL-C-DKD	AMFR	56395364-56459450	16	2.16E-08
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HDL-C-DKD	BBS2	56500748-56554195	16	4.44E-08
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HDL-C-DKD	NUP93	56764017-56878797	16	5.00E-10
HDL-C-DKD	SLC12A3	56899119-56949762	16	5.00E-10
HDL-C-DKD	HERPUD1	56965960-56977798	16	8.24E-13
HDL-C-DKD	CETP	56995762-57017757	16	6.63E-14
HDL-C-DKD	NLRC5	57023397-57117443	16	5.00E-10
HDL-C-DKD	CPNE2	57126449-57181878	16	1.79E-15
HDL-C-DKD	RSPRY1	57220049-57274387	16	1.03E-08

HDL-C-DKD	GPR114	57576333-57625593	16	1.48E-08
HDL-C-DKD	PSKH1	67927175-67963581	16	6.99E-14
HDL-C-DKD	CTRL	67961543-67966317	16	5.41E-09
HDL-C-DKD	CTC-479C5.12	67963517-67969920	16	1.90E-05
HDL-C-DKD	LCAT	67973653-67978034	16	8.25E-09
HDL-C-DKD	SLC12A4	67977377-68003504	16	2.28E-12
HDL-C-DKD	DPEP3	68009566-68014732	16	5.19E-13
HDL-C-DKD	DPEP2	68021297-68034489	16	5.00E-10
HDL-C-DKD	DUS2	68021649-68113223	16	1.95E-09
HDL-C-DKD	NFATC3	68118654-68263162	16	3.30E-11
HDL-C-DKD	ESRP2	68263014-68272005	16	5.00E-10
HDL-C-DKD	PLA2G15	68279207-68294961	16	1.92E-09
HDL-C-DKD	SLC7A6	68298433-68335722	16	3.03E-10
HDL-C-DKD	SLC7A6OS	68318406-68344849	16	1.03E-06
HDL-C-DKD	PRMT7	68344877-68392466	16	9.07E-09
HDL-C-DKD	SMPD3	68392231-68482591	16	2.50E-06
HDL-C-DKD	CD300LG	41924516-41940997	17	4.61E-25
HDL-C-DKD	MPP2	41952725-41987068	17	4.42E-08
HDL-C-DKD	C17orf53	42219274-42239844	17	8.44E-11
HDL-C-DKD	SLC4A1	42325753-42345509	17	1.34E-20
HDL-C-DKD	DYM	46570039-46987717	18	4.92E-08
HDL-C-DKD	LIPG	47087069-47119272	18	6.27E-15
HDL-C-DKD	MYO5B	47349183-47721463	18	3.43E-13
HDL-C-DKD	ANGPTL4	8428173-8439257	19	5.00E-10
HDL-C-DKD	RAB11B	8454865-8469318	19	5.00E-10
HDL-C-DKD	M	8478154-8503901	19	9.46E-09
HDL-C-DKD	HNRNPM	8509651-8553998	19	4.17E-09
HDL-C-DKD	PRAM1	8554940-8567996	19	1.01E-08
HDL-C-DKD	MYO1F	8585674-8642461	19	6.75E-09
HDL-C-DKD	DOCK6	11309971-11373157	19	2.89E-11
HDL-C-DKD	C19orf80	11348178-11352619	19	1.29E-09

HDL-C-DKD	PEPD	33877856-34012700	19	6.43E-10
HDL-C-DKD	PVRL2	45349432-45392485	19	7.55E-15
HDL-C-DKD	TOMM40	45393826-45406946	19	5.00E-10
HDL-C-DKD	APOE	45409011-45412650	19	5.00E-10
HDL-C-DKD	APOC1	45417504-45422606	19	4.67E-13
HDL-C-DKD	APOC4	45445495-45452820	19	3.45E-09
HDL-C-DKD	APOC4-APOC2	45445495-45452822	19	3.45E-09
HDL-C-DKD	APOC2	45449243-45452822	19	1.64E-10
HDL-C-DKD	CTB-129P6.11	45453301-45457264	19	1.64E-09
HDL-C-DKD	CLPTM1	45457842-45496599	19	2.56E-10
HDL-C-DKD	RELB	45504688-45541452	19	3.77E-13
HDL-C-DKD	PRKD2	47177532-47220384	19	4.37E-08
HDL-C-DKD	FPR3	52298416-52329442	19	1.34E-08
HDL-C-DKD	LILRA3	54799854-54809952	19	2.07E-13
HDL-C-DKD	HNF4A	42984340-43061485	20	9.52E-12
HDL-C-DKD	SNX21	44462449-44471914	20	4.25E-08
HDL-C-DKD	ACOT8	44470360-44486045	20	8.62E-09
HDL-C-DKD	ZSWIM3	44486256-44507761	20	3.74E-09
HDL-C-DKD	PLTP	44527399-44540794	20	2.08E-07
HDL-C-DKD	PCIF1	44563267-44576662	20	5.00E-10
HDL-C-DKD	ZNF335	44577292-44600833	20	3.77E-07
HDL-C-DKD	MMP9	44637547-44645200	20	2.92E-12
HDL-C-DKD	COL18A1	46825052-46933634	21	7.77E-09
HDL-C-DKD	SLC19A1	46913486-46964325	21	5.85E-09
HDL-C-DKD	MTMR3	30279144-30426855	22	3.91E-09
HDL-C-DKD	HORMAD2	30476163-30573064	22	9.95E-10
HDL-C-DKD	PLA2G6	38507502-38601697	22	2.91E-08
HDL-C-DR	NUDC	27226729-27273353	1	6.50E-05
HDL-C-DR	MACF1	39546988-39952849	1	7.17E-14
HDL-C-DR	KIAA0754	39876151-39882154	1	1.05E-08
HDL-C-DR	BMP8A	39957318-39991607	1	1.58E-14

HDL-C-DR	PABPC4	40026488-40042462	1	1.25E-11
HDL-C-DR	MTF2	93544792-93604638	1	6.56E-07
HDL-C-DR	TMED5	93615299-93646285	1	1.97E-07
HDL-C-DR	CCDC18	93645476-93744287	1	1.53E-08
HDL-C-DR	DR1	93811445-93835055	1	6.44E-08
HDL-C-DR	PTPN22	114356433-114414381	1	2.92E-10
HDL-C-DR	TEX35	178482212-178517734	1	2.06E-07
HDL-C-DR	C1orf220	178511887-178518024	1	2.06E-07
HDL-C-DR	C1ORF220	178511950-178517579	1	2.06E-07
HDL-C-DR	GALNT2	230193536-230417870	1	6.61E-15
HDL-C-DR	APOB	21224301-21266945	2	5.00E-10
HDL-C-DR	CEP68	65283500-65314138	2	9.37E-05
HDL-C-DR	MEIS1	66660584-66801001	2	1.74E-08
HDL-C-DR	COBLL1	165510134-165700189	2	5.00E-10
HDL-C-DR	MLTK	173940163-174132738	2	8.13E-08
HDL-C-DR	TIMP4	12194551-12200851	3	5.34E-09
HDL-C-DR	PPARG	12328867-12475855	3	8.40E-11
HDL-C-DR	TMEM110-MUSTN1	52867137-52931578	3	4.21E-09
HDL-C-DR	TMEM110	52870235-52931612	3	4.21E-09
HDL-C-DR	SFMBT1	52937588-53080766	3	1.05E-06
HDL-C-DR	RP11-894J14.5	53003135-53133469	3	3.52E-08
HDL-C-DR	ZBTB20	114056941-114866118	3	1.82E-10
HDL-C-DR	PDIA5	122785909-122944074	3	6.80E-10
HDL-C-DR	SEC22A	122920774-122992977	3	5.88E-08
HDL-C-DR	ADCY5	123001143-123168605	3	5.25E-13
HDL-C-DR	PPP2R3A	135684515-135866733	3	1.20E-05
HDL-C-DR	MSL2	135867764-135916083	3	5.13E-08
HDL-C-DR	STAG1	136055077-136471220	3	4.42E-06
HDL-C-DR	IGF2BP2	185361527-185542844	3	6.41E-09
HDL-C-DR	DGKG	185823457-186080026	3	1.46E-05
HDL-C-DR	WFS1	6271576-6304992	4	1.73E-08

HDL-C-DR	AFF1	87856154-88062206	4	3.48E-10
HDL-C-DR	FAM13A	89647106-90032549	4	1.63E-05
HDL-C-DR	BANK1	102332443-102995969	4	5.00E-10
HDL-C-DR	SLC39A8	103172198-103352415	4	2.11E-11
HDL-C-DR	UBE2D3	103715540-103790053	4	1.86E-08
HDL-C-DR	SLC9B1	103806205-103940896	4	5.00E-10
HDL-C-DR	SLC9B2	103941025-104006986	4	5.00E-10
HDL-C-DR	BDH2	104000592-104021040	4	1.46E-09
HDL-C-DR	CENPE	104026963-104119566	4	1.86E-06
HDL-C-DR	AC022431.2	55807394-55902059	5	6.43E-11
HDL-C-DR	ANKDD1B	74907284-74967671	5	0.00012449
HDL-C-DR	POC5	74969949-75013313	5	6.71E-09
HDL-C-DR	CDKAL1	20534688-21232635	6	4.06E-09
HDL-C-DR	SLC17A1	25783125-25832287	6	4.99E-08
HDL-C-DR	SLC17A3	25833294-25882514	6	4.28E-08
HDL-C-DR	SLC17A2	25912982-25930946	6	4.22E-08
HDL-C-DR	TRIM38	25963030-25987384	6	4.76E-08
HDL-C-DR	HIST1H2BD	26158349-26171577	6	2.78E-09
HDL-C-DR	HIST1H2BF	26199748-26200942	6	1.98E-09
HDL-C-DR	BTN3A2	26365387-26378546	6	8.50E-09
HDL-C-DR	BTN3A1	26402465-26415444	6	1.57E-10
HDL-C-DR	BTN3A3	26440700-26453643	6	1.13E-10
HDL-C-DR	BTN2A1	26458150-26476849	6	2.30E-08
HDL-C-DR	BTN1A1	26501449-26510650	6	3.36E-08
HDL-C-DR	ABT1	26597180-26600278	6	1.03E-09
HDL-C-DR	ZNF322	26636518-26659980	6	5.77E-10
HDL-C-DR	POM121L2	27253682-27279949	6	1.33E-10
HDL-C-DR	ZNF391	27342394-27371683	6	2.44E-07
HDL-C-DR	ZNF184	27418522-27440897	6	5.00E-10
HDL-C-DR	HIST1H2BL	27775257-27775709	6	1.43E-07
HDL-C-DR	HIST1H2AJ	27782112-27782607	6	6.21E-10

HDL-C-DR	HIST1H2BN	27806323-27823487	6	2.11E-08
HDL-C-DR	HIST1H2AL	27833034-27833606	6	1.26E-10
HDL-C-DR	HIST1H1B	27834570-27835359	6	2.14E-07
HDL-C-DR	HIST1H4L	27840926-27841289	6	8.73E-12
HDL-C-DR	HIST1H3J	27858093-27860884	6	5.00E-10
HDL-C-DR	OR2B2	27878963-27880174	6	9.17E-12
HDL-C-DR	ZNF165	28048753-28057341	6	5.00E-10
HDL-C-DR	ZSCAN16	28092338-28097860	6	2.35E-07
HDL-C-DR	ZKSCAN8	28109688-28127250	6	2.45E-10
HDL-C-DR	ZSCAN9	28192664-28201260	6	5.00E-10
HDL-C-DR	ZKSCAN4	28212401-28227011	6	1.90E-11
HDL-C-DR	PGBD1	28249314-28270326	6	2.21E-08
HDL-C-DR	ZSCAN31	28292470-28324048	6	3.45E-12
HDL-C-DR	ZKSCAN3	28317691-28336947	6	4.31E-12
HDL-C-DR	ZSCAN12	28346732-28367511	6	1.76E-12
HDL-C-DR	GPX6	28471073-28495992	6	9.13E-13
HDL-C-DR	SCAND3	28539407-28583989	6	5.00E-10
HDL-C-DR	TRIM27	28870779-28891766	6	3.87E-11
HDL-C-DR	OR5V1	29323007-29399744	6	1.17E-13
HDL-C-DR	OR12D3	29341200-29343068	6	3.56E-11
HDL-C-DR	OR11A1	29393281-29424848	6	2.00E-07
HDL-C-DR	UBD	29523292-29527702	6	3.81E-12
HDL-C-DR	GABBR1	29523406-29601753	6	4.94E-15
HDL-C-DR	MOG	29624758-29640149	6	4.33E-09
HDL-C-DR	ZFP57	29640169-29648887	6	1.96E-05
HDL-C-DR	HLA-F	29690552-29706305	6	3.10E-10
HDL-C-DR	HLA-G	29794744-29798902	6	7.51E-10
HDL-C-DR	HLA-A	29909037-29913661	6	2.64E-11
HDL-C-DR	ZNRD1	30026676-30032686	6	1.07E-14
HDL-C-DR	RNF39	30038043-30043664	6	2.38E-14
HDL-C-DR	TRIM31	30070674-30080883	6	5.00E-10

HDL-C-DR	TRIM40	30103885-30116512	6	6.41E-09
HDL-C-DR	TRIM10	30119722-30128711	6	5.88E-13
HDL-C-DR	TRIM15	30130993-30140473	6	2.39E-10
HDL-C-DR	TRIM26	30152232-30181204	6	2.51E-11
HDL-C-DR	TRIM39	30294256-30311506	6	4.07E-14
HDL-C-DR	TRIM39-RPP21	30297359-30314631	6	2.35E-10
HDL-C-DR	GNL1	30509154-30524951	6	5.96E-19
HDL-C-DR	ABCF1	30539153-30564956	6	1.37E-18
HDL-C-DR	PPP1R10	30568177-30586389	6	1.11E-08
HDL-C-DR	MRPS18B	30585486-30594172	6	1.11E-08
HDL-C-DR	ATAT1	30594619-30614600	6	5.00E-10
HDL-C-DR	C6orf136	30614816-30620987	6	8.05E-19
HDL-C-DR	PPP1R18	30644166-30655672	6	5.00E-10
HDL-C-DR	NRM	30655824-30659197	6	2.42E-19
HDL-C-DR	TUBB	30687978-30693203	6	1.08E-12
HDL-C-DR	FLOT1	30695486-30710510	6	7.11E-15
HDL-C-DR	DDR1	30844198-30867933	6	6.72E-13
HDL-C-DR	GTF2H4	30875961-30881883	6	6.86E-11
HDL-C-DR	VAR2	30876019-30894236	6	2.75E-14
HDL-C-DR	SFTA2	30899130-30899952	6	5.00E-10
HDL-C-DR	DPCR1	30908749-30921998	6	3.38E-10
HDL-C-DR	MUC21	30951495-30957680	6	5.00E-10
HDL-C-DR	MUC22	30978251-31003179	6	3.33E-15
HDL-C-DR	C6orf15	31079000-31080336	6	5.00E-10
HDL-C-DR	PSORS1C1	31082527-31107869	6	5.00E-10
HDL-C-DR	CDSN	31082867-31088223	6	1.87E-12
HDL-C-DR	PSORS1C2	31105313-31107127	6	4.94E-15
HDL-C-DR	CCHCR1	31110216-31126015	6	6.44E-14
HDL-C-DR	TCF19	31126319-31134936	6	2.89E-15
HDL-C-DR	POU5F1	31132119-31148508	6	5.66E-15
HDL-C-DR	HCG27	31165537-31171745	6	1.67E-15

HDL-C-DR	HLA-B	31321649-31324965	6	4.16E-17
HDL-C-DR	MICA	31371356-31383092	6	5.55E-16
HDL-C-DR	MICB	31462658-31478901	6	8.80E-14
HDL-C-DR	MCCD1	31496494-31498009	6	5.00E-10
HDL-C-DR	DDX39B	31497996-31510225	6	7.77E-16
HDL-C-DR	ATP6V1G2-DDX39B	31497996-31514385	6	2.44E-13
HDL-C-DR	ATP6V1G2	31512239-31516204	6	1.39E-15
HDL-C-DR	NFKBIL1	31514647-31526606	6	2.05E-15
HDL-C-DR	LTA	31539831-31542101	6	4.25E-12
HDL-C-DR	LST1	31553901-31556686	6	5.00E-10
HDL-C-DR	NCR3	31556672-31560762	6	2.05E-12
HDL-C-DR	AIF1	31582961-31584798	6	5.00E-10
HDL-C-DR	PRRC2A	31588497-31605548	6	2.21E-14
HDL-C-DR	BAG6	31606805-31620482	6	1.83E-15
HDL-C-DR	APOM	31620193-31625987	6	5.00E-10
HDL-C-DR	C6orf47	31626075-31628549	6	1.24E-18
HDL-C-DR	GPANK1	31629006-31634060	6	2.04E-10
HDL-C-DR	CSNK2B	31633013-31638120	6	4.22E-15
HDL-C-DR	CSNK2B-LY6G5B-1181	31633879-31641323	6	3.22E-15
HDL-C-DR	LY6G5B	31637944-31641553	6	5.00E-10
HDL-C-DR	LY6G5C	31644461-31651817	6	5.00E-10
HDL-C-DR	ABHD16A	31654726-31671221	6	1.51E-14
HDL-C-DR	XXbac-BPG32J3.20	31654739-31681849	6	2.83E-15
HDL-C-DR	LY6G6F	31674640-31685581	6	4.89E-15
HDL-C-DR	MEGT1	31674681-31685695	6	2.89E-15
HDL-C-DR	LY6G6E	31679548-31681842	6	1.09E-10
HDL-C-DR	C6orf25	31686371-31694491	6	5.04E-14
HDL-C-DR	LY6G6C	31686425-31689622	6	6.65E-11
HDL-C-DR	DDAH2	31694815-31698394	6	1.18E-06
HDL-C-DR	CLIC1	31698358-31707540	6	1.00E-11
HDL-C-DR	MSH5	31707725-31732622	6	1.29E-11

HDL-C-DR	MSH5-SAPCD1	31707797-31732628	6	1.29E-11
HDL-C-DR	VWA7	31733367-31745108	6	7.49E-15
HDL-C-DR	VAR5	31745295-31763730	6	3.57E-14
HDL-C-DR	LSM2	31765173-31774761	6	5.00E-10
HDL-C-DR	HSPA1L	31777396-31783437	6	5.00E-10
HDL-C-DR	HSPA1B	31795512-31798031	6	2.48E-11
HDL-C-DR	C6orf48	31802385-31807541	6	5.00E-10
HDL-C-DR	NEU1	31825436-31830683	6	5.00E-10
HDL-C-DR	SLC44A4	31830969-31846823	6	2.22E-16
HDL-C-DR	EHMT2	31847536-31865464	6	6.61E-15
HDL-C-DR	C2	31865562-31913449	6	6.16E-15
HDL-C-DR	ZBTB12	31867384-31869769	6	1.10E-13
HDL-C-DR	CFB	31895475-31919825	6	2.05E-15
HDL-C-DR	CFB	31895475-31919861	6	1.89E-15
HDL-C-DR	NELFE	31919864-31926887	6	2.83E-15
HDL-C-DR	SKIV2L	31926857-31937532	6	1.49E-11
HDL-C-DR	DXO	31937587-31940069	6	1.33E-10
HDL-C-DR	STK19	31938868-31950598	6	7.77E-16
HDL-C-DR	CYP21A2	32006042-32009447	6	6.11E-16
HDL-C-DR	TNXB	32008931-32083111	6	4.22E-15
HDL-C-DR	ATF6B	32065953-32096030	6	1.78E-15
HDL-C-DR	PRRT1	32116136-32122150	6	5.00E-10
HDL-C-DR	PPT2	32121218-32134011	6	5.27E-15
HDL-C-DR	PPT2-EGFL8	32121622-32139755	6	3.33E-15
HDL-C-DR	EGFL8	32132360-32136058	6	4.95E-09
HDL-C-DR	AGPAT1	32135989-32145873	6	4.44E-15
HDL-C-DR	RNF5	32146131-32151930	6	5.00E-10
HDL-C-DR	AGER	32148745-32152101	6	1.15E-13
HDL-C-DR	PBX2	32152512-32157963	6	5.00E-10
HDL-C-DR	GPSM3	32158543-32163300	6	1.52E-10
HDL-C-DR	NOTCH4	32162620-32191844	6	5.00E-10

HDL-C-DR	C6orf10	32256303-32339684	6	3.91E-14
HDL-C-DR	BTNL2	32361740-32374905	6	5.00E-10
HDL-C-DR	HLA-DRA	32407619-32412823	6	1.05E-14
HDL-C-DR	HLA-DQA1	32595956-32614839	6	3.43E-14
HDL-C-DR	HLA-DQB1	32627244-32636160	6	5.00E-10
HDL-C-DR	HLA-DQA2	32709119-32714992	6	5.00E-10
HDL-C-DR	HLA-DQB2	32723875-32731311	6	1.11E-10
HDL-C-DR	HLA-DOB	32780540-32784825	6	1.33E-15
HDL-C-DR	TAP2	32781544-32806599	6	2.74E-14
HDL-C-DR	TAP2	32789610-32806557	6	5.00E-10
HDL-C-DR	PSMB8	32808494-32812480	6	5.00E-10
HDL-C-DR	PSMB9	32811913-32827362	6	3.33E-15
HDL-C-DR	TAP1	32812986-32821755	6	3.33E-15
HDL-C-DR	HLA-DMB	32902406-32908847	6	1.44E-09
HDL-C-DR	XXbac-BPG181M17.5	32905141-32920899	6	1.58E-10
HDL-C-DR	HLA-DMA	32916390-32936871	6	1.66E-10
HDL-C-DR	BRD2	32936437-32949282	6	9.30E-12
HDL-C-DR	HLA-DPA1	33032346-33048552	6	3.66E-15
HDL-C-DR	HLA-DPB1	33043703-33054978	6	2.22E-10
HDL-C-DR	COL11A2	33130458-33160276	6	1.56E-12
HDL-C-DR	VPS52	33218049-33239824	6	7.13E-09
HDL-C-DR	SYNGAP1	33387847-33421466	6	4.69E-08
HDL-C-DR	BAK1	33540329-33548019	6	9.97E-14
HDL-C-DR	GGNBP1	33551515-33556803	6	4.22E-15
HDL-C-DR	ITPR3	33588142-33664351	6	2.55E-15
HDL-C-DR	IP6K3	33689444-33714762	6	5.00E-10
HDL-C-DR	LEMD2	33738979-33756913	6	5.00E-10
HDL-C-DR	MLN	33762450-33771788	6	5.00E-10
HDL-C-DR	HMGA1	34204650-34214008	6	7.06E-13
HDL-C-DR	C6orf1	34214157-34217247	6	3.06E-10
HDL-C-DR	NUDT3	34247456-34360451	6	1.22E-13

HDL-C-DR	RPS10-NUDT3	34256547-34393825	6	4.88E-09
HDL-C-DR	RPS10	34385231-34393902	6	1.59E-14
HDL-C-DR	PACSIN1	34433916-34503006	6	5.00E-10
HDL-C-DR	SPDEF	34505579-34524110	6	5.00E-10
HDL-C-DR	C6orf106	34555065-34664636	6	5.00E-10
HDL-C-DR	SNRPC	34725183-34741571	6	1.21E-09
HDL-C-DR	UHRF1BP1	34759857-34850915	6	3.12E-13
HDL-C-DR	ANKS1A	34857042-35059179	6	1.05E-15
HDL-C-DR	TCP11	35085848-35116387	6	5.00E-10
HDL-C-DR	ZNF76	35226686-35263762	6	5.21E-15
HDL-C-DR	PPARD	35310335-35395968	6	1.58E-09
HDL-C-DR	FKBP5	35541362-35696360	6	1.67E-08
HDL-C-DR	GSTA2	52614897-52628367	6	2.55E-05
HDL-C-DR	RSPO3	127439749-127518910	6	0.00012884
HDL-C-DR	RAC1	6414154-6443608	7	6.40E-11
HDL-C-DR	DAGLB	6448757-6523821	7	8.12E-11
HDL-C-DR	KDELR2	6485584-6523873	7	4.19E-06
HDL-C-DR	TMEM106B	12250867-12282993	7	1.06E-08
HDL-C-DR	BAZ1B	72854728-72936608	7	2.57E-11
HDL-C-DR	BCL7B	72950686-72972332	7	5.00E-10
HDL-C-DR	TBL2	72983262-72993121	7	2.58E-12
HDL-C-DR	MLXIPL	73007524-73038873	7	1.54E-10
HDL-C-DR	WBSCR22	73097355-73119491	7	3.06E-09
HDL-C-DR	STX1A	73113536-73134002	7	1.97E-12
HDL-C-DR	AOC1	150521715-150558592	7	1.26E-11
HDL-C-DR	CSGALNACT1	19261672-19615540	8	1.55E-15
HDL-C-DR	LPL	19759228-19824769	8	1.30E-14
HDL-C-DR	SLC18A1	20002366-20040717	8	3.80E-12
HDL-C-DR	ATP6V1B2	20054878-20084330	8	3.69E-10
HDL-C-DR	TRPS1	116420724-116821899	8	3.97E-11
HDL-C-DR	TRIB1	126442563-126450647	8	4.40E-08

HDL-C-DR	GLIS3	3824127-4348392	9	1.93E-08
HDL-C-DR	TTC39B	15163620-15307358	9	5.00E-10
HDL-C-DR	ABCA1	107543283-107690518	9	5.00E-10
HDL-C-DR	ALOX5	45869661-45941561	10	2.55E-08
HDL-C-DR	ERLIN1	101909851-101948091	10	1.10E-07
HDL-C-DR	CHUK	101948055-101989376	10	3.70E-08
HDL-C-DR	CWF19L1	101992055-102027437	10	1.72E-05
HDL-C-DR	GPAM	113909624-113975135	10	1.38E-08
HDL-C-DR	INS-IGF2	2153768-2182439	11	1.42E-08
HDL-C-DR	INS	2181009-2182571	11	1.42E-08
HDL-C-DR	TH	2185159-2193107	11	1.23E-06
HDL-C-DR	AMBRA1	46417964-46615675	11	5.00E-10
HDL-C-DR	ATG13	46638826-46696368	11	2.18E-09
HDL-C-DR	ARHGAP1	46698630-46722165	11	9.06E-09
HDL-C-DR	ZNF408	46722368-46727462	11	3.39E-13
HDL-C-DR	F2	46740730-46761056	11	4.28E-09
HDL-C-DR	CKAP5	46764598-46867847	11	3.84E-12
HDL-C-DR	LRP4	46878419-46940193	11	1.88E-11
HDL-C-DR	C11orf49	46958240-47185936	11	3.53E-07
HDL-C-DR	DDB2	47236493-47260767	11	6.12E-10
HDL-C-DR	ACP2	47260853-47270457	11	2.17E-09
HDL-C-DR	NR1H3	47269851-47290396	11	1.29E-12
HDL-C-DR	MADD	47290712-47351582	11	1.08E-13
HDL-C-DR	MYBPC3	47352957-47374253	11	3.82E-11
HDL-C-DR	SPI1	47376411-47400127	11	1.24E-11
HDL-C-DR	SLC39A13	47428683-47438047	11	5.00E-10
HDL-C-DR	PSMC3	47440320-47447993	11	1.27E-08
HDL-C-DR	RAPSN	47459308-47470730	11	5.00E-10
HDL-C-DR	CELF1	47487496-47587121	11	3.29E-09
HDL-C-DR	AGBL2	47681143-47736941	11	2.26E-09
HDL-C-DR	MYRF	61520114-61555990	11	2.07E-10

HDL-C-DR	TMEM258	61535973-61560274	11	3.05E-10
HDL-C-DR	FEN1	61560109-61564716	11	2.46E-08
HDL-C-DR	FADS2	61560452-61634826	11	1.83E-10
HDL-C-DR	FADS1	61567099-61596790	11	9.73E-08
HDL-C-DR	MACROD1	63766030-63933578	11	8.28E-10
HDL-C-DR	FLRT1	63870660-63886645	11	2.46E-08
HDL-C-DR	STIP1	63952744-63972015	11	1.60E-08
HDL-C-DR	FERMT3	63974150-63991354	11	1.53E-08
HDL-C-DR	SIPA1	65405568-65418401	11	5.00E-10
HDL-C-DR	CPT1A	68522088-68611878	11	2.22E-08
HDL-C-DR	IGHMBP2	68671310-68708070	11	2.73E-08
HDL-C-DR	DGAT2	75470557-75512579	11	1.06E-09
HDL-C-DR	UVRAG	75526212-75854239	11	4.54E-09
HDL-C-DR	BUD13	116618886-116643704	11	5.00E-10
HDL-C-DR	ZNF259	116648436-116658766	11	1.11E-16
HDL-C-DR	APOA5	116660083-116663136	11	7.33E-28
HDL-C-DR	APOA4	116691419-116694022	11	3.44E-10
HDL-C-DR	APOC3	116700422-116703788	11	6.07E-24
HDL-C-DR	APOA1	116706467-116708666	11	3.29E-15
HDL-C-DR	SIK3	116714118-116969153	11	2.16E-15
HDL-C-DR	PAFAH1B2	117014983-117047610	11	1.06E-10
HDL-C-DR	SIDT2	117049449-117068160	11	5.00E-10
HDL-C-DR	TAGLN	117070037-117075498	11	5.00E-10
HDL-C-DR	PCSK7	117075053-117103241	11	2.36E-09
HDL-C-DR	RNF214	117103341-117157161	11	5.00E-10
HDL-C-DR	BACE1	117156402-117186975	11	4.76E-34
HDL-C-DR	CEP164	117185273-117283984	11	1.68E-09
HDL-C-DR	LPAR5	6728001-6745613	12	5.00E-10
HDL-C-DR	RAB5B	56367697-56388490	12	9.98E-13
HDL-C-DR	SUOX	56390964-56400425	12	1.69E-08
HDL-C-DR	IKZF4	56401443-56432219	12	1.31E-07

HDL-C-DR	ERBB3	56473641-56497289	12	4.46E-14
HDL-C-DR	ESYT1	56512034-56538455	12	4.03E-06
HDL-C-DR	RP11-123K3.4	57643392-57690267	12	4.61E-08
HDL-C-DR	R3HDM2	57643392-57824788	12	4.54E-08
HDL-C-DR	MYO1H	109785708-109893328	12	6.29E-09
HDL-C-DR	KCTD10	109886461-109915349	12	7.91E-06
HDL-C-DR	UBE3B	109915207-109974507	12	1.36E-05
HDL-C-DR	MMAB	109991542-110011679	12	5.99E-09
HDL-C-DR	MVK	110011060-110035067	12	1.33E-08
HDL-C-DR	CUX2	111471828-111788358	12	3.08E-11
HDL-C-DR	FAM109A	111798455-111806925	12	5.76E-10
HDL-C-DR	SH2B3	111843752-111889427	12	5.00E-10
HDL-C-DR	ATXN2	111890018-112037480	12	2.44E-10
HDL-C-DR	BRAP	112079950-112123790	12	4.10E-22
HDL-C-DR	ACAD10	112123857-112194903	12	5.18E-16
HDL-C-DR	RP11-162P23.2	112191694-112229222	12	1.04E-21
HDL-C-DR	NAA25	112464500-112546826	12	2.64E-19
HDL-C-DR	HECTD4	112597992-112819896	12	2.26E-19
HDL-C-DR	PTPN11	112856155-112947717	12	5.00E-10
HDL-C-DR	RPH3A	113008184-113336686	12	1.44E-13
HDL-C-DR	HNF1A	121416346-121440315	12	5.51E-12
HDL-C-DR	C12orf43	121440225-121454305	12	8.70E-11
HDL-C-DR	OASL	121458095-121477045	12	2.96E-09
HDL-C-DR	SBNO1	123773656-123849390	12	1.11E-10
HDL-C-DR	RILPL2	123899936-123921264	12	5.85E-10
HDL-C-DR	ATP6V0A2	124196865-124246302	12	1.23E-08
HDL-C-DR	DNAH10	124247042-124420753	12	4.45E-10
HDL-C-DR	ZNF664	124456392-124499986	12	1.44E-07
HDL-C-DR	FAM101A	124457788-124800570	12	5.55E-17
HDL-C-DR	SCARB1	125261402-125367214	12	1.78E-15
HDL-C-DR	NRXN3	78708734-80330762	14	4.90E-10

HDL-C-DR	WARS	100800125-100843142	14	4.57E-09
HDL-C-DR	WDR25	100842755-100996640	14	5.93E-09
HDL-C-DR	TRAF3	103243813-103377837	14	5.30E-11
HDL-C-DR	ALDH1A2	58245622-58790065	15	1.06E-13
HDL-C-DR	LIPC	58702768-58861151	15	5.00E-10
HDL-C-DR	FTO	53737875-54155853	16	5.05E-15
HDL-C-DR	GNAO1	56225302-56391356	16	5.02E-09
HDL-C-DR	AMFR	56395364-56459450	16	5.00E-10
HDL-C-DR	NUDT21	56463045-56486111	16	9.22E-10
HDL-C-DR	MT2A	56642111-56643409	16	1.93E-09
HDL-C-DR	MT1E	56659387-56661024	16	1.53E-09
HDL-C-DR	MT1H	56703726-56705041	16	2.87E-09
HDL-C-DR	NUP93	56764017-56878797	16	1.58E-14
HDL-C-DR	SLC12A3	56899119-56949762	16	5.83E-14
HDL-C-DR	HERPUD1	56965960-56977798	16	6.44E-15
HDL-C-DR	CETP	56995762-57017757	16	6.26E-14
HDL-C-DR	NLRC5	57023397-57117443	16	3.89E-15
HDL-C-DR	BEAN1	66461200-66527432	16	4.56E-08
HDL-C-DR	TK2	66541906-66586447	16	2.15E-08
HDL-C-DR	CCDC79	66788879-66835523	16	7.88E-09
HDL-C-DR	PDP2	66912492-66929657	16	2.54E-08
HDL-C-DR	CDH16	66942025-66952887	16	3.16E-10
HDL-C-DR	CES2	66968347-66978999	16	1.65E-07
HDL-C-DR	CES3	66995140-67009051	16	4.44E-11
HDL-C-DR	CES4A	67022492-67043661	16	5.00E-10
HDL-C-DR	CBFB	67063019-67134961	16	6.00E-15
HDL-C-DR	C16orf70	67143861-67182442	16	9.55E-15
HDL-C-DR	TRADD	67188083-67194201	16	5.00E-10
HDL-C-DR	HSF4	67197288-67203848	16	2.17E-20
HDL-C-DR	NOL3	67204057-67209643	16	5.00E-10
HDL-C-DR	KIAA0895L	67209505-67217943	16	5.92E-11

HDL-C-DR	EXOC3L1	67218269-67224107	16	5.00E-10
HDL-C-DR	E2F4	67226072-67232821	16	8.85E-11
HDL-C-DR	ELMO3	67233014-67237932	16	3.83E-11
HDL-C-DR	LRRC29	67241042-67260951	16	6.05E-15
HDL-C-DR	AC040160.1	67244251-67260930	16	3.35E-14
HDL-C-DR	TMEM208	67261006-67263181	16	4.33E-19
HDL-C-DR	FHOD1	67263290-67281561	16	1.45E-10
HDL-C-DR	SLC9A5	67271586-67306093	16	4.77E-15
HDL-C-DR	PLEKHG4	67311413-67323402	16	1.06E-10
HDL-C-DR	KCTD19	67323331-67360666	16	5.27E-15
HDL-C-DR	LRRC36	67360701-67419106	16	5.00E-10
HDL-C-DR	TPPP3	67423712-67427438	16	5.00E-10
HDL-C-DR	ZDHC1	67428322-67450736	16	5.00E-10
HDL-C-DR	ATP6V0D1	67471917-67515140	16	2.26E-11
HDL-C-DR	FAM65A	67552321-67580691	16	5.72E-15
HDL-C-DR	CTCF	67596310-67673086	16	5.00E-10
HDL-C-DR	RLTPR	67678822-67691472	16	2.26E-10
HDL-C-DR	ACD	67691415-67694713	16	5.00E-10
HDL-C-DR	ENKD1	67696848-67701168	16	3.25E-22
HDL-C-DR	GFOD2	67708434-67753324	16	1.67E-15
HDL-C-DR	RANBP10	67757005-67840555	16	8.38E-11
HDL-C-DR	TSNAXIP1	67840668-67866051	16	5.00E-10
HDL-C-DR	CENPT	67862060-67881714	16	5.00E-10
HDL-C-DR	NUTF2	67880635-67906470	16	3.44E-15
HDL-C-DR	EDC4	67906926-67918406	16	5.00E-10
HDL-C-DR	NRN1L	67918708-67922758	16	5.00E-10
HDL-C-DR	PSKH1	67927175-67963581	16	2.06E-12
HDL-C-DR	CTRL	67961543-67966317	16	1.17E-31
HDL-C-DR	CTC-479C5.12	67963517-67969920	16	5.00E-10
HDL-C-DR	LCAT	67973653-67978034	16	5.00E-10
HDL-C-DR	SLC12A4	67977377-68003504	16	1.37E-11

HDL-C-DR	DPEP3	68009566-68014732	16	5.00E-10
HDL-C-DR	DPEP2	68021297-68034489	16	1.33E-12
HDL-C-DR	DUS2	68021649-68113223	16	7.71E-11
HDL-C-DR	NFATC3	68118654-68263162	16	5.00E-10
HDL-C-DR	ESRP2	68263014-68272005	16	5.00E-10
HDL-C-DR	PLA2G15	68279207-68294961	16	4.66E-15
HDL-C-DR	SLC7A6	68298433-68335722	16	5.00E-10
HDL-C-DR	SLC7A6OS	68318406-68344849	16	5.05E-14
HDL-C-DR	PRMT7	68344877-68392466	16	3.76E-09
HDL-C-DR	SMPD3	68392231-68482591	16	7.83E-15
HDL-C-DR	ZFP90	68563993-68609975	16	2.35E-07
HDL-C-DR	CDH3	68670092-68756519	16	2.97E-10
HDL-C-DR	CDH1	68771128-68869451	16	2.11E-07
HDL-C-DR	TANGO6	68877507-69119083	16	3.28E-08
HDL-C-DR	CMIP	81478775-81745367	16	1.06E-10
HDL-C-DR	FBXL20	37415384-37558776	17	1.73E-07
HDL-C-DR	MED1	37560538-37607539	17	1.71E-06
HDL-C-DR	CDK12	37617764-37721160	17	7.47E-08
HDL-C-DR	STARD3	37793318-37819737	17	1.17E-08
HDL-C-DR	TCAP	37820440-37822808	17	1.39E-08
HDL-C-DR	PNMT	37824234-37826728	17	4.86E-09
HDL-C-DR	PGAP3	37827375-37853050	17	3.48E-08
HDL-C-DR	IKZF3	37921198-38020441	17	1.69E-05
HDL-C-DR	GSDMB	38060848-38076107	17	6.01E-05
HDL-C-DR	ORMDL3	38077294-38083854	17	4.83E-08
HDL-C-DR	LRRC3C	38097727-38101000	17	3.76E-08
HDL-C-DR	GSDMA	38119226-38134019	17	0.00018687
HDL-C-DR	MEOX1	41717756-41739322	17	5.00E-10
HDL-C-DR	CD300LG	41924516-41940997	17	6.17E-21
HDL-C-DR	MPP2	41952725-41987068	17	5.00E-10
HDL-C-DR	PYY	42030106-42081837	17	1.63E-17

HDL-C-DR	HDAC5	42154114-42201070	17	5.00E-10
HDL-C-DR	C17orf53	42219274-42239844	17	1.42E-08
HDL-C-DR	SLC4A1	42325753-42345509	17	1.09E-15
HDL-C-DR	CALCOCO2	46908350-46943884	17	8.61E-09
HDL-C-DR	ATP5G1	46970127-46973233	17	2.98E-08
HDL-C-DR	SNF8	47006678-47022479	17	4.92E-08
HDL-C-DR	GIP	47035916-47045958	17	3.23E-08
HDL-C-DR	IGF2BP1	47074774-47133012	17	4.29E-09
HDL-C-DR	ABCA8	66863433-66951533	17	3.14E-11
HDL-C-DR	C18orf8	21083473-21111746	18	2.39E-08
HDL-C-DR	NPC1	21086148-21166862	18	1.27E-08
HDL-C-DR	DYM	46570039-46987717	18	1.25E-14
HDL-C-DR	RPL17-C18orf32	47008051-47017956	18	3.17E-08
HDL-C-DR	RPL17	47014851-47018906	18	3.17E-08
HDL-C-DR	LIPG	47087069-47119272	18	1.94E-15
HDL-C-DR	ACAA2	47309869-47340330	18	1.60E-08
HDL-C-DR	RP11-886H22.1	47322163-47363993	18	5.00E-10
HDL-C-DR	MYO5B	47349183-47721463	18	4.52E-09
HDL-C-DR	AC010336.1	7963689-7968427	19	4.39E-10
HDL-C-DR	MAP2K7	7968728-7979363	19	6.78E-10
HDL-C-DR	ANGPTL4	8428173-8439257	19	5.00E-10
HDL-C-DR	MYO1F	8585674-8642461	19	2.69E-08
HDL-C-DR	SPC24	11242196-11266484	19	1.06E-07
HDL-C-DR	DOCK6	11309971-11373157	19	2.45E-09
HDL-C-DR	C19orf80	11348178-11352619	19	3.45E-11
HDL-C-DR	PEPD	33877856-34012700	19	2.59E-09
HDL-C-DR	BCAM	45312328-45324673	19	1.29E-08
HDL-C-DR	PVRL2	45349432-45392485	19	5.00E-10
HDL-C-DR	TOMM40	45393826-45406946	19	5.00E-10
HDL-C-DR	APOE	45409011-45412650	19	5.00E-10
HDL-C-DR	APOC1	45417504-45422606	19	5.00E-10

HDL-C-DR	APOC4	45445495-45452820	19	9.27E-07
HDL-C-DR	APOC4-APOC2	45445495-45452822	19	9.27E-07
HDL-C-DR	APOC2	45449243-45452822	19	5.00E-10
HDL-C-DR	CTB-129P6.11	45453301-45457264	19	4.23E-10
HDL-C-DR	CLPTM1	45457842-45496599	19	1.45E-09
HDL-C-DR	GEMIN7	45582453-45594782	19	1.92E-08
HDL-C-DR	MARK4	45582546-45808541	19	1.92E-08
HDL-C-DR	EML2	46110252-46148887	19	2.03E-10
HDL-C-DR	GIPR	46171502-46186982	19	1.37E-08
HDL-C-DR	QPCTL	46195741-46207247	19	3.48E-07
HDL-C-DR	FBXO46	46213887-46234162	19	3.81E-08
HDL-C-DR	LILRA3	54799854-54809952	19	5.00E-10
HDL-C-DR	LILRA5	54818353-54824409	19	2.27E-05
HDL-C-DR	RALY	32581452-32696114	20	1.18E-06
HDL-C-DR	EIF2S2	32676104-32700138	20	5.85E-08
HDL-C-DR	ASIP	32782375-32857150	20	4.09E-08
HDL-C-DR	NCOA6	33284722-33413452	20	1.69E-09
HDL-C-DR	TP53INP2	33292094-33301243	20	2.82E-06
HDL-C-DR	GGT7	33432523-33460663	20	2.12E-07
HDL-C-DR	ACSS2	33459949-33515769	20	4.13E-08
HDL-C-DR	GSS	33516236-33543620	20	4.40E-08
HDL-C-DR	EDEM2	33703167-33865928	20	2.11E-06
HDL-C-DR	PROCR	33759876-33765165	20	8.39E-09
HDL-C-DR	HNF4A	42984340-43061485	20	3.79E-08
HDL-C-DR	ZSWIM3	44486256-44507761	20	4.68E-08
HDL-C-DR	PLTP	44527399-44540794	20	5.00E-10
HDL-C-DR	PCIF1	44563267-44576662	20	5.00E-10
HDL-C-DR	ZNF335	44577292-44600833	20	2.16E-15
HDL-C-DR	MMP9	44637547-44645200	20	1.97E-11
HDL-C-DR	SLC12A5	44650356-44688784	20	1.07E-09
HDL-C-DR	ITGB2	46305868-46351904	21	4.93E-08

HDL-C-DR	COL18A1	46825052-46933634	21	1.70E-06
HDL-C-DR	SLC19A1	46913486-46964325	21	2.43E-08
HDL-C-DR	UBE2L3	21903736-21978323	22	3.15E-09
TG-DKD	MACF1	39546988-39952849	1	3.59E-08
TG-DKD	PABPC4	40026488-40042462	1	1.57E-08
TG-DKD	SSBP3	54691105-54879152	1	7.64E-10
TG-DKD	DOCK7	62920399-63153969	1	8.39E-10
TG-DKD	ATG4C	63249806-63331184	1	1.25E-08
TG-DKD	MAGI3	113933371-114228545	1	4.21E-08
TG-DKD	PTPN22	114356433-114414381	1	7.93E-10
TG-DKD	GALNT2	230193536-230417870	1	8.56E-09
TG-DKD	APOB	21224301-21266945	2	1.19E-12
TG-DKD	TDRD15	21346789-21366144	2	2.53E-09
TG-DKD	DPYSL5	27070615-27173219	2	5.00E-10
TG-DKD	MAPRE3	27193480-27250064	2	4.49E-11
TG-DKD	PREB	27353624-27357543	2	2.92E-13
TG-DKD	SLC5A6	27422455-27435826	2	1.47E-11
TG-DKD	ATRAID	27434895-27440046	2	2.57E-10
TG-DKD	CAD	27440258-27466811	2	5.58E-14
TG-DKD	SLC30A3	27476552-27498685	2	1.05E-15
TG-DKD	DNAJC5G	27498289-27504367	2	5.28E-12
TG-DKD	TRIM54	27505260-27530307	2	4.32E-14
TG-DKD	MPV17	27532360-27548547	2	3.12E-12
TG-DKD	GTF3C2	27548716-27579868	2	7.49E-15
TG-DKD	EIF2B4	27587219-27593353	2	4.89E-15
TG-DKD	SNX17	27593389-27599995	2	5.00E-10
TG-DKD	ZNF513	27600098-27603657	2	1.00E-50
TG-DKD	PPM1G	27604061-27632554	2	5.00E-10
TG-DKD	NRBP1	27650657-27665126	2	9.02E-12
TG-DKD	KRTCAP3	27665233-27669348	2	5.00E-10
TG-DKD	IFT172	27667238-27712656	2	1.19E-14

TG-DKD	FNDC4	27714750-27718112	2	5.00E-10
TG-DKD	GCKR	27719709-27746554	2	1.35E-14
TG-DKD	AC109829.1	27760253-27790011	2	5.00E-10
TG-DKD	C2orf16	27799389-27805588	2	5.00E-10
TG-DKD	ZNF512	27805897-27858041	2	2.59E-11
TG-DKD	CCDC121	27848506-27851879	2	5.00E-10
TG-DKD	GPN1	27851114-27874375	2	7.33E-15
TG-DKD	SUPT7L	27873679-27886676	2	2.86E-08
TG-DKD	SLC4A1AP	27886338-27917840	2	3.64E-11
TG-DKD	AC074091.13	27928653-27938599	2	5.00E-10
TG-DKD	MRPL33	27994584-28210954	2	2.43E-12
TG-DKD	AC110084.1	27998851-28009186	2	1.12E-11
TG-DKD	RBKS	28004231-28113965	2	1.36E-11
TG-DKD	BRE	28112808-28561768	2	5.00E-10
TG-DKD	ACOXL	111490150-111875799	2	2.68E-09
TG-DKD	BCL2L11	111876955-111926024	2	4.18E-09
TG-DKD	COBLL1	165510134-165700189	2	4.93E-13
TG-DKD	SLC38A11	165752696-165812035	2	2.31E-06
TG-DKD	TIMP4	12194551-12200851	3	5.00E-10
TG-DKD	PPARG	12328867-12475855	3	3.03E-09
TG-DKD	TNFSF10	172223298-172241297	3	2.24E-08
TG-DKD	HGFAC	3443614-3451211	4	3.99E-10
TG-DKD	DOK7	3465033-3503200	4	4.26E-08
TG-DKD	AFF1	87856154-88062206	4	1.29E-09
TG-DKD	KLHL8	88081255-88161466	4	6.09E-09
TG-DKD	PDGFC	157681606-157892546	4	1.29E-08
TG-DKD	AC022431.2	55807394-55902059	5	3.15E-09
TG-DKD	SGCD	155297354-156194799	5	2.80E-08
TG-DKD	TIMD4	156346293-156390266	5	2.89E-09
TG-DKD	HAVCR1	156456424-156486130	5	4.58E-08
TG-DKD	CDKAL1	20534688-21232635	6	3.82E-08

TG-DKD	BTN3A1	26402465-26415444	6	1.35E-12
TG-DKD	BTN3A3	26440700-26453643	6	1.12E-12
TG-DKD	BTN2A1	26458150-26476849	6	3.05E-08
TG-DKD	BTN1A1	26501449-26510650	6	4.88E-09
TG-DKD	ABT1	26597180-26600278	6	4.05E-12
TG-DKD	ZNF322	26636518-26659980	6	1.84E-12
TG-DKD	POM121L2	27253682-27279949	6	7.18E-14
TG-DKD	ZNF391	27342394-27371683	6	5.00E-10
TG-DKD	ZNF184	27418522-27440897	6	2.88E-10
TG-DKD	HIST1H2BL	27775257-27775709	6	5.00E-10
TG-DKD	HIST1H2AJ	27782112-27782607	6	2.74E-12
TG-DKD	HIST1H2BN	27806323-27823487	6	4.34E-13
TG-DKD	HIST1H2AL	27833034-27833606	6	1.75E-12
TG-DKD	HIST1H1B	27834570-27835359	6	8.73E-08
TG-DKD	HIST1H4L	27840926-27841289	6	1.66E-13
TG-DKD	HIST1H3J	27858093-27860884	6	5.00E-10
TG-DKD	OR2B2	27878963-27880174	6	3.70E-14
TG-DKD	ZKSCAN8	28109688-28127250	6	9.40E-14
TG-DKD	ZSCAN9	28192664-28201260	6	8.79E-14
TG-DKD	ZKSCAN4	28212401-28227011	6	5.00E-10
TG-DKD	PGBD1	28249314-28270326	6	1.48E-08
TG-DKD	ZSCAN31	28292470-28324048	6	5.00E-10
TG-DKD	ZKSCAN3	28317691-28336947	6	9.78E-14
TG-DKD	ZSCAN12	28346732-28367511	6	3.63E-14
TG-DKD	GPX6	28471073-28495992	6	2.70E-14
TG-DKD	SCAND3	28539407-28583989	6	5.00E-10
TG-DKD	TRIM27	28870779-28891766	6	2.56E-13
TG-DKD	OR5V1	29323007-29399744	6	2.68E-10
TG-DKD	OR12D3	29341200-29343068	6	1.46E-12
TG-DKD	OR11A1	29393281-29424848	6	5.00E-10
TG-DKD	UBD	29523292-29527702	6	3.10E-15

TG-DKD	GABBR1	29523406-29601753	6	1.70E-11
TG-DKD	ZNRD1	30026676-30032686	6	7.22E-20
TG-DKD	RNF39	30038043-30043664	6	5.00E-10
TG-DKD	TRIM31	30070674-30080883	6	4.44E-15
TG-DKD	TRIM10	30119722-30128711	6	5.00E-10
TG-DKD	TRIM15	30130993-30140473	6	5.00E-10
TG-DKD	TRIM26	30152232-30181204	6	5.00E-10
TG-DKD	TRIM39	30294256-30311506	6	5.00E-10
TG-DKD	TRIM39-RPP21	30297359-30314631	6	5.00E-10
TG-DKD	HLA-E	30457244-30461982	6	6.80E-09
TG-DKD	GNL1	30509154-30524951	6	4.64E-26
TG-DKD	ABCF1	30539153-30564956	6	4.57E-25
TG-DKD	ATAT1	30594619-30614600	6	5.00E-10
TG-DKD	C6orf136	30614816-30620987	6	8.47E-27
TG-DKD	PPP1R18	30644166-30655672	6	3.09E-27
TG-DKD	NRM	30655824-30659197	6	4.02E-27
TG-DKD	TUBB	30687978-30693203	6	4.06E-13
TG-DKD	FLOT1	30695486-30710510	6	5.00E-10
TG-DKD	DDR1	30844198-30867933	6	3.09E-11
TG-DKD	GTF2H4	30875961-30881883	6	5.00E-10
TG-DKD	VAR52	30876019-30894236	6	5.00E-10
TG-DKD	SFTA2	30899130-30899952	6	5.00E-10
TG-DKD	DPCR1	30908749-30921998	6	5.00E-10
TG-DKD	MUC21	30951495-30957680	6	1.63E-18
TG-DKD	MUC22	30978251-31003179	6	5.00E-10
TG-DKD	C6orf15	31079000-31080336	6	5.00E-10
TG-DKD	PSORS1C1	31082527-31107869	6	8.10E-15
TG-DKD	CDSN	31082867-31088223	6	1.90E-10
TG-DKD	PSORS1C2	31105313-31107127	6	6.22E-11
TG-DKD	CCHCR1	31110216-31126015	6	5.00E-10
TG-DKD	TCF19	31126319-31134936	6	5.00E-10

TG-DKD	POU5F1	31132119-31148508	6	5.00E-10
TG-DKD	HCG27	31165537-31171745	6	2.00E-13
TG-DKD	HLA-C	31236526-31239907	6	4.29E-08
TG-DKD	HLA-B	31321649-31324965	6	5.00E-10
TG-DKD	MICA	31371356-31383092	6	1.28E-15
TG-DKD	MICB	31462658-31478901	6	3.72E-15
TG-DKD	MCCD1	31496494-31498009	6	5.00E-10
TG-DKD	DDX39B	31497996-31510225	6	1.57E-13
TG-DKD	ATP6V1G2-DDX39B	31497996-31514385	6	5.00E-10
TG-DKD	ATP6V1G2	31512239-31516204	6	5.00E-10
TG-DKD	NFKBIL1	31514647-31526606	6	1.17E-15
TG-DKD	LTA	31539831-31542101	6	1.10E-10
TG-DKD	LST1	31553901-31556686	6	1.20E-15
TG-DKD	NCR3	31556672-31560762	6	7.88E-15
TG-DKD	AIF1	31582961-31584798	6	5.98E-12
TG-DKD	PRRC2A	31588497-31605548	6	5.00E-10
TG-DKD	BAG6	31606805-31620482	6	8.27E-15
TG-DKD	APOM	31620193-31625987	6	5.00E-10
TG-DKD	C6orf47	31626075-31628549	6	5.00E-10
TG-DKD	GPANK1	31629006-31634060	6	9.99E-16
TG-DKD	CSNK2B	31633013-31638120	6	1.67E-15
TG-DKD	CSNK2B-LY6G5B-1181	31633879-31641323	6	1.50E-15
TG-DKD	LY6G5B	31637944-31641553	6	5.00E-10
TG-DKD	LY6G5C	31644461-31651817	6	3.03E-10
TG-DKD	ABHD16A	31654726-31671221	6	5.00E-10
TG-DKD	XXbac-BPG32J3.20	31654739-31681849	6	5.00E-10
TG-DKD	LY6G6F	31674640-31685581	6	2.94E-15
TG-DKD	MEGT1	31674681-31685695	6	2.72E-15
TG-DKD	LY6G6E	31679548-31681842	6	1.99E-26
TG-DKD	C6orf25	31686371-31694491	6	9.63E-11
TG-DKD	LY6G6C	31686425-31689622	6	5.00E-10

TG-DKD	DDAH2	31694815-31698394	6	2.41E-10
TG-DKD	CLIC1	31698358-31707540	6	5.00E-10
TG-DKD	MSH5	31707725-31732622	6	1.11E-12
TG-DKD	MSH5-SAPCD1	31707797-31732628	6	2.60E-12
TG-DKD	VWA7	31733367-31745108	6	2.23E-13
TG-DKD	VAR5	31745295-31763730	6	7.61E-15
TG-DKD	LSM2	31765173-31774761	6	2.61E-15
TG-DKD	HSPA1L	31777396-31783437	6	5.28E-14
TG-DKD	HSPA1B	31795512-31798031	6	5.00E-10
TG-DKD	C6orf48	31802385-31807541	6	4.85E-14
TG-DKD	NEU1	31825436-31830683	6	5.00E-10
TG-DKD	SLC44A4	31830969-31846823	6	5.00E-10
TG-DKD	EHMT2	31847536-31865464	6	5.50E-15
TG-DKD	C2	31865562-31913449	6	5.00E-10
TG-DKD	ZBTB12	31867384-31869769	6	6.48E-14
TG-DKD	CFB	31895475-31919825	6	3.22E-15
TG-DKD	CFB	31895475-31919861	6	3.22E-15
TG-DKD	NELFE	31919864-31926887	6	4.89E-15
TG-DKD	SKIV2L	31926857-31937532	6	6.11E-16
TG-DKD	DXO	31937587-31940069	6	5.00E-10
TG-DKD	STK19	31938868-31950598	6	5.22E-15
TG-DKD	CYP21A2	32006042-32009447	6	1.39E-15
TG-DKD	TNXB	32008931-32083111	6	5.00E-10
TG-DKD	ATF6B	32065953-32096030	6	5.00E-16
TG-DKD	FKBPL	32096484-32098068	6	6.64E-09
TG-DKD	PRRT1	32116136-32122150	6	5.00E-10
TG-DKD	PPT2	32121218-32134011	6	8.33E-16
TG-DKD	PPT2-EGFL8	32121622-32139755	6	5.55E-16
TG-DKD	EGFL8	32132360-32136058	6	5.00E-10
TG-DKD	AGPAT1	32135989-32145873	6	5.66E-15
TG-DKD	RNF5	32146131-32151930	6	7.33E-15

TG-DKD	AGER	32148745-32152101	6	5.00E-10
TG-DKD	PBX2	32152512-32157963	6	3.05E-15
TG-DKD	GPSM3	32158543-32163300	6	5.00E-10
TG-DKD	NOTCH4	32162620-32191844	6	5.00E-10
TG-DKD	C6orf10	32256303-32339684	6	1.58E-12
TG-DKD	BTNL2	32361740-32374905	6	5.00E-10
TG-DKD	HLA-DRA	32407619-32412823	6	5.00E-10
TG-DKD	HLA-DQA1	32595956-32614839	6	1.44E-12
TG-DKD	HLA-DQB1	32627244-32636160	6	8.77E-15
TG-DKD	HLA-DQA2	32709119-32714992	6	1.18E-10
TG-DKD	HLA-DQB2	32723875-32731311	6	5.00E-10
TG-DKD	HLA-DOB	32780540-32784825	6	5.83E-15
TG-DKD	TAP2	32781544-32806599	6	2.51E-14
TG-DKD	TAP2	32789610-32806557	6	1.37E-14
TG-DKD	PSMB8	32808494-32812480	6	3.16E-12
TG-DKD	PSMB9	32811913-32827362	6	5.55E-17
TG-DKD	TAP1	32812986-32821755	6	2.22E-16
TG-DKD	HLA-DMB	32902406-32908847	6	5.00E-10
TG-DKD	XXbac-BPG181M17.5	32905141-32920899	6	5.00E-10
TG-DKD	HLA-DMA	32916390-32936871	6	1.11E-15
TG-DKD	BRD2	32936437-32949282	6	1.89E-15
TG-DKD	HLA-DOA	32971955-32977389	6	2.69E-12
TG-DKD	HLA-DPA1	33032346-33048552	6	3.52E-11
TG-DKD	HLA-DPB1	33043703-33054978	6	5.18E-11
TG-DKD	COL11A2	33130458-33160276	6	9.61E-11
TG-DKD	RXRB	33161365-33168630	6	2.02E-13
TG-DKD	VPS52	33218049-33239824	6	7.88E-09
TG-DKD	WDR46	33246885-33257304	6	4.83E-08
TG-DKD	ZBTB22	33282183-33285719	6	3.49E-08
TG-DKD	DAXX	33286335-33297046	6	3.16E-08
TG-DKD	SYNGAP1	33387847-33421466	6	1.91E-08

TG-DKD	GGNBP1	33551515-33556803	6	5.00E-10
TG-DKD	ITPR3	33588142-33664351	6	6.44E-09
TG-DKD	SLC22A3	160769300-160876014	6	1.54E-09
TG-DKD	SNX10	26331541-26413949	7	5.68E-08
TG-DKD	GCK	44183872-44237769	7	8.26E-09
TG-DKD	YKT6	44240567-44253893	7	2.75E-09
TG-DKD	CAMK2B	44256749-44374176	7	1.62E-08
TG-DKD	POM121	72349936-72421979	7	3.65E-08
TG-DKD	BAZ1B	72854728-72936608	7	5.00E-10
TG-DKD	BCL7B	72950686-72972332	7	1.66E-10
TG-DKD	TBL2	72983262-72993121	7	1.04E-12
TG-DKD	MLXIPL	73007524-73038873	7	8.04E-12
TG-DKD	VPS37D	73082155-73086442	7	2.04E-07
TG-DKD	DNAJC30	73095299-73097783	7	5.00E-10
TG-DKD	WBSCR22	73097355-73119491	7	2.22E-10
TG-DKD	STX1A	73113536-73134002	7	5.58E-13
TG-DKD	AOC1	150521715-150558592	7	2.76E-08
TG-DKD	NAT2	18248755-18258728	8	7.85E-10
TG-DKD	CSGALNACT1	19261672-19615540	8	7.62E-12
TG-DKD	INTS10	19674651-19709594	8	4.12E-08
TG-DKD	LPL	19759228-19824769	8	6.75E-13
TG-DKD	UBXN2B	59323823-59364060	8	4.22E-08
TG-DKD	TRIB1	126442563-126450647	8	4.00E-15
TG-DKD	NRBF2	64893050-64914783	10	8.94E-07
TG-DKD	JMJD1C	64926981-65225722	10	5.28E-10
TG-DKD	REEP3	65281123-65384883	10	1.44E-09
TG-DKD	IDE	94211441-94333833	10	4.95E-09
TG-DKD	KIF11	94353043-94415150	10	9.24E-07
TG-DKD	ACSL5	114133776-114188138	10	4.37E-10
TG-DKD	ZDHHC6	114190058-114206672	10	2.37E-10
TG-DKD	TCF7L2	114710009-114927437	10	1.62E-13

TG-DKD	INS-IGF2	2153768-2182439	11	4.69E-09
TG-DKD	INS	2181009-2182571	11	1.62E-06
TG-DKD	DAGLA	61447905-61514473	11	1.08E-08
TG-DKD	FADS2	61560452-61634826	11	7.48E-13
TG-DKD	FADS1	61567099-61596790	11	2.65E-08
TG-DKD	SIPA1	65405568-65418401	11	1.97E-09
TG-DKD	CPT1A	68522088-68611878	11	2.67E-05
TG-DKD	BUD13	116618886-116643704	11	5.00E-10
TG-DKD	ZNF259	116648436-116658766	11	1.94E-15
TG-DKD	APOA5	116660083-116663136	11	5.00E-10
TG-DKD	APOA4	116691419-116694022	11	5.00E-10
TG-DKD	APOC3	116700422-116703788	11	1.77E-13
TG-DKD	APOA1	116706467-116708666	11	5.00E-10
TG-DKD	SIK3	116714118-116969153	11	5.00E-10
TG-DKD	PAFAH1B2	117014983-117047610	11	4.16E-15
TG-DKD	SIDT2	117049449-117068160	11	5.00E-10
TG-DKD	TAGLN	117070037-117075498	11	2.44E-10
TG-DKD	PCSK7	117075053-117103241	11	7.77E-15
TG-DKD	RNF214	117103341-117157161	11	1.94E-11
TG-DKD	BACE1	117156402-117186975	11	1.01E-12
TG-DKD	CEP164	117185273-117283984	11	5.00E-10
TG-DKD	DSCAML1	117298489-117688240	11	1.07E-11
TG-DKD	CCND2	4382938-4414516	12	4.31E-30
TG-DKD	RP11-125O5.2	21200113-21329829	12	3.94E-08
TG-DKD	SLCO1B1	21284136-21392180	12	2.18E-11
TG-DKD	DNAH10	124247042-124420753	12	3.98E-12
TG-DKD	CCDC92	124403207-124457378	12	2.80E-07
TG-DKD	DNAH10OS	124410971-124419531	12	1.01E-07
TG-DKD	ZNF664	124456392-124499986	12	2.79E-05
TG-DKD	FAM101A	124457788-124800570	12	1.14E-11
TG-DKD	TTBK2	43030932-43213007	15	2.52E-08

TG-DKD	UBR1	43235095-43398311	15	5.00E-10
TG-DKD	TGM7	43568478-43594453	15	1.29E-13
TG-DKD	ADAL	43622872-43646096	15	6.53E-24
TG-DKD	TUBGCP4	43661419-43699293	15	6.45E-15
TG-DKD	TP53BP1	43699407-43802926	15	5.00E-10
TG-DKD	MAP1A	43803156-43823818	15	5.00E-10
TG-DKD	STRC	43891596-44010458	15	7.52E-17
TG-DKD	CATSPER2	43920701-43960316	15	7.52E-17
TG-DKD	PDIA3	44038590-44065477	15	6.64E-10
TG-DKD	FRMD5	44162962-44487450	15	8.83E-11
TG-DKD	CASC4	44580927-44707956	15	3.93E-16
TG-DKD	CTDSPL2	44719432-44821236	15	2.60E-15
TG-DKD	EIF3J	44829255-44855227	15	2.97E-14
TG-DKD	SPG11	44854894-44955876	15	5.00E-10
TG-DKD	ALDH1A2	58245622-58790065	15	4.77E-15
TG-DKD	LIPC	58702768-58861151	15	4.20E-14
TG-DKD	FTO	53737875-54155853	16	5.64E-12
TG-DKD	CETP	56995762-57017757	16	8.75E-10
TG-DKD	CD300LG	41924516-41940997	17	1.58E-18
TG-DKD	MPP2	41952725-41987068	17	8.75E-09
TG-DKD	SLC4A1	42325753-42345509	17	3.83E-16
TG-DKD	VMP1	57784553-57919616	17	1.25E-06
TG-DKD	TUBD1	57936851-57970304	17	4.44E-08
TG-DKD	BPTF	65821640-65980494	17	7.71E-12
TG-DKD	C17orf58	65987217-65989765	17	7.11E-12
TG-DKD	KPNA2	66031635-66042958	17	1.23E-10
TG-DKD	C18orf8	21083473-21111746	18	3.71E-08
TG-DKD	NPC1	21086148-21166862	18	7.36E-06
TG-DKD	INSR	7112266-7294045	19	7.76E-09
TG-DKD	ANGPTL4	8428173-8439257	19	5.00E-10
TG-DKD	MYO1F	8585674-8642461	19	2.20E-08

TG-DKD	SUGP2	19101697-19144832	19	3.18E-09
TG-DKD	ARMC6	19144384-19170563	19	6.11E-14
TG-DKD	SLC25A42	19174808-19223697	19	1.74E-14
TG-DKD	MEF2BNB-MEF2B	19256376-19302967	19	1.85E-09
TG-DKD	MEF2B	19256377-19303400	19	1.85E-09
TG-DKD	MEF2BNB	19287712-19303400	19	1.62E-05
TG-DKD	NCAN	19322782-19363042	19	5.00E-10
TG-DKD	HAPLN4	19366450-19373605	19	2.97E-27
TG-DKD	TM6SF2	19375173-19384200	19	5.00E-10
TG-DKD	SUGP1	19386827-19431653	19	5.00E-10
TG-DKD	MAU2	19431490-19469563	19	3.48E-13
TG-DKD	GATAD2A	19496635-19619740	19	5.22E-15
TG-DKD	NDUFA13	19626545-19644285	19	1.03E-12
TG-DKD	CTC-260F20.3	19627036-19646885	19	1.03E-12
TG-DKD	YJEFN3	19627036-19648390	19	1.03E-12
TG-DKD	PBX4	19672522-19729725	19	8.94E-11
TG-DKD	GMIP	19740285-19754476	19	9.21E-19
TG-DKD	ATP13A1	19756007-19774502	19	5.13E-24
TG-DKD	ZNF101	19779605-19794318	19	5.00E-10
TG-DKD	ZNF14	19821280-19843906	19	5.45E-16
TG-DKD	ZNF253	19976695-20005483	19	6.32E-09
TG-DKD	PEPD	33877856-34012700	19	6.80E-08
TG-DKD	CBLC	45281126-45303891	19	1.06E-10
TG-DKD	BCAM	45312328-45324673	19	1.77E-08
TG-DKD	PVRL2	45349432-45392485	19	6.61E-15
TG-DKD	TOMM40	45393826-45406946	19	5.00E-10
TG-DKD	APOE	45409011-45412650	19	5.00E-10
TG-DKD	APOC1	45417504-45422606	19	7.22E-16
TG-DKD	APOC4	45445495-45452820	19	6.87E-05
TG-DKD	APOC4-APOC2	45445495-45452822	19	6.87E-05
TG-DKD	APOC2	45449243-45452822	19	6.87E-05

TG-DKD	CTB-129P6.11	45453301-45457264	19	5.42E-09
TG-DKD	CLPTM1	45457842-45496599	19	5.30E-06
TG-DKD	RELB	45504688-45541452	19	5.95E-13
TG-DKD	MAMSTR	49215999-49222978	19	1.28E-05
TG-DKD	RASIP1	49223844-49243978	19	1.91E-09
TG-DKD	IZUMO1	49244109-49250166	19	4.90E-08
TG-DKD	FGF21	49258816-49261587	19	2.92E-10
TG-DKD	SNX21	44462449-44471914	20	3.38E-08
TG-DKD	ZSWIM3	44486256-44507761	20	5.00E-10
TG-DKD	PLTP	44527399-44540794	20	7.64E-08
TG-DKD	PCIF1	44563267-44576662	20	5.26E-10
TG-DKD	ZNF335	44577292-44600833	20	2.40E-07
TG-DKD	MMP9	44637547-44645200	20	6.80E-14
TG-DKD	THOC5	29901868-29951205	22	5.45E-10
TG-DKD	NIPSNAP1	29950797-29977326	22	2.86E-06
TG-DKD	NF2	29999545-30094587	22	6.59E-09
TG-DKD	PPARA	46546424-46639653	22	4.70E-08
TG-DKD	TTC38	46663858-46689905	22	2.93E-07
TG-DKD	GTSE1	46692638-46726707	22	4.47E-09
TG-DKD	TRMU	46726772-46753237	22	2.25E-08
TG-DKD	CELSR1	46756731-46933067	22	3.31E-09
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TG-DR	DOCK7	62920399-63153969	1	9.57E-09
TG-DR	AL138847.1	63073437-63075249	1	1.43E-08
TG-DR	MAGI3	113933371-114228545	1	9.40E-12
TG-DR	PTPN22	114356433-114414381	1	8.19E-14
TG-DR	GALNT2	230193536-230417870	1	5.00E-10

TG-DR	APOB	21224301-21266945	2	2.11E-15
TG-DR	KCNK3	26915619-26956288	2	1.75E-10
TG-DR	SLC35F6	26987152-27004099	2	5.00E-10
TG-DR	CENPA	26987157-27023935	2	3.31E-12
TG-DR	DPYSL5	27070615-27173219	2	7.22E-16
TG-DR	MAPRE3	27193480-27250064	2	1.41E-10
TG-DR	AGBL5	27265232-27293490	2	1.71E-08
TG-DR	OST4	27293340-27294641	2	4.34E-08
TG-DR	EMILIN1	27301435-27309271	2	1.34E-08
TG-DR	KHK	27309615-27323640	2	2.13E-10
TG-DR	CGREF1	27321757-27341995	2	1.11E-11
TG-DR	PREB	27353624-27357543	2	5.00E-10
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TG-DR	SLC30A3	27476552-27498685	2	7.83E-15
TG-DR	DNAJC5G	27498289-27504367	2	3.23E-13
TG-DR	TRIM54	27505260-27530307	2	1.06E-10
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TG-DR	PPM1G	27604061-27632554	2	7.83E-11
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TG-DR	IFT172	27667238-27712656	2	1.58E-12
TG-DR	FNDC4	27714750-27718112	2	5.00E-10
TG-DR	GCKR	27719709-27746554	2	9.44E-15
TG-DR	AC109829.1	27760253-27790011	2	5.00E-10
TG-DR	C2orf16	27799389-27805588	2	5.00E-10

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TG-DR	SUPT7L	27873679-27886676	2	5.00E-10
TG-DR	SLC4A1AP	27886338-27917840	2	1.38E-13
TG-DR	AC074091.13	27928653-27938599	2	2.22E-16
TG-DR	MRPL33	27994584-28210954	2	4.30E-14
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TG-DR	RAB1A	65297835-65357240	2	8.75E-09
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TG-DR	COBLL1	165510134-165700189	2	5.00E-10
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TG-DR	USP37	219314974-219433084	2	6.47E-09
TG-DR	RQCD1	219433303-219461803	2	2.05E-07
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TG-DR	TTLL4	219575568-219620139	2	5.98E-09
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TG-DR	PPP2R3A	135684515-135866733	3	4.39E-06
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TG-DR	ATP6V1G2	31512239-31516204	6	2.83E-15
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TG-DR	CSNK2B	31633013-31638120	6	7.77E-16
TG-DR	CSNK2B-LY6G5B-1181	31633879-31641323	6	6.22E-15
TG-DR	LY6G5B	31637944-31641553	6	9.33E-15
TG-DR	LY6G5C	31644461-31651817	6	2.82E-13
TG-DR	ABHD16A	31654726-31671221	6	2.63E-11
TG-DR	XXbac-BPG32J3.20	31654739-31681849	6	4.00E-15
TG-DR	LY6G6F	31674640-31685581	6	5.77E-15

TG-DR	MEGT1	31674681-31685695	6	8.27E-15
TG-DR	LY6G6E	31679548-31681842	6	1.34E-26
TG-DR	C6orf25	31686371-31694491	6	6.11E-16
TG-DR	LY6G6C	31686425-31689622	6	4.22E-12
TG-DR	DDAH2	31694815-31698394	6	5.00E-10
TG-DR	CLIC1	31698358-31707540	6	2.90E-13
TG-DR	MSH5	31707725-31732622	6	5.00E-10
TG-DR	MSH5-SAPCD1	31707797-31732628	6	5.00E-10
TG-DR	VWA7	31733367-31745108	6	2.13E-11
TG-DR	VAR5	31745295-31763730	6	7.11E-15
TG-DR	LSM2	31765173-31774761	6	5.27E-15
TG-DR	HSPA1L	31777396-31783437	6	1.58E-12
TG-DR	HSPA1B	31795512-31798031	6	5.00E-10
TG-DR	C6orf48	31802385-31807541	6	1.25E-11
TG-DR	NEU1	31825436-31830683	6	5.00E-10
TG-DR	SLC44A4	31830969-31846823	6	8.49E-15
TG-DR	EHMT2	31847536-31865464	6	5.00E-10
TG-DR	C2	31865562-31913449	6	5.00E-10
TG-DR	ZBTB12	31867384-31869769	6	3.68E-26
TG-DR	CFB	31895475-31919825	6	3.89E-16
TG-DR	CFB	31895475-31919861	6	3.89E-16
TG-DR	NELFE	31919864-31926887	6	5.55E-17
TG-DR	SKIV2L	31926857-31937532	6	2.94E-15
TG-DR	DXO	31937587-31940069	6	5.00E-10
TG-DR	STK19	31938868-31950598	6	5.94E-15
TG-DR	CYP21A2	32006042-32009447	6	1.11E-14
TG-DR	TNXB	32008931-32083111	6	6.46E-13
TG-DR	ATF6B	32065953-32096030	6	5.00E-10
TG-DR	FKBPL	32096484-32098068	6	4.54E-15
TG-DR	PRRT1	32116136-32122150	6	5.00E-10
TG-DR	PPT2	32121218-32134011	6	8.33E-16

TG-DR	PPT2-EGFL8	32121622-32139755	6	5.00E-10
TG-DR	EGFL8	32132360-32136058	6	5.00E-10
TG-DR	AGPAT1	32135989-32145873	6	5.55E-17
TG-DR	RNF5	32146131-32151930	6	6.16E-15
TG-DR	AGER	32148745-32152101	6	9.75E-14
TG-DR	PBX2	32152512-32157963	6	6.55E-15
TG-DR	GPSM3	32158543-32163300	6	4.41E-13
TG-DR	NOTCH4	32162620-32191844	6	5.00E-10
TG-DR	C6orf10	32256303-32339684	6	1.08E-14
TG-DR	BTNL2	32361740-32374905	6	3.14E-14
TG-DR	HLA-DRA	32407619-32412823	6	5.00E-10
TG-DR	HLA-DQA1	32595956-32614839	6	1.21E-15
TG-DR	HLA-DQB1	32627244-32636160	6	2.66E-14
TG-DR	HLA-DQA2	32709119-32714992	6	4.22E-15
TG-DR	HLA-DQB2	32723875-32731311	6	6.11E-16
TG-DR	HLA-DOB	32780540-32784825	6	2.33E-12
TG-DR	TAP2	32781544-32806599	6	1.06E-14
TG-DR	TAP2	32789610-32806557	6	3.24E-14
TG-DR	PSMB8	32808494-32812480	6	5.00E-10
TG-DR	PSMB9	32811913-32827362	6	1.94E-15
TG-DR	TAP1	32812986-32821755	6	8.49E-15
TG-DR	HLA-DMB	32902406-32908847	6	3.16E-15
TG-DR	XXbac-BPG181M17.5	32905141-32920899	6	4.50E-15
TG-DR	HLA-DMA	32916390-32936871	6	5.00E-10
TG-DR	BRD2	32936437-32949282	6	5.00E-10
TG-DR	HLA-DOA	32971955-32977389	6	9.99E-16
TG-DR	HLA-DPA1	33032346-33048552	6	4.72E-15
TG-DR	HLA-DPB1	33043703-33054978	6	6.99E-15
TG-DR	COL11A2	33130458-33160276	6	5.00E-10
TG-DR	RXRB	33161365-33168630	6	3.84E-15
TG-DR	VPS52	33218049-33239824	6	5.00E-10

TG-DR	B3GALT4	33244917-33252609	6	5.00E-10
TG-DR	WDR46	33246885-33257304	6	8.90E-10
TG-DR	PFDN6	33257079-33266178	6	5.00E-10
TG-DR	RGL2	33259431-33267101	6	7.39E-11
TG-DR	TAPBP	33267471-33282164	6	1.92E-13
TG-DR	ZBTB22	33282183-33285719	6	2.98E-13
TG-DR	DAXX	33286335-33297046	6	1.88E-12
TG-DR	KIFC1	33359313-33377701	6	1.99E-09
TG-DR	SYNGAP1	33387847-33421466	6	5.00E-10
TG-DR	GGNBP1	33551515-33556803	6	6.27E-12
TG-DR	ITPR3	33588142-33664351	6	9.27E-15
TG-DR	IP6K3	33689444-33714762	6	5.00E-10
TG-DR	LEMD2	33738979-33756913	6	3.90E-10
TG-DR	MLN	33762450-33771788	6	2.38E-10
TG-DR	PACSIN1	34433916-34503006	6	4.54E-08
TG-DR	C6orf106	34555065-34664636	6	1.53E-08
TG-DR	UHRF1BP1	34759857-34850915	6	4.61E-08
TG-DR	GSTA2	52614897-52628367	6	4.31E-12
TG-DR	GSTA1	52656462-52668708	6	2.74E-12
TG-DR	GSTA5	52696453-52710893	6	5.00E-10
TG-DR	CENPW	126661320-126670021	6	5.00E-10
TG-DR	RSPO3	127439749-127518910	6	1.78E-05
TG-DR	JAZF1	27870192-28220362	7	2.55E-07
TG-DR	CALN1	71244476-71912136	7	2.38E-08
TG-DR	POM121	72349936-72421979	7	1.76E-08
TG-DR	BAZ1B	72854728-72936608	7	3.62E-11
TG-DR	BCL7B	72950686-72972332	7	5.00E-10
TG-DR	TBL2	72983262-72993121	7	5.00E-10
TG-DR	MLXIPL	73007524-73038873	7	1.05E-14
TG-DR	VPS37D	73082155-73086442	7	5.00E-10
TG-DR	DNAJC30	73095299-73097783	7	5.79E-11

TG-DR	WBSCR22	73097355-73119491	7	7.43E-11
TG-DR	STX1A	73113536-73134002	7	2.18E-11
TG-DR	RFC2	73645829-73668774	7	4.99E-08
TG-DR	AOC1	150521715-150558592	7	7.11E-07
TG-DR	SOX7	10581278-10697357	8	9.51E-11
TG-DR	SOX7	10582909-10697357	8	9.51E-11
TG-DR	PINX1	10622473-10697394	8	6.08E-10
TG-DR	GATA4	11534468-11617511	8	8.68E-10
TG-DR	FDFT1	11653082-11696818	8	1.21E-10
TG-DR	CSGALNACT1	19261672-19615540	8	1.66E-14
TG-DR	LPL	19759228-19824769	8	5.00E-10
TG-DR	SLC18A1	20002366-20040717	8	8.22E-12
TG-DR	ATP6V1B2	20054878-20084330	8	4.53E-10
TG-DR	SLC30A8	117962512-118188953	8	4.31E-05
TG-DR	TRIB1	126442563-126450647	8	1.01E-12
TG-DR	IDE	94211441-94333833	10	4.14E-09
TG-DR	KIF11	94353043-94415150	10	1.00E-11
TG-DR	ERLIN1	101909851-101948091	10	3.99E-05
TG-DR	ACSL5	114133776-114188138	10	7.31E-11
TG-DR	ZDHHC6	114190058-114206672	10	1.63E-10
TG-DR	TCF7L2	114710009-114927437	10	5.00E-10
TG-DR	IGF2	2150342-2170833	11	1.62E-09
TG-DR	INS-IGF2	2153768-2182439	11	2.48E-09
TG-DR	INS	2181009-2182571	11	5.00E-10
TG-DR	CKAP5	46764598-46867847	11	6.19E-11
TG-DR	C11orf49	46958240-47185936	11	1.55E-08
TG-DR	NR1H3	47269851-47290396	11	1.26E-08
TG-DR	MYRF	61520114-61555990	11	2.57E-08
TG-DR	TMEM258	61535973-61560274	11	3.86E-12
TG-DR	FEN1	61560109-61564716	11	3.23E-10
TG-DR	FADS2	61560452-61634826	11	6.48E-14

TG-DR	FADS1	61567099-61596790	11	3.97E-14
TG-DR	MACROD1	63766030-63933578	11	3.25E-10
TG-DR	FLRT1	63870660-63886645	11	3.43E-09
TG-DR	STIP1	63952744-63972015	11	2.20E-09
TG-DR	FERMT3	63974150-63991354	11	2.55E-09
TG-DR	SIPA1	65405568-65418401	11	1.74E-06
TG-DR	CPT1A	68522088-68611878	11	8.77E-11
TG-DR	IGHMBP2	68671310-68708070	11	5.29E-10
TG-DR	BUD13	116618886-116643704	11	2.78E-14
TG-DR	ZNF259	116648436-116658766	11	1.17E-14
TG-DR	APOA5	116660083-116663136	11	6.76E-11
TG-DR	APOA4	116691419-116694022	11	5.00E-10
TG-DR	APOC3	116700422-116703788	11	1.55E-15
TG-DR	APOA1	116706467-116708666	11	3.91E-11
TG-DR	SIK3	116714118-116969153	11	5.00E-10
TG-DR	PAFAH1B2	117014983-117047610	11	4.55E-13
TG-DR	SIDT2	117049449-117068160	11	5.00E-10
TG-DR	TAGLN	117070037-117075498	11	5.00E-10
TG-DR	PCSK7	117075053-117103241	11	4.11E-15
TG-DR	RNF214	117103341-117157161	11	6.98E-22
TG-DR	BACE1	117156402-117186975	11	5.00E-10
TG-DR	CEP164	117185273-117283984	11	1.19E-07
TG-DR	CCND2	4382938-4414516	12	7.61E-31
TG-DR	LPAR5	6728001-6745613	12	3.65E-05
TG-DR	RP11-125O5.2	21200113-21329829	12	3.73E-09
TG-DR	SLCO1B1	21284136-21392180	12	4.27E-11
TG-DR	SSPN	26274924-26452223	12	8.11E-07
TG-DR	RAB5B	56367697-56388490	12	8.41E-10
TG-DR	SUOX	56390964-56400425	12	1.13E-07
TG-DR	IKZF4	56401443-56432219	12	6.67E-08
TG-DR	ERBB3	56473641-56497289	12	2.98E-07

TG-DR	CUX2	111471828-111788358	12	3.01E-09
TG-DR	SH2B3	111843752-111889427	12	4.03E-07
TG-DR	ATXN2	111890018-112037480	12	4.68E-08
TG-DR	BRAP	112079950-112123790	12	2.69E-08
TG-DR	RP11-162P23.2	112191694-112229222	12	3.60E-08
TG-DR	DNAH10	124247042-124420753	12	7.98E-08
TG-DR	ZNF664	124456392-124499986	12	2.10E-10
TG-DR	FAM101A	124457788-124800570	12	2.90E-14
TG-DR	NRXN3	78708734-80330762	14	7.53E-09
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TG-DR	ADAL	43622872-43646096	15	4.83E-09
TG-DR	TP53BP1	43699407-43802926	15	3.34E-08
TG-DR	STRC	43891596-44010458	15	3.84E-08
TG-DR	CATSPER2	43920701-43960316	15	3.84E-08
TG-DR	FRMD5	44162962-44487450	15	3.55E-09
TG-DR	ALDH1A2	58245622-58790065	15	4.38E-14
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TG-DR	PDXDC1	15068448-15233196	16	3.94E-10
TG-DR	NTAN1	15131710-15149921	16	3.27E-08
TG-DR	FTO	53737875-54155853	16	5.00E-10
TG-DR	CETP	56995762-57017757	16	8.33E-06
TG-DR	WWP2	69796209-69975644	16	8.17E-10
TG-DR	CMIP	81478775-81745367	16	3.22E-05
TG-DR	WDR81	1619817-1641893	17	1.80E-09
TG-DR	SERPINF2	1646130-1658562	17	4.03E-08
TG-DR	MYO19	34851477-34899284	17	4.91E-08
TG-DR	MEOX1	41717756-41739322	17	1.10E-08
TG-DR	CD300LG	41924516-41940997	17	7.31E-14
TG-DR	MPP2	41952725-41987068	17	2.94E-05
TG-DR	PYY	42030106-42081837	17	1.60E-13

TG-DR	HDAC5	42154114-42201070	17	2.58E-09
TG-DR	SLC4A1	42325753-42345509	17	9.64E-12
TG-DR	SNX11	46180719-46200436	17	3.38E-09
TG-DR	BPTF	65821640-65980494	17	9.94E-09
TG-DR	C18orf8	21083473-21111746	18	2.58E-07
TG-DR	NPC1	21086148-21166862	18	3.81E-09
TG-DR	EVI5L	7895119-7929862	19	4.20E-06
TG-DR	CTD-3193O13.9	7933605-7939326	19	1.31E-07
TG-DR	LRRC8E	7953390-7966901	19	3.41E-08
TG-DR	AC010336.1	7963689-7968427	19	1.65E-12
TG-DR	MAP2K7	7968728-7979363	19	4.93E-11
TG-DR	ANGPTL4	8428173-8439257	19	5.00E-10
TG-DR	MYO1F	8585674-8642461	19	9.65E-09
TG-DR	SUGP2	19101697-19144832	19	5.00E-10
TG-DR	ARMC6	19144384-19170563	19	1.25E-21
TG-DR	SLC25A42	19174808-19223697	19	6.54E-24
TG-DR	MEF2BNB-MEF2B	19256376-19302967	19	5.00E-10
TG-DR	MEF2B	19256377-19303400	19	5.00E-10
TG-DR	MEF2BNB	19287712-19303400	19	5.00E-10
TG-DR	NCAN	19322782-19363042	19	5.00E-10
TG-DR	HAPLN4	19366450-19373605	19	4.29E-46
TG-DR	TM6SF2	19375173-19384200	19	1.55E-15
TG-DR	SUGP1	19386827-19431653	19	2.44E-15
TG-DR	MAU2	19431490-19469563	19	2.39E-15
TG-DR	GATAD2A	19496635-19619740	19	1.78E-12
TG-DR	NDUFA13	19626545-19644285	19	5.00E-10
TG-DR	CTC-260F20.3	19627036-19646885	19	5.00E-10
TG-DR	YJEFN3	19627036-19648390	19	5.00E-10
TG-DR	CILP2	19649057-19657468	19	4.99E-15
TG-DR	PBX4	19672522-19729725	19	5.00E-10
TG-DR	GMIP	19740285-19754476	19	7.95E-34

TG-DR	ATP13A1	19756007-19774502	19	2.65E-38
TG-DR	ZNF101	19779605-19794318	19	5.00E-10
TG-DR	ZNF14	19821280-19843906	19	8.53E-20
TG-DR	ZNF90	20188803-20237885	19	3.13E-09
TG-DR	PEPD	33877856-34012700	19	2.23E-07
TG-DR	BCAM	45312328-45324673	19	5.59E-14
TG-DR	PVRL2	45349432-45392485	19	2.33E-15
TG-DR	TOMM40	45393826-45406946	19	5.00E-10
TG-DR	APOE	45409011-45412650	19	2.26E-12
TG-DR	APOC1	45417504-45422606	19	7.77E-16
TG-DR	APOC4	45445495-45452820	19	7.94E-10
TG-DR	APOC4-APOC2	45445495-45452822	19	7.94E-10
TG-DR	APOC2	45449243-45452822	19	2.48E-08
TG-DR	CTB-129P6.11	45453301-45457264	19	1.32E-08
TG-DR	CLPTM1	45457842-45496599	19	1.63E-14
TG-DR	RELB	45504688-45541452	19	5.00E-10
TG-DR	RALY	32581452-32696114	20	1.34E-05
TG-DR	EIF2S2	32676104-32700138	20	6.41E-05
TG-DR	PLTP	44527399-44540794	20	5.00E-10
TG-DR	PCIF1	44563267-44576662	20	1.35E-12
TG-DR	ZNF335	44577292-44600833	20	9.34E-14
TG-DR	MMP9	44637547-44645200	20	5.11E-12
TG-DR	SLC12A5	44650356-44688784	20	1.38E-08
TG-DR	PSMG1	40546695-40555777	21	4.00E-08
TG-DR	BRWD1	40556102-40693485	21	1.91E-08
TG-DR	HMGN1	40714241-40721573	21	2.28E-05
TG-DR	PPARA	46546424-46639653	22	4.30E-08
TG-DR	CDPF1	46639908-46646576	22	0.00011878
TG-DR	TTC38	46663858-46689905	22	2.79E-08
TG-DR	CELSR1	46756731-46933067	22	5.68E-07
WHR-DKD	TBX15	119425669-119532179	1	5.00E-10

WHR-DKD	WARS2	119573839-119683294	1	1.41E-11
WHR-DKD	GORAB	170501270-170522587	1	1.61E-08
WHR-DKD	SEC16B	177893091-177953438	1	3.54E-08
WHR-DKD	COBLL1	165510134-165700189	2	3.50E-10
WHR-DKD	TIMP4	12194551-12200851	3	3.24E-09
WHR-DKD	PPARG	12328867-12475855	3	3.02E-08
WHR-DKD	ANKRD28	15708743-15901278	3	2.44E-08
WHR-DKD	TMCC1	129366635-129612419	3	4.37E-08
WHR-DKD	CPNE4	131252399-132004254	3	2.55E-08
WHR-DKD	FAM13A	89647106-90032549	4	1.31E-05
WHR-DKD	AC022431.2	55807394-55902059	5	4.20E-05
WHR-DKD	BTN3A1	26402465-26415444	6	5.14E-11
WHR-DKD	BTN3A3	26440700-26453643	6	3.15E-10
WHR-DKD	BTN2A1	26458150-26476849	6	6.84E-09
WHR-DKD	BTN1A1	26501449-26510650	6	2.82E-08
WHR-DKD	ABT1	26597180-26600278	6	6.15E-10
WHR-DKD	ZNF322	26636518-26659980	6	2.31E-10
WHR-DKD	POM121L2	27253682-27279949	6	2.61E-11
WHR-DKD	ZNF391	27342394-27371683	6	2.19E-07
WHR-DKD	ZNF184	27418522-27440897	6	1.06E-09
WHR-DKD	HIST1H2BL	27775257-27775709	6	2.24E-05
WHR-DKD	HIST1H2AJ	27782112-27782607	6	7.11E-09
WHR-DKD	HIST1H2BN	27806323-27823487	6	1.54E-06
WHR-DKD	HIST1H2AL	27833034-27833606	6	2.38E-08
WHR-DKD	HIST1H1B	27834570-27835359	6	2.90E-09
WHR-DKD	HIST1H4L	27840926-27841289	6	5.53E-11
WHR-DKD	HIST1H3J	27858093-27860884	6	3.11E-08
WHR-DKD	OR2B2	27878963-27880174	6	8.49E-11
WHR-DKD	ZKSCAN8	28109688-28127250	6	3.62E-11
WHR-DKD	ZSCAN9	28192664-28201260	6	2.92E-11
WHR-DKD	ZKSCAN4	28212401-28227011	6	1.85E-10

WHR-DKD	PGBD1	28249314-28270326	6	5.00E-10
WHR-DKD	ZSCAN31	28292470-28324048	6	1.23E-10
WHR-DKD	ZKSCAN3	28317691-28336947	6	6.62E-12
WHR-DKD	ZSCAN12	28346732-28367511	6	6.55E-12
WHR-DKD	ZSCAN23	28399707-28411279	6	1.02E-08
WHR-DKD	GPX6	28471073-28495992	6	2.46E-12
WHR-DKD	SCAND3	28539407-28583989	6	8.46E-12
WHR-DKD	TRIM27	28870779-28891766	6	6.60E-11
WHR-DKD	OR5V1	29323007-29399744	6	1.01E-11
WHR-DKD	OR12D3	29341200-29343068	6	1.04E-09
WHR-DKD	OR11A1	29393281-29424848	6	1.81E-07
WHR-DKD	UBD	29523292-29527702	6	3.04E-11
WHR-DKD	GABBR1	29523406-29601753	6	5.70E-07
WHR-DKD	MOG	29624758-29640149	6	2.08E-09
WHR-DKD	ZFP57	29640169-29648887	6	9.01E-10
WHR-DKD	HLA-F	29690552-29706305	6	1.34E-07
WHR-DKD	ZNRD1	30026676-30032686	6	8.70E-14
WHR-DKD	RNF39	30038043-30043664	6	3.02E-08
WHR-DKD	TRIM31	30070674-30080883	6	1.62E-09
WHR-DKD	TRIM10	30119722-30128711	6	5.00E-10
WHR-DKD	TRIM15	30130993-30140473	6	5.00E-10
WHR-DKD	TRIM26	30152232-30181204	6	2.24E-09
WHR-DKD	TRIM39	30294256-30311506	6	1.27E-09
WHR-DKD	TRIM39-RPP21	30297359-30314631	6	5.00E-10
WHR-DKD	GNL1	30509154-30524951	6	1.46E-18
WHR-DKD	ABCF1	30539153-30564956	6	4.01E-18
WHR-DKD	ATAT1	30594619-30614600	6	5.00E-10
WHR-DKD	C6orf136	30614816-30620987	6	8.82E-20
WHR-DKD	PPP1R18	30644166-30655672	6	1.69E-18
WHR-DKD	NRM	30655824-30659197	6	8.68E-19
WHR-DKD	TUBB	30687978-30693203	6	1.86E-11

WHR-DKD	FLOT1	30695486-30710510	6	4.70E-13
WHR-DKD	DDR1	30844198-30867933	6	6.27E-15
WHR-DKD	GTF2H4	30875961-30881883	6	5.00E-10
WHR-DKD	VAR2	30876019-30894236	6	3.58E-10
WHR-DKD	SFTA2	30899130-30899952	6	5.00E-10
WHR-DKD	DPCR1	30908749-30921998	6	2.10E-14
WHR-DKD	MUC21	30951495-30957680	6	1.31E-21
WHR-DKD	MUC22	30978251-31003179	6	2.09E-14
WHR-DKD	C6orf15	31079000-31080336	6	5.00E-10
WHR-DKD	PSORS1C1	31082527-31107869	6	5.00E-10
WHR-DKD	CDSN	31082867-31088223	6	3.24E-13
WHR-DKD	PSORS1C2	31105313-31107127	6	8.66E-15
WHR-DKD	CCHCR1	31110216-31126015	6	2.78E-16
WHR-DKD	TCF19	31126319-31134936	6	7.37E-12
WHR-DKD	POU5F1	31132119-31148508	6	5.00E-10
WHR-DKD	HCG27	31165537-31171745	6	1.11E-14
WHR-DKD	HLA-B	31321649-31324965	6	5.00E-10
WHR-DKD	MICA	31371356-31383092	6	3.04E-14
WHR-DKD	MICB	31462658-31478901	6	5.00E-10
WHR-DKD	MCCD1	31496494-31498009	6	4.46E-10
WHR-DKD	DDX39B	31497996-31510225	6	6.11E-16
WHR-DKD	ATP6V1G2-DDX39B	31497996-31514385	6	5.27E-15
WHR-DKD	ATP6V1G2	31512239-31516204	6	5.00E-10
WHR-DKD	NFKBIL1	31514647-31526606	6	4.00E-15
WHR-DKD	LTA	31539831-31542101	6	2.29E-08
WHR-DKD	LST1	31553901-31556686	6	1.58E-09
WHR-DKD	NCR3	31556672-31560762	6	3.89E-15
WHR-DKD	AIF1	31582961-31584798	6	5.00E-10
WHR-DKD	PRRC2A	31588497-31605548	6	9.26E-13
WHR-DKD	BAG6	31606805-31620482	6	3.44E-15
WHR-DKD	APOM	31620193-31625987	6	5.00E-10

WHR-DKD	C6orf47	31626075-31628549	6	1.07E-21
WHR-DKD	GPANK1	31629006-31634060	6	3.04E-10
WHR-DKD	CSNK2B	31633013-31638120	6	1.28E-13
WHR-DKD	CSNK2B-LY6G5B-1181	31633879-31641323	6	1.92E-14
WHR-DKD	LY6G5B	31637944-31641553	6	5.00E-10
WHR-DKD	LY6G5C	31644461-31651817	6	5.00E-10
WHR-DKD	ABHD16A	31654726-31671221	6	6.72E-15
WHR-DKD	XXbac-BPG32J3.20	31654739-31681849	6	1.83E-15
WHR-DKD	LY6G6F	31674640-31685581	6	3.66E-15
WHR-DKD	MEGT1	31674681-31685695	6	3.11E-15
WHR-DKD	C6orf25	31686371-31694491	6	5.00E-10
WHR-DKD	LY6G6C	31686425-31689622	6	5.00E-10
WHR-DKD	DDAH2	31694815-31698394	6	5.00E-10
WHR-DKD	CLIC1	31698358-31707540	6	8.84E-29
WHR-DKD	MSH5	31707725-31732622	6	5.00E-10
WHR-DKD	MSH5-SAPCD1	31707797-31732628	6	5.00E-10
WHR-DKD	VWA7	31733367-31745108	6	5.00E-10
WHR-DKD	VAR5	31745295-31763730	6	2.63E-10
WHR-DKD	LSM2	31765173-31774761	6	5.00E-10
WHR-DKD	HSPA1L	31777396-31783437	6	5.00E-10
WHR-DKD	C6orf48	31802385-31807541	6	5.00E-10
WHR-DKD	NEU1	31825436-31830683	6	3.44E-23
WHR-DKD	SLC44A4	31830969-31846823	6	5.22E-15
WHR-DKD	EHMT2	31847536-31865464	6	2.78E-16
WHR-DKD	C2	31865562-31913449	6	8.55E-15
WHR-DKD	CFB	31895475-31919825	6	3.33E-15
WHR-DKD	CFB	31895475-31919861	6	3.33E-15
WHR-DKD	NELFE	31919864-31926887	6	9.61E-18
WHR-DKD	SKIV2L	31926857-31937532	6	5.00E-10
WHR-DKD	DXO	31937587-31940069	6	1.07E-10
WHR-DKD	STK19	31938868-31950598	6	5.60E-12

WHR-DKD	CYP21A2	32006042-32009447	6	2.42E-08
WHR-DKD	TNXB	32008931-32083111	6	1.14E-14
WHR-DKD	ATF6B	32065953-32096030	6	3.61E-15
WHR-DKD	FKBPL	32096484-32098068	6	3.71E-20
WHR-DKD	PRRT1	32116136-32122150	6	1.11E-10
WHR-DKD	PPT2	32121218-32134011	6	2.03E-13
WHR-DKD	PPT2-EGFL8	32121622-32139755	6	4.50E-15
WHR-DKD	AGPAT1	32135989-32145873	6	5.00E-10
WHR-DKD	RNF5	32146131-32151930	6	3.83E-15
WHR-DKD	AGER	32148745-32152101	6	4.50E-11
WHR-DKD	PBX2	32152512-32157963	6	7.72E-13
WHR-DKD	GPSM3	32158543-32163300	6	4.54E-10
WHR-DKD	NOTCH4	32162620-32191844	6	5.00E-10
WHR-DKD	C6orf10	32256303-32339684	6	1.13E-14
WHR-DKD	BTNL2	32361740-32374905	6	5.00E-10
WHR-DKD	HLA-DRA	32407619-32412823	6	7.38E-15
WHR-DKD	HLA-DQA1	32595956-32614839	6	3.00E-14
WHR-DKD	HLA-DQB1	32627244-32636160	6	5.00E-10
WHR-DKD	HLA-DQA2	32709119-32714992	6	8.16E-15
WHR-DKD	HLA-DQB2	32723875-32731311	6	5.00E-10
WHR-DKD	HLA-DOB	32780540-32784825	6	2.02E-14
WHR-DKD	TAP2	32781544-32806599	6	5.00E-10
WHR-DKD	TAP2	32789610-32806557	6	5.00E-10
WHR-DKD	PSMB8	32808494-32812480	6	1.12E-11
WHR-DKD	PSMB9	32811913-32827362	6	2.39E-15
WHR-DKD	TAP1	32812986-32821755	6	5.00E-10
WHR-DKD	HLA-DMB	32902406-32908847	6	3.83E-23
WHR-DKD	XXbac-BPG181M17.5	32905141-32920899	6	5.00E-10
WHR-DKD	HLA-DMA	32916390-32936871	6	3.33E-16
WHR-DKD	BRD2	32936437-32949282	6	5.00E-10
WHR-DKD	HLA-DOA	32971955-32977389	6	9.34E-13

WHR-DKD	HLA-DPA1	33032346-33048552	6	1.00E-14
WHR-DKD	HLA-DPB1	33043703-33054978	6	3.74E-11
WHR-DKD	COL11A2	33130458-33160276	6	2.72E-15
WHR-DKD	VPS52	33218049-33239824	6	2.73E-08
WHR-DKD	B3GALT4	33244917-33252609	6	5.00E-10
WHR-DKD	WDR46	33246885-33257304	6	8.48E-08
WHR-DKD	PFDN6	33257079-33266178	6	1.55E-05
WHR-DKD	TAPBP	33267471-33282164	6	1.39E-08
WHR-DKD	ZBTB22	33282183-33285719	6	4.39E-09
WHR-DKD	DAXX	33286335-33297046	6	2.59E-07
WHR-DKD	SYNGAP1	33387847-33421466	6	6.04E-11
WHR-DKD	GGNBP1	33551515-33556803	6	5.00E-10
WHR-DKD	ITPR3	33588142-33664351	6	2.68E-10
WHR-DKD	CENPW	126661320-126670021	6	1.56E-05
WHR-DKD	RSPO3	127439749-127518910	6	4.17E-10
WHR-DKD	SNX10	26331541-26413949	7	5.00E-10
WHR-DKD	TCF7L2	114710009-114927437	10	3.51E-10
WHR-DKD	SSPN	26274924-26452223	12	5.11E-05
WHR-DKD	HOXC12	54348618-54352740	12	1.83E-08
WHR-DKD	DNAH10	124247042-124420753	12	2.22E-09
WHR-DKD	CCDC92	124403207-124457378	12	1.03E-06
WHR-DKD	DNAH10OS	124410971-124419531	12	7.53E-05
WHR-DKD	ZNF664	124456392-124499986	12	2.36E-05
WHR-DKD	FAM101A	124457788-124800570	12	5.00E-12
WHR-DKD	DLEU1	50656307-51297372	13	2.14E-08
WHR-DKD	MAP2K5	67835047-68099461	15	5.52E-07
WHR-DKD	SKOR1	68112042-68126899	15	4.09E-08
WHR-DKD	FTO	53737875-54155853	16	5.00E-10
WHR-DKD	KCNJ12	21279509-21323179	17	7.91E-11
WHR-DKD	ZNHIT3	34842473-34855154	17	2.77E-07
WHR-DKD	MYO19	34851477-34899284	17	1.65E-09

WHR-DKD	PIGW	34890847-34895159	17	2.02E-09
WHR-DKD	GGNBP2	34900737-34946278	17	2.39E-10
WHR-DKD	DHRS11	34948228-34957235	17	6.91E-07
WHR-DKD	MRM1	34958001-34965407	17	5.54E-09
WHR-DKD	PEPD	33877856-34012700	19	5.05E-12
WHR-DKD	PVRL2	45349432-45392485	19	1.01E-09
WHR-DKD	TOMM40	45393826-45406946	19	5.00E-10
WHR-DKD	APOE	45409011-45412650	19	5.00E-10
WHR-DKD	APOC1	45417504-45422606	19	7.39E-08
WHR-DR	TBX15	119425669-119532179	1	2.61E-15
WHR-DR	WARS2	119573839-119683294	1	5.58E-09
WHR-DR	CFH	196621008-196716634	1	1.13E-08
WHR-DR	DNAJC27	25166505-25194963	2	3.53E-12
WHR-DR	EFR3B	25264999-25378243	2	2.60E-12
WHR-DR	POMC	25383722-25391772	2	5.00E-10
WHR-DR	COBLL1	165510134-165700189	2	6.06E-14
WHR-DR	TIMP4	12194551-12200851	3	1.05E-08
WHR-DR	PPARG	12328867-12475855	3	5.00E-10
WHR-DR	PBRM1	52579368-52719933	3	3.76E-08
WHR-DR	NEK4	52744800-52804965	3	2.98E-08
WHR-DR	IGF2BP2	185361527-185542844	3	4.06E-10
WHR-DR	FAM13A	89647106-90032549	4	3.74E-08
WHR-DR	AC022431.2	55807394-55902059	5	9.32E-10
WHR-DR	COL4A3BP	74664311-74807963	5	9.57E-09
WHR-DR	ANKDD1B	74907284-74967671	5	3.77E-06
WHR-DR	POC5	74969949-75013313	5	4.19E-05
WHR-DR	LRRC16A	25279306-25620758	6	2.85E-09
WHR-DR	HIST1H2BF	26199748-26200942	6	2.23E-08
WHR-DR	BTN3A2	26365387-26378546	6	5.41E-09
WHR-DR	BTN3A1	26402465-26415444	6	7.87E-12
WHR-DR	BTN3A3	26440700-26453643	6	5.56E-11

WHR-DR	BTN2A1	26458150-26476849	6	6.71E-08
WHR-DR	BTN1A1	26501449-26510650	6	3.86E-08
WHR-DR	ABT1	26597180-26600278	6	7.12E-10
WHR-DR	ZNF322	26636518-26659980	6	2.26E-10
WHR-DR	POM121L2	27253682-27279949	6	1.90E-11
WHR-DR	ZNF391	27342394-27371683	6	3.96E-07
WHR-DR	ZNF184	27418522-27440897	6	3.04E-09
WHR-DR	HIST1H2BL	27775257-27775709	6	5.00E-10
WHR-DR	HIST1H2AJ	27782112-27782607	6	1.31E-09
WHR-DR	HIST1H2BN	27806323-27823487	6	1.67E-08
WHR-DR	HIST1H2AL	27833034-27833606	6	5.17E-09
WHR-DR	HIST1H1B	27834570-27835359	6	1.76E-05
WHR-DR	HIST1H4L	27840926-27841289	6	5.54E-11
WHR-DR	HIST1H3J	27858093-27860884	6	7.69E-07
WHR-DR	OR2B2	27878963-27880174	6	8.50E-11
WHR-DR	ZKSCAN8	28109688-28127250	6	3.21E-11
WHR-DR	ZSCAN9	28192664-28201260	6	3.03E-11
WHR-DR	ZKSCAN4	28212401-28227011	6	2.22E-10
WHR-DR	PGBD1	28249314-28270326	6	5.43E-09
WHR-DR	ZSCAN31	28292470-28324048	6	1.73E-10
WHR-DR	ZKSCAN3	28317691-28336947	6	4.18E-12
WHR-DR	ZSCAN12	28346732-28367511	6	3.72E-12
WHR-DR	GPX6	28471073-28495992	6	8.68E-13
WHR-DR	SCAND3	28539407-28583989	6	2.94E-12
WHR-DR	TRIM27	28870779-28891766	6	1.89E-11
WHR-DR	ZNF311	28962562-28973093	6	3.61E-08
WHR-DR	OR2J3	29079668-29080603	6	1.50E-09
WHR-DR	OR5V1	29323007-29399744	6	2.83E-12
WHR-DR	OR12D3	29341200-29343068	6	2.40E-10
WHR-DR	OR11A1	29393281-29424848	6	4.65E-08
WHR-DR	UBD	29523292-29527702	6	8.96E-13

WHR-DR	GABBR1	29523406-29601753	6	1.06E-13
WHR-DR	HLA-F	29690552-29706305	6	6.39E-12
WHR-DR	HLA-G	29794744-29798902	6	5.22E-09
WHR-DR	HLA-A	29909037-29913661	6	4.07E-08
WHR-DR	ZNRD1	30026676-30032686	6	4.13E-15
WHR-DR	RNF39	30038043-30043664	6	3.39E-15
WHR-DR	TRIM31	30070674-30080883	6	2.65E-11
WHR-DR	TRIM40	30103885-30116512	6	2.14E-07
WHR-DR	TRIM10	30119722-30128711	6	4.10E-10
WHR-DR	TRIM15	30130993-30140473	6	5.00E-10
WHR-DR	TRIM26	30152232-30181204	6	5.00E-10
WHR-DR	TRIM39	30294256-30311506	6	4.44E-15
WHR-DR	TRIM39-RPP21	30297359-30314631	6	1.33E-15
WHR-DR	RPP21	30312908-30314661	6	5.00E-10
WHR-DR	GNL1	30509154-30524951	6	1.08E-20
WHR-DR	PRR3	30524663-30531500	6	9.83E-09
WHR-DR	ABCF1	30539153-30564956	6	5.00E-10
WHR-DR	ATAT1	30594619-30614600	6	5.00E-10
WHR-DR	C6orf136	30614816-30620987	6	5.92E-22
WHR-DR	PPP1R18	30644166-30655672	6	2.05E-20
WHR-DR	NRM	30655824-30659197	6	5.00E-10
WHR-DR	MDC1	30667584-30685666	6	3.52E-10
WHR-DR	TUBB	30687978-30693203	6	7.34E-11
WHR-DR	FLOT1	30695486-30710510	6	3.39E-13
WHR-DR	IER3	30710976-30712331	6	8.91E-10
WHR-DR	DDR1	30844198-30867933	6	7.49E-15
WHR-DR	GTF2H4	30875961-30881883	6	5.00E-10
WHR-DR	VAR52	30876019-30894236	6	1.08E-11
WHR-DR	SFTA2	30899130-30899952	6	5.00E-10
WHR-DR	DPCR1	30908749-30921998	6	3.44E-15
WHR-DR	MUC21	30951495-30957680	6	5.00E-10

WHR-DR	MUC22	30978251-31003179	6	5.00E-10
WHR-DR	C6orf15	31079000-31080336	6	5.00E-10
WHR-DR	PSORS1C1	31082527-31107869	6	2.05E-15
WHR-DR	CDSN	31082867-31088223	6	4.39E-15
WHR-DR	PSORS1C2	31105313-31107127	6	4.11E-15
WHR-DR	CCHCR1	31110216-31126015	6	8.66E-15
WHR-DR	TCF19	31126319-31134936	6	3.89E-16
WHR-DR	POU5F1	31132119-31148508	6	5.00E-10
WHR-DR	HCG27	31165537-31171745	6	5.00E-10
WHR-DR	HLA-B	31321649-31324965	6	2.45E-12
WHR-DR	MICA	31371356-31383092	6	6.22E-15
WHR-DR	MICB	31462658-31478901	6	1.95E-14
WHR-DR	MCCD1	31496494-31498009	6	3.61E-15
WHR-DR	DDX39B	31497996-31510225	6	1.18E-14
WHR-DR	ATP6V1G2-DDX39B	31497996-31514385	6	5.00E-10
WHR-DR	ATP6V1G2	31512239-31516204	6	4.11E-15
WHR-DR	NFKBIL1	31514647-31526606	6	2.94E-15
WHR-DR	LTA	31539831-31542101	6	2.55E-12
WHR-DR	LST1	31553901-31556686	6	1.47E-12
WHR-DR	NCR3	31556672-31560762	6	5.00E-10
WHR-DR	AIF1	31582961-31584798	6	1.72E-12
WHR-DR	PRRC2A	31588497-31605548	6	5.00E-10
WHR-DR	BAG6	31606805-31620482	6	5.00E-10
WHR-DR	APOM	31620193-31625987	6	5.00E-10
WHR-DR	C6orf47	31626075-31628549	6	8.81E-42
WHR-DR	GPANK1	31629006-31634060	6	2.63E-11
WHR-DR	CSNK2B	31633013-31638120	6	4.20E-14
WHR-DR	CSNK2B-LY6G5B-1181	31633879-31641323	6	3.33E-15
WHR-DR	LY6G5B	31637944-31641553	6	5.00E-10
WHR-DR	LY6G5C	31644461-31651817	6	5.00E-10
WHR-DR	ABHD16A	31654726-31671221	6	5.00E-10

WHR-DR	XXbac-BPG32J3.20	31654739-31681849	6	7.49E-15
WHR-DR	LY6G6F	31674640-31685581	6	4.72E-15
WHR-DR	MEGT1	31674681-31685695	6	7.55E-15
WHR-DR	C6orf25	31686371-31694491	6	4.00E-11
WHR-DR	LY6G6C	31686425-31689622	6	5.00E-10
WHR-DR	DDAH2	31694815-31698394	6	3.13E-10
WHR-DR	CLIC1	31698358-31707540	6	5.00E-10
WHR-DR	MSH5	31707725-31732622	6	4.44E-15
WHR-DR	MSH5-SAPCD1	31707797-31732628	6	1.89E-15
WHR-DR	VWA7	31733367-31745108	6	1.55E-12
WHR-DR	VAR5	31745295-31763730	6	5.00E-10
WHR-DR	LSM2	31765173-31774761	6	5.00E-10
WHR-DR	HSPA1L	31777396-31783437	6	5.00E-10
WHR-DR	C6orf48	31802385-31807541	6	2.89E-36
WHR-DR	NEU1	31825436-31830683	6	4.92E-36
WHR-DR	SLC44A4	31830969-31846823	6	1.75E-12
WHR-DR	EHMT2	31847536-31865464	6	6.36E-13
WHR-DR	C2	31865562-31913449	6	5.00E-10
WHR-DR	CFB	31895475-31919825	6	6.00E-15
WHR-DR	CFB	31895475-31919861	6	6.00E-15
WHR-DR	NELFE	31919864-31926887	6	1.28E-13
WHR-DR	SKIV2L	31926857-31937532	6	5.00E-10
WHR-DR	STK19	31938868-31950598	6	3.67E-11
WHR-DR	CYP21A2	32006042-32009447	6	5.00E-10
WHR-DR	TNXB	32008931-32083111	6	5.00E-10
WHR-DR	ATF6B	32065953-32096030	6	5.00E-10
WHR-DR	FKBPL	32096484-32098068	6	3.36E-28
WHR-DR	PRRT1	32116136-32122150	6	5.00E-10
WHR-DR	PPT2	32121218-32134011	6	2.83E-15
WHR-DR	PPT2-EGFL8	32121622-32139755	6	8.88E-16
WHR-DR	EGFL8	32132360-32136058	6	6.72E-07

WHR-DR	AGPAT1	32135989-32145873	6	2.76E-11
WHR-DR	RNF5	32146131-32151930	6	1.05E-15
WHR-DR	AGER	32148745-32152101	6	1.78E-12
WHR-DR	PBX2	32152512-32157963	6	5.00E-10
WHR-DR	GPSM3	32158543-32163300	6	3.48E-13
WHR-DR	NOTCH4	32162620-32191844	6	5.00E-10
WHR-DR	C6orf10	32256303-32339684	6	1.19E-15
WHR-DR	BTNL2	32361740-32374905	6	3.50E-15
WHR-DR	HLA-DRA	32407619-32412823	6	3.55E-13
WHR-DR	HLA-DQA1	32595956-32614839	6	6.63E-13
WHR-DR	HLA-DQB1	32627244-32636160	6	5.00E-10
WHR-DR	HLA-DQA2	32709119-32714992	6	3.85E-11
WHR-DR	HLA-DQB2	32723875-32731311	6	2.48E-10
WHR-DR	HLA-DOB	32780540-32784825	6	5.55E-16
WHR-DR	TAP2	32781544-32806599	6	5.00E-10
WHR-DR	TAP2	32789610-32806557	6	5.00E-10
WHR-DR	PSMB8	32808494-32812480	6	3.07E-12
WHR-DR	PSMB9	32811913-32827362	6	9.88E-15
WHR-DR	TAP1	32812986-32821755	6	5.55E-17
WHR-DR	HLA-DMB	32902406-32908847	6	1.08E-10
WHR-DR	XXbac-BPG181M17.5	32905141-32920899	6	8.06E-12
WHR-DR	HLA-DMA	32916390-32936871	6	1.94E-15
WHR-DR	BRD2	32936437-32949282	6	1.55E-15
WHR-DR	HLA-DOA	32971955-32977389	6	7.77E-16
WHR-DR	HLA-DPA1	33032346-33048552	6	1.63E-11
WHR-DR	HLA-DPB1	33043703-33054978	6	1.37E-13
WHR-DR	COL11A2	33130458-33160276	6	7.11E-15
WHR-DR	RXRB	33161365-33168630	6	1.14E-09
WHR-DR	SLC39A7	33168222-33172216	6	7.56E-10
WHR-DR	VPS52	33218049-33239824	6	3.89E-13
WHR-DR	B3GALT4	33244917-33252609	6	5.00E-10

WHR-DR	WDR46	33246885-33257304	6	5.00E-10
WHR-DR	PFDN6	33257079-33266178	6	5.00E-10
WHR-DR	TAPBP	33267471-33282164	6	2.27E-13
WHR-DR	ZBTB22	33282183-33285719	6	8.84E-15
WHR-DR	DAXX	33286335-33297046	6	4.17E-09
WHR-DR	CUTA	33384219-33386094	6	6.34E-09
WHR-DR	SYNGAP1	33387847-33421466	6	1.16E-16
WHR-DR	BAK1	33540329-33548019	6	4.50E-07
WHR-DR	GGNBP1	33551515-33556803	6	5.00E-10
WHR-DR	ITPR3	33588142-33664351	6	6.99E-15
WHR-DR	IP6K3	33689444-33714762	6	1.81E-09
WHR-DR	LEMD2	33738979-33756913	6	1.26E-08
WHR-DR	MLN	33762450-33771788	6	6.48E-10
WHR-DR	GRM4	33989628-34123399	6	3.18E-08
WHR-DR	HMGA1	34204650-34214008	6	9.94E-08
WHR-DR	C6orf1	34214157-34217247	6	5.00E-10
WHR-DR	NUDT3	34247456-34360451	6	1.86E-09
WHR-DR	RPS10-NUDT3	34256547-34393825	6	1.86E-09
WHR-DR	CENPW	126661320-126670021	6	5.00E-10
WHR-DR	RSPO3	127439749-127518910	6	1.22E-10
WHR-DR	JAZF1	27870192-28220362	7	2.11E-09
WHR-DR	PTCD1	99014362-99063787	7	3.56E-05
WHR-DR	ATP5J2-PTCD1	99017372-99063820	7	3.56E-05
WHR-DR	CPSF4	99036545-99054994	7	2.29E-05
WHR-DR	ATP5J2	99046098-99063954	7	1.25E-07
WHR-DR	ZNF789	99070464-99101273	7	0.00011809
WHR-DR	ZKSCAN5	99102274-99132323	7	2.74E-06
WHR-DR	FAM200A	99143931-99156159	7	3.84E-08
WHR-DR	GS1-259H13.10	99156291-99205433	7	3.74E-08
WHR-DR	RP11-1102P16.1	72315675-72504260	8	3.41E-08
WHR-DR	LINGO2	27948076-28670283	9	1.87E-05

WHR-DR	TCF7L2	114710009-114927437	10	8.35E-12
WHR-DR	RAPSN	47459308-47470730	11	6.27E-11
WHR-DR	CELF1	47487496-47587121	11	1.12E-06
WHR-DR	NDUFS3	47586888-47606114	11	3.24E-09
WHR-DR	KBTBD4	47593749-47600567	11	3.24E-09
WHR-DR	MTCH2	47638867-47664175	11	6.10E-09
WHR-DR	AGBL2	47681143-47736941	11	2.81E-09
WHR-DR	DYNC2H1	102980160-103350591	11	1.28E-05
WHR-DR	SSPN	26274924-26452223	12	5.27E-15
WHR-DR	RP11-834C11.12	54379629-54428672	12	5.64E-12
WHR-DR	HOXC6	54384408-54424607	12	5.00E-10
WHR-DR	HOXC4	54410715-54449813	12	7.36E-12
WHR-DR	HOXC5	54426637-54429142	12	1.93E-11
WHR-DR	RAB5B	56367697-56388490	12	1.12E-09
WHR-DR	SUOX	56390964-56400425	12	5.00E-10
WHR-DR	IKZF4	56401443-56432219	12	6.94E-06
WHR-DR	ERBB3	56473641-56497289	12	1.23E-08
WHR-DR	RP11-603J24.9	56495115-56503073	12	4.11E-08
WHR-DR	WSCD2	108523248-108644314	12	2.72E-08
WHR-DR	DNAH10	124247042-124420753	12	2.50E-09
WHR-DR	ZNF664	124456392-124499986	12	6.23E-10
WHR-DR	FAM101A	124457788-124800570	12	2.03E-10
WHR-DR	DLEU1	50656307-51297372	13	6.10E-07
WHR-DR	NRXN3	78708734-80330762	14	4.68E-08
WHR-DR	MAP2K5	67835047-68099461	15	1.12E-05
WHR-DR	FTO	53737875-54155853	16	6.87E-14
WHR-DR	MAP2K3	21187984-21218552	17	4.93E-08
WHR-DR	ZNHIT3	34842473-34855154	17	8.15E-11
WHR-DR	MYO19	34851477-34899284	17	6.52E-11
WHR-DR	GGNBP2	34900737-34946278	17	3.60E-09
WHR-DR	DHRS11	34948228-34957235	17	2.76E-09

WHR-DR	MRM1	34958001-34965407	17	2.25E-10
WHR-DR	MAPT	43971748-44105700	17	2.96E-10
WHR-DR	C18orf8	21083473-21111746	18	4.04E-05
WHR-DR	NPC1	21086148-21166862	18	4.04E-05
WHR-DR	CEBPG	33864236-33873592	19	6.49E-07
WHR-DR	PEPD	33877856-34012700	19	3.33E-15
WHR-DR	PVRL2	45349432-45392485	19	3.86E-11
WHR-DR	TOMM40	45393826-45406946	19	3.90E-13
WHR-DR	APOE	45409011-45412650	19	5.00E-10
WHR-DR	APOC1	45417504-45422606	19	2.05E-10
WHR-DR	EML2	46110252-46148887	19	4.33E-08
WHR-DR	EYA2	45523263-45817492	20	6.92E-09
WHRadjBMI-DKD	TBX15	119425669-119532179	1	7.33E-15
WHRadjBMI-DKD	WARS2	119573839-119683294	1	5.00E-10
WHRadjBMI-DKD	GORAB	170501270-170522587	1	1.46E-07
WHRadjBMI-DKD	COBLL1	165510134-165700189	2	5.00E-10
WHRadjBMI-DKD	SLC38A11	165752696-165812035	2	4.61E-09
WHRadjBMI-DKD	CALCRL	188207856-188313187	2	3.11E-08
WHRadjBMI-DKD	TIMP4	12194551-12200851	3	2.30E-10
WHRadjBMI-DKD	PPARG	12328867-12475855	3	2.51E-07
WHRadjBMI-DKD	SHISA5	48509197-48542259	3	2.53E-08
WHRadjBMI-DKD	WDR82	52288437-52322036	3	6.53E-09
WHRadjBMI-DKD	GLYCTK	52321105-52329272	3	2.44E-08
WHRadjBMI-DKD	SEMA3G	52467069-52479101	3	2.53E-08
WHRadjBMI-DKD	PBRM1	52579368-52719933	3	5.72E-08
WHRadjBMI-DKD	GNL3	52715172-52728508	3	2.24E-09
WHRadjBMI-DKD	NEK4	52744800-52804965	3	4.40E-10
WHRadjBMI-DKD	TMCC1	129366635-129612419	3	8.78E-08
WHRadjBMI-DKD	FAM13A	89647106-90032549	4	2.32E-10
WHRadjBMI-DKD	AC022431.2	55807394-55902059	5	3.80E-07
WHRadjBMI-DKD	SH3PXD2B	171752185-171881527	5	1.10E-07

WHRadjBMI-DKD	NSD1	176560026-176727216	5	4.80E-06
WHRadjBMI-DKD	CDKAL1	20534688-21232635	6	2.58E-09
WHRadjBMI-DKD	LRRC16A	25279306-25620758	6	2.47E-13
WHRadjBMI-DKD	SCGN	25652464-25702011	6	2.54E-08
WHRadjBMI-DKD	SLC17A4	25754927-25781419	6	8.36E-10
WHRadjBMI-DKD	SLC17A1	25783125-25832287	6	3.56E-07
WHRadjBMI-DKD	SLC17A3	25833294-25882514	6	8.27E-12
WHRadjBMI-DKD	SLC17A2	25912982-25930946	6	6.11E-08
WHRadjBMI-DKD	TRIM38	25963030-25987384	6	3.68E-11
WHRadjBMI-DKD	HIST1H1A	26017260-26018040	6	1.06E-09
WHRadjBMI-DKD	HIST1H3C	26045639-26046097	6	8.95E-11
WHRadjBMI-DKD	HFE	26087509-26098571	6	8.16E-10
WHRadjBMI-DKD	HIST1H2BC	26115101-26124154	6	2.41E-09
WHRadjBMI-DKD	HIST1H2AC	26124373-26139344	6	5.00E-10
WHRadjBMI-DKD	HIST1H2BD	26158349-26171577	6	8.89E-12
WHRadjBMI-DKD	HIST1H2BF	26199748-26200942	6	4.56E-14
WHRadjBMI-DKD	BTN3A2	26365387-26378546	6	1.65E-11
WHRadjBMI-DKD	BTN3A1	26402465-26415444	6	1.78E-11
WHRadjBMI-DKD	BTN3A3	26440700-26453643	6	6.07E-09
WHRadjBMI-DKD	BTN2A1	26458150-26476849	6	1.61E-10
WHRadjBMI-DKD	BTN1A1	26501449-26510650	6	3.38E-08
WHRadjBMI-DKD	ABT1	26597180-26600278	6	5.00E-10
WHRadjBMI-DKD	ZNF322	26636518-26659980	6	1.01E-18
WHRadjBMI-DKD	PRSS16	27215480-27224403	6	1.49E-11
WHRadjBMI-DKD	POM121L2	27253682-27279949	6	1.53E-09
WHRadjBMI-DKD	ZNF391	27342394-27371683	6	5.00E-10
WHRadjBMI-DKD	ZNF184	27418522-27440897	6	5.00E-10
WHRadjBMI-DKD	HIST1H2BL	27775257-27775709	6	5.00E-10
WHRadjBMI-DKD	HIST1H2AJ	27782112-27782607	6	3.97E-15
WHRadjBMI-DKD	HIST1H2BN	27806323-27823487	6	5.00E-16
WHRadjBMI-DKD	HIST1H2AL	27833034-27833606	6	5.46E-14

WHRadjBMI-DKD	HIST1H1B	27834570-27835359	6	5.00E-10
WHRadjBMI-DKD	HIST1H4L	27840926-27841289	6	1.33E-18
WHRadjBMI-DKD	HIST1H3J	27858093-27860884	6	3.80E-10
WHRadjBMI-DKD	OR2B2	27878963-27880174	6	5.74E-18
WHRadjBMI-DKD	ZNF165	28048753-28057341	6	1.80E-08
WHRadjBMI-DKD	ZSCAN16	28092338-28097860	6	1.81E-08
WHRadjBMI-DKD	ZKSCAN8	28109688-28127250	6	5.00E-10
WHRadjBMI-DKD	ZSCAN9	28192664-28201260	6	5.00E-10
WHRadjBMI-DKD	ZKSCAN4	28212401-28227011	6	4.39E-12
WHRadjBMI-DKD	PGBD1	28249314-28270326	6	5.00E-10
WHRadjBMI-DKD	ZSCAN31	28292470-28324048	6	5.59E-11
WHRadjBMI-DKD	ZKSCAN3	28317691-28336947	6	4.39E-15
WHRadjBMI-DKD	ZSCAN12	28346732-28367511	6	2.20E-18
WHRadjBMI-DKD	ZSCAN23	28399707-28411279	6	5.00E-10
WHRadjBMI-DKD	GPX6	28471073-28495992	6	5.20E-19
WHRadjBMI-DKD	SCAND3	28539407-28583989	6	2.35E-09
WHRadjBMI-DKD	TRIM27	28870779-28891766	6	1.64E-17
WHRadjBMI-DKD	OR5V1	29323007-29399744	6	1.44E-12
WHRadjBMI-DKD	OR12D3	29341200-29343068	6	2.44E-16
WHRadjBMI-DKD	OR11A1	29393281-29424848	6	2.45E-10
WHRadjBMI-DKD	UBD	29523292-29527702	6	6.80E-18
WHRadjBMI-DKD	GABBR1	29523406-29601753	6	5.27E-15
WHRadjBMI-DKD	MOG	29624758-29640149	6	3.86E-08
WHRadjBMI-DKD	ZFP57	29640169-29648887	6	5.00E-10
WHRadjBMI-DKD	HLA-F	29690552-29706305	6	1.21E-12
WHRadjBMI-DKD	HLA-A	29909037-29913661	6	3.77E-08
WHRadjBMI-DKD	ZNRD1	30026676-30032686	6	6.59E-21
WHRadjBMI-DKD	RNF39	30038043-30043664	6	5.00E-10
WHRadjBMI-DKD	TRIM31	30070674-30080883	6	4.27E-15
WHRadjBMI-DKD	TRIM10	30119722-30128711	6	4.80E-10
WHRadjBMI-DKD	TRIM15	30130993-30140473	6	5.00E-10

WHRadjBMI-DKD	TRIM26	30152232-30181204	6	5.00E-10
WHRadjBMI-DKD	TRIM39	30294256-30311506	6	5.00E-10
WHRadjBMI-DKD	TRIM39-RPP21	30297359-30314631	6	2.57E-10
WHRadjBMI-DKD	RPP21	30312908-30314661	6	9.08E-09
WHRadjBMI-DKD	GNL1	30509154-30524951	6	1.12E-27
WHRadjBMI-DKD	ABCF1	30539153-30564956	6	1.09E-26
WHRadjBMI-DKD	ATAT1	30594619-30614600	6	1.36E-10
WHRadjBMI-DKD	C6orf136	30614816-30620987	6	1.55E-28
WHRadjBMI-DKD	DHX16	30620896-30640814	6	4.84E-10
WHRadjBMI-DKD	PPP1R18	30644166-30655672	6	9.88E-28
WHRadjBMI-DKD	NRM	30655824-30659197	6	5.00E-10
WHRadjBMI-DKD	TUBB	30687978-30693203	6	2.21E-11
WHRadjBMI-DKD	FLOT1	30695486-30710510	6	1.73E-13
WHRadjBMI-DKD	DDR1	30844198-30867933	6	5.00E-16
WHRadjBMI-DKD	GTF2H4	30875961-30881883	6	5.00E-10
WHRadjBMI-DKD	VARs2	30876019-30894236	6	1.92E-11
WHRadjBMI-DKD	SFTA2	30899130-30899952	6	5.00E-10
WHRadjBMI-DKD	DPCR1	30908749-30921998	6	2.22E-16
WHRadjBMI-DKD	MUC21	30951495-30957680	6	5.00E-10
WHRadjBMI-DKD	MUC22	30978251-31003179	6	5.00E-10
WHRadjBMI-DKD	C6orf15	31079000-31080336	6	5.00E-10
WHRadjBMI-DKD	PSORS1C1	31082527-31107869	6	3.11E-15
WHRadjBMI-DKD	CDSN	31082867-31088223	6	2.89E-11
WHRadjBMI-DKD	PSORS1C2	31105313-31107127	6	9.83E-15
WHRadjBMI-DKD	CCHCR1	31110216-31126015	6	5.00E-10
WHRadjBMI-DKD	TCF19	31126319-31134936	6	3.33E-13
WHRadjBMI-DKD	POU5F1	31132119-31148508	6	5.00E-10
WHRadjBMI-DKD	HCG27	31165537-31171745	6	2.39E-15
WHRadjBMI-DKD	HLA-B	31321649-31324965	6	4.22E-23
WHRadjBMI-DKD	MICA	31371356-31383092	6	1.39E-15
WHRadjBMI-DKD	MICB	31462658-31478901	6	5.00E-10

WHRadjBMI-DKD	MCCD1	31496494-31498009	6	4.00E-15
WHRadjBMI-DKD	DDX39B	31497996-31510225	6	5.00E-10
WHRadjBMI-DKD	ATP6V1G2-DDX39B	31497996-31514385	6	2.25E-14
WHRadjBMI-DKD	ATP6V1G2	31512239-31516204	6	6.05E-15
WHRadjBMI-DKD	NFKBIL1	31514647-31526606	6	3.33E-15
WHRadjBMI-DKD	LTA	31539831-31542101	6	2.38E-10
WHRadjBMI-DKD	LST1	31553901-31556686	6	4.23E-13
WHRadjBMI-DKD	NCR3	31556672-31560762	6	3.11E-15
WHRadjBMI-DKD	AIF1	31582961-31584798	6	8.33E-13
WHRadjBMI-DKD	PRRC2A	31588497-31605548	6	2.34E-13
WHRadjBMI-DKD	BAG6	31606805-31620482	6	5.00E-16
WHRadjBMI-DKD	APOM	31620193-31625987	6	5.00E-10
WHRadjBMI-DKD	C6orf47	31626075-31628549	6	2.50E-12
WHRadjBMI-DKD	GPANK1	31629006-31634060	6	3.47E-11
WHRadjBMI-DKD	CSNK2B	31633013-31638120	6	2.70E-13
WHRadjBMI-DKD	CSNK2B-LY6G5B-1181	31633879-31641323	6	2.75E-14
WHRadjBMI-DKD	LY6G5B	31637944-31641553	6	5.00E-10
WHRadjBMI-DKD	LY6G5C	31644461-31651817	6	1.10E-10
WHRadjBMI-DKD	ABHD16A	31654726-31671221	6	5.16E-15
WHRadjBMI-DKD	XXbac-BPG32J3.20	31654739-31681849	6	6.11E-16
WHRadjBMI-DKD	LY6G6F	31674640-31685581	6	3.16E-15
WHRadjBMI-DKD	MEGT1	31674681-31685695	6	4.44E-15
WHRadjBMI-DKD	C6orf25	31686371-31694491	6	2.57E-10
WHRadjBMI-DKD	LY6G6C	31686425-31689622	6	5.00E-10
WHRadjBMI-DKD	DDAH2	31694815-31698394	6	5.00E-10
WHRadjBMI-DKD	CLIC1	31698358-31707540	6	5.00E-10
WHRadjBMI-DKD	MSH5	31707725-31732622	6	4.61E-15
WHRadjBMI-DKD	MSH5-SAPCD1	31707797-31732628	6	7.77E-16
WHRadjBMI-DKD	VWA7	31733367-31745108	6	8.60E-11
WHRadjBMI-DKD	VAR5	31745295-31763730	6	5.00E-10
WHRadjBMI-DKD	LSM2	31765173-31774761	6	5.00E-10

WHRadjBMI-DKD	HSPA1L	31777396-31783437	6	5.00E-10
WHRadjBMI-DKD	C6orf48	31802385-31807541	6	5.00E-10
WHRadjBMI-DKD	NEU1	31825436-31830683	6	5.41E-28
WHRadjBMI-DKD	SLC44A4	31830969-31846823	6	5.00E-10
WHRadjBMI-DKD	EHMT2	31847536-31865464	6	1.83E-15
WHRadjBMI-DKD	C2	31865562-31913449	6	1.03E-13
WHRadjBMI-DKD	CFB	31895475-31919825	6	2.33E-15
WHRadjBMI-DKD	CFB	31895475-31919861	6	2.33E-15
WHRadjBMI-DKD	NELFE	31919864-31926887	6	5.00E-10
WHRadjBMI-DKD	SKIV2L	31926857-31937532	6	2.83E-15
WHRadjBMI-DKD	STK19	31938868-31950598	6	8.15E-14
WHRadjBMI-DKD	CYP21A2	32006042-32009447	6	5.00E-10
WHRadjBMI-DKD	TNXB	32008931-32083111	6	5.00E-10
WHRadjBMI-DKD	ATF6B	32065953-32096030	6	3.89E-16
WHRadjBMI-DKD	FKBPL	32096484-32098068	6	1.95E-21
WHRadjBMI-DKD	PRRT1	32116136-32122150	6	5.73E-11
WHRadjBMI-DKD	PPT2	32121218-32134011	6	1.83E-15
WHRadjBMI-DKD	PPT2-EGFL8	32121622-32139755	6	3.05E-15
WHRadjBMI-DKD	EGFL8	32132360-32136058	6	5.00E-10
WHRadjBMI-DKD	AGPAT1	32135989-32145873	6	5.27E-11
WHRadjBMI-DKD	RNF5	32146131-32151930	6	1.11E-15
WHRadjBMI-DKD	AGER	32148745-32152101	6	2.21E-12
WHRadjBMI-DKD	PBX2	32152512-32157963	6	1.32E-13
WHRadjBMI-DKD	GPSM3	32158543-32163300	6	2.65E-12
WHRadjBMI-DKD	NOTCH4	32162620-32191844	6	5.00E-10
WHRadjBMI-DKD	C6orf10	32256303-32339684	6	7.79E-16
WHRadjBMI-DKD	BTNL2	32361740-32374905	6	6.06E-14
WHRadjBMI-DKD	HLA-DRA	32407619-32412823	6	1.29E-14
WHRadjBMI-DKD	HLA-DQA1	32595956-32614839	6	5.00E-10
WHRadjBMI-DKD	HLA-DQB1	32627244-32636160	6	5.00E-10
WHRadjBMI-DKD	HLA-DQA2	32709119-32714992	6	5.00E-10

WHRadjBMI-DKD	HLA-DQB2	32723875-32731311	6	5.00E-10
WHRadjBMI-DKD	HLA-DOB	32780540-32784825	6	3.66E-15
WHRadjBMI-DKD	TAP2	32781544-32806599	6	2.28E-15
WHRadjBMI-DKD	TAP2	32789610-32806557	6	5.00E-10
WHRadjBMI-DKD	PSMB8	32808494-32812480	6	5.00E-10
WHRadjBMI-DKD	PSMB9	32811913-32827362	6	2.66E-10
WHRadjBMI-DKD	TAP1	32812986-32821755	6	2.66E-10
WHRadjBMI-DKD	HLA-DMB	32902406-32908847	6	5.00E-10
WHRadjBMI-DKD	XXbac-BPG181M17.5	32905141-32920899	6	2.40E-13
WHRadjBMI-DKD	HLA-DMA	32916390-32936871	6	5.05E-15
WHRadjBMI-DKD	BRD2	32936437-32949282	6	5.00E-10
WHRadjBMI-DKD	HLA-DOA	32971955-32977389	6	3.01E-11
WHRadjBMI-DKD	HLA-DPA1	33032346-33048552	6	1.61E-15
WHRadjBMI-DKD	HLA-DPB1	33043703-33054978	6	3.89E-16
WHRadjBMI-DKD	COL11A2	33130458-33160276	6	2.74E-13
WHRadjBMI-DKD	RXRB	33161365-33168630	6	2.43E-09
WHRadjBMI-DKD	SLC39A7	33168222-33172216	6	1.68E-09
WHRadjBMI-DKD	B3GALT4	33244917-33252609	6	5.00E-10
WHRadjBMI-DKD	WDR46	33246885-33257304	6	8.17E-06
WHRadjBMI-DKD	PFDN6	33257079-33266178	6	2.17E-05
WHRadjBMI-DKD	TAPBP	33267471-33282164	6	2.64E-10
WHRadjBMI-DKD	ZBTB22	33282183-33285719	6	5.73E-09
WHRadjBMI-DKD	DAXX	33286335-33297046	6	9.09E-08
WHRadjBMI-DKD	KIFC1	33359313-33377701	6	2.41E-08
WHRadjBMI-DKD	GGNBP1	33551515-33556803	6	3.38E-11
WHRadjBMI-DKD	GRM4	33989628-34123399	6	8.96E-09
WHRadjBMI-DKD	RSPO3	127439749-127518910	6	8.98E-11
WHRadjBMI-DKD	SNX10	26331541-26413949	7	8.11E-10
WHRadjBMI-DKD	RP11-1102P16.1	72315675-72504260	8	4.98E-08
WHRadjBMI-DKD	ABCA1	107543283-107690518	9	3.32E-10
WHRadjBMI-DKD	TCF7L2	114710009-114927437	10	7.11E-15

WHRadjBMI-DKD	SIPA1	65405568-65418401	11	2.32E-08
WHRadjBMI-DKD	KAT5	65479467-65487075	11	1.45E-07
WHRadjBMI-DKD	RNASEH2C	65482367-65488418	11	4.05E-08
WHRadjBMI-DKD	SSPN	26274924-26452223	12	6.16E-07
WHRadjBMI-DKD	ITPR2	26490342-26986131	12	3.18E-09
WHRadjBMI-DKD	HOXC13	54332535-54340328	12	2.49E-08
WHRadjBMI-DKD	HOXC12	54348618-54352740	12	1.19E-07
WHRadjBMI-DKD	HCAR1	123104824-123215390	12	6.89E-12
WHRadjBMI-DKD	HIP1R	123319000-123347507	12	5.87E-09
WHRadjBMI-DKD	ABCB9	123405498-123466196	12	2.24E-08
WHRadjBMI-DKD	PITPNM2	123468027-123634562	12	4.93E-09
WHRadjBMI-DKD	MPHOSPH9	123636867-123728561	12	3.14E-08
WHRadjBMI-DKD	SETD8	123868320-123893905	12	3.06E-08
WHRadjBMI-DKD	DNAH10	124247042-124420753	12	5.55E-17
WHRadjBMI-DKD	CCDC92	124403207-124457378	12	1.05E-09
WHRadjBMI-DKD	DNAH10OS	124410971-124419531	12	2.66E-09
WHRadjBMI-DKD	ZNF664	124456392-124499986	12	1.04E-10
WHRadjBMI-DKD	FAM101A	124457788-124800570	12	5.00E-10
WHRadjBMI-DKD	DLEU1	50656307-51297372	13	1.64E-10
WHRadjBMI-DKD	RAI1	17584787-17714767	17	2.71E-07
WHRadjBMI-DKD	SREBF1	17713713-17740325	17	1.09E-08
WHRadjBMI-DKD	TOM1L2	17746828-17875736	17	4.42E-09
WHRadjBMI-DKD	LRRC48	17876127-17920203	17	4.86E-08
WHRadjBMI-DKD	ATPAF2	17880723-17942523	17	3.41E-08
WHRadjBMI-DKD	CEBPG	33864236-33873592	19	1.07E-08
WHRadjBMI-DKD	PEPD	33877856-34012700	19	6.15E-12
WHRadjBMI-DKD	PVRL2	45349432-45392485	19	4.78E-08
WHRadjBMI-DKD	TOMM40	45393826-45406946	19	4.87E-11
WHRadjBMI-DKD	APOE	45409011-45412650	19	4.66E-09
WHRadjBMI-DKD	APOC1	45417504-45422606	19	2.78E-12
WHRadjBMI-DKD	PRKD2	47177532-47220384	19	1.59E-08

WHRadjBMI-DKD	ZNRF3	29279580-29453475	22	2.53E-06
WHRadjBMI-DR	TBX15	119425669-119532179	1	3.33E-16
WHRadjBMI-DR	WARS2	119573839-119683294	1	6.51E-12
WHRadjBMI-DR	CFH	196621008-196716634	1	2.71E-08
WHRadjBMI-DR	CNTN2	205012325-205047627	1	3.44E-08
WHRadjBMI-DR	DSTYK	205111632-205180727	1	4.56E-08
WHRadjBMI-DR	COBLL1	165510134-165700189	2	5.00E-10
WHRadjBMI-DR	SLC38A11	165752696-165812035	2	2.02E-10
WHRadjBMI-DR	TWIST2	239756673-239795893	2	4.67E-08
WHRadjBMI-DR	TIMP4	12194551-12200851	3	8.17E-10
WHRadjBMI-DR	PPARG	12328867-12475855	3	6.04E-08
WHRadjBMI-DR	HEMK1	50606583-50622366	3	2.52E-08
WHRadjBMI-DR	MAPKAPK3	50648951-50686720	3	9.76E-09
WHRadjBMI-DR	DOCK3	50712672-51421629	3	2.67E-08
WHRadjBMI-DR	WDR82	52288437-52322036	3	1.92E-09
WHRadjBMI-DR	DNAH1	52350335-52434507	3	3.74E-08
WHRadjBMI-DR	NISCH	52489134-52527087	3	1.41E-08
WHRadjBMI-DR	STAB1	52529354-52558511	3	1.04E-09
WHRadjBMI-DR	NT5DC2	52558386-52569070	3	5.29E-09
WHRadjBMI-DR	SMIM4	52568029-52613253	3	5.00E-10
WHRadjBMI-DR	PBRM1	52579368-52719933	3	1.03E-08
WHRadjBMI-DR	GNL3	52715172-52728508	3	5.00E-10
WHRadjBMI-DR	GLT8D1	52728505-52740048	3	1.37E-09
WHRadjBMI-DR	NEK4	52744800-52804965	3	2.06E-10
WHRadjBMI-DR	ITIH1	52811603-52826078	3	2.68E-09
WHRadjBMI-DR	ITIH3	52828784-52843025	3	2.37E-08
WHRadjBMI-DR	ITIH4	52846991-52865495	3	3.45E-08
WHRadjBMI-DR	RP5-966M1.6	52847298-52869745	3	3.45E-08
WHRadjBMI-DR	IGF2BP2	185361527-185542844	3	1.75E-14
WHRadjBMI-DR	TMEM175	926175-952444	4	3.64E-08
WHRadjBMI-DR	FAM13A	89647106-90032549	4	6.59E-13

WHRadjBMI-DR	ANAPC10	145888264-146019693	4	8.40E-09
WHRadjBMI-DR	AC022431.2	55807394-55902059	5	3.46E-13
WHRadjBMI-DR	PAM	102089685-102366809	5	2.66E-11
WHRadjBMI-DR	GIN1	102421704-102455855	5	5.48E-10
WHRadjBMI-DR	PPIP5K2	102455853-102548500	5	3.94E-10
WHRadjBMI-DR	CDKAL1	20534688-21232635	6	1.22E-12
WHRadjBMI-DR	LRRC16A	25279306-25620758	6	3.06E-12
WHRadjBMI-DR	SCGN	25652464-25702011	6	2.43E-07
WHRadjBMI-DR	SLC17A4	25754927-25781419	6	5.00E-10
WHRadjBMI-DR	SLC17A1	25783125-25832287	6	1.51E-08
WHRadjBMI-DR	SLC17A3	25833294-25882514	6	1.77E-07
WHRadjBMI-DR	SLC17A2	25912982-25930946	6	9.28E-08
WHRadjBMI-DR	TRIM38	25963030-25987384	6	5.63E-10
WHRadjBMI-DR	HIST1H1A	26017260-26018040	6	1.53E-08
WHRadjBMI-DR	HIST1H3C	26045639-26046097	6	3.25E-09
WHRadjBMI-DR	HFE	26087509-26098571	6	1.18E-08
WHRadjBMI-DR	HIST1H2BC	26115101-26124154	6	5.56E-05
WHRadjBMI-DR	HIST1H2AC	26124373-26139344	6	2.01E-08
WHRadjBMI-DR	HIST1H2BD	26158349-26171577	6	2.76E-12
WHRadjBMI-DR	HIST1H2BF	26199748-26200942	6	2.51E-15
WHRadjBMI-DR	BTN3A2	26365387-26378546	6	1.19E-11
WHRadjBMI-DR	BTN2A2	26383324-26395102	6	1.68E-07
WHRadjBMI-DR	BTN3A1	26402465-26415444	6	9.85E-11
WHRadjBMI-DR	BTN3A3	26440700-26453643	6	5.00E-10
WHRadjBMI-DR	BTN2A1	26458150-26476849	6	5.00E-10
WHRadjBMI-DR	BTN1A1	26501449-26510650	6	2.73E-08
WHRadjBMI-DR	ABT1	26597180-26600278	6	5.00E-10
WHRadjBMI-DR	ZNF322	26636518-26659980	6	1.07E-18
WHRadjBMI-DR	PRSS16	27215480-27224403	6	3.44E-09
WHRadjBMI-DR	POM121L2	27253682-27279949	6	1.61E-08
WHRadjBMI-DR	ZNF391	27342394-27371683	6	5.00E-10

WHRadjBMI-DR	ZNF184	27418522-27440897	6	5.00E-10
WHRadjBMI-DR	HIST1H2BL	27775257-27775709	6	5.00E-10
WHRadjBMI-DR	HIST1H2AJ	27782112-27782607	6	2.22E-16
WHRadjBMI-DR	HIST1H2BN	27806323-27823487	6	2.87E-10
WHRadjBMI-DR	HIST1H2AL	27833034-27833606	6	4.25E-15
WHRadjBMI-DR	HIST1H1B	27834570-27835359	6	5.00E-10
WHRadjBMI-DR	HIST1H4L	27840926-27841289	6	1.48E-18
WHRadjBMI-DR	HIST1H3J	27858093-27860884	6	1.35E-13
WHRadjBMI-DR	OR2B2	27878963-27880174	6	5.00E-10
WHRadjBMI-DR	ZNF165	28048753-28057341	6	3.60E-07
WHRadjBMI-DR	ZSCAN16	28092338-28097860	6	7.16E-06
WHRadjBMI-DR	ZKSCAN8	28109688-28127250	6	7.91E-09
WHRadjBMI-DR	ZSCAN9	28192664-28201260	6	2.58E-11
WHRadjBMI-DR	ZKSCAN4	28212401-28227011	6	9.06E-12
WHRadjBMI-DR	PGBD1	28249314-28270326	6	2.26E-13
WHRadjBMI-DR	ZSCAN31	28292470-28324048	6	8.32E-13
WHRadjBMI-DR	ZKSCAN3	28317691-28336947	6	6.55E-15
WHRadjBMI-DR	ZSCAN12	28346732-28367511	6	5.00E-10
WHRadjBMI-DR	ZSCAN23	28399707-28411279	6	2.37E-10
WHRadjBMI-DR	GPX6	28471073-28495992	6	3.53E-10
WHRadjBMI-DR	GPX5	28493702-28502729	6	2.78E-10
WHRadjBMI-DR	SCAND3	28539407-28583989	6	6.40E-13
WHRadjBMI-DR	TRIM27	28870779-28891766	6	5.00E-10
WHRadjBMI-DR	ZNF311	28962562-28973093	6	1.33E-08
WHRadjBMI-DR	OR2J3	29079668-29080603	6	2.76E-08
WHRadjBMI-DR	OR5V1	29323007-29399744	6	3.33E-15
WHRadjBMI-DR	OR12D3	29341200-29343068	6	5.98E-11
WHRadjBMI-DR	OR11A1	29393281-29424848	6	5.00E-10
WHRadjBMI-DR	UBD	29523292-29527702	6	5.00E-10
WHRadjBMI-DR	GABBR1	29523406-29601753	6	8.96E-13
WHRadjBMI-DR	OR2H2	29555683-29556745	6	4.88E-10

WHRadjBMI-DR	MOG	29624758-29640149	6	5.00E-10
WHRadjBMI-DR	ZFP57	29640169-29648887	6	1.80E-12
WHRadjBMI-DR	HLA-F	29690552-29706305	6	6.00E-15
WHRadjBMI-DR	HLA-G	29794744-29798902	6	1.57E-07
WHRadjBMI-DR	HLA-A	29909037-29913661	6	5.00E-10
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WHRadjBMI-DR	PPP1R11	30034486-30038110	6	1.77E-09
WHRadjBMI-DR	RNF39	30038043-30043664	6	4.69E-13
WHRadjBMI-DR	TRIM31	30070674-30080883	6	7.99E-15
WHRadjBMI-DR	TRIM40	30103885-30116512	6	1.16E-09
WHRadjBMI-DR	TRIM10	30119722-30128711	6	5.66E-15
WHRadjBMI-DR	TRIM15	30130993-30140473	6	5.00E-10
WHRadjBMI-DR	TRIM26	30152232-30181204	6	3.50E-15
WHRadjBMI-DR	TRIM39	30294256-30311506	6	6.83E-15
WHRadjBMI-DR	TRIM39-RPP21	30297359-30314631	6	7.27E-15
WHRadjBMI-DR	RPP21	30312908-30314661	6	1.32E-10
WHRadjBMI-DR	GNL1	30509154-30524951	6	9.38E-31
WHRadjBMI-DR	PRR3	30524663-30531500	6	1.30E-10
WHRadjBMI-DR	ABCF1	30539153-30564956	6	5.00E-10
WHRadjBMI-DR	PPP1R10	30568177-30586389	6	7.23E-13
WHRadjBMI-DR	ATAT1	30594619-30614600	6	1.10E-11
WHRadjBMI-DR	C6orf136	30614816-30620987	6	1.43E-31
WHRadjBMI-DR	DHX16	30620896-30640814	6	5.00E-10
WHRadjBMI-DR	PPP1R18	30644166-30655672	6	6.80E-11
WHRadjBMI-DR	NRM	30655824-30659197	6	2.52E-10
WHRadjBMI-DR	MDC1	30667584-30685666	6	5.00E-10
WHRadjBMI-DR	TUBB	30687978-30693203	6	4.22E-10
WHRadjBMI-DR	FLOT1	30695486-30710510	6	3.67E-12
WHRadjBMI-DR	IER3	30710976-30712331	6	4.76E-11
WHRadjBMI-DR	DDR1	30844198-30867933	6	2.26E-12
WHRadjBMI-DR	GTF2H4	30875961-30881883	6	5.00E-10

WHRadjBMI-DR	VARs2	30876019-30894236	6	9.08E-11
WHRadjBMI-DR	SFTA2	30899130-30899952	6	5.00E-10
WHRadjBMI-DR	DPCR1	30908749-30921998	6	1.49E-14
WHRadjBMI-DR	MUC21	30951495-30957680	6	5.00E-10
WHRadjBMI-DR	MUC22	30978251-31003179	6	5.00E-10
WHRadjBMI-DR	C6orf15	31079000-31080336	6	1.40E-11
WHRadjBMI-DR	PSORS1C1	31082527-31107869	6	5.00E-10
WHRadjBMI-DR	CDSN	31082867-31088223	6	9.27E-15
WHRadjBMI-DR	PSORS1C2	31105313-31107127	6	3.33E-15
WHRadjBMI-DR	CCHCR1	31110216-31126015	6	5.00E-10
WHRadjBMI-DR	TCF19	31126319-31134936	6	5.00E-10
WHRadjBMI-DR	POU5F1	31132119-31148508	6	5.00E-10
WHRadjBMI-DR	HCG27	31165537-31171745	6	8.33E-15
WHRadjBMI-DR	HLA-B	31321649-31324965	6	5.73E-12
WHRadjBMI-DR	MICA	31371356-31383092	6	5.00E-10
WHRadjBMI-DR	MICB	31462658-31478901	6	2.66E-15
WHRadjBMI-DR	MCCD1	31496494-31498009	6	5.66E-15
WHRadjBMI-DR	DDX39B	31497996-31510225	6	5.00E-10
WHRadjBMI-DR	ATP6V1G2-DDX39B	31497996-31514385	6	7.72E-15
WHRadjBMI-DR	ATP6V1G2	31512239-31516204	6	3.89E-16
WHRadjBMI-DR	NFKBIL1	31514647-31526606	6	5.16E-15
WHRadjBMI-DR	LTA	31539831-31542101	6	5.00E-10
WHRadjBMI-DR	LST1	31553901-31556686	6	5.75E-17
WHRadjBMI-DR	NCR3	31556672-31560762	6	2.05E-15
WHRadjBMI-DR	AIF1	31582961-31584798	6	5.04E-12
WHRadjBMI-DR	PRRC2A	31588497-31605548	6	3.84E-14
WHRadjBMI-DR	BAG6	31606805-31620482	6	7.57E-12
WHRadjBMI-DR	APOM	31620193-31625987	6	5.00E-10
WHRadjBMI-DR	C6orf47	31626075-31628549	6	5.00E-10
WHRadjBMI-DR	GPANK1	31629006-31634060	6	5.00E-10
WHRadjBMI-DR	CSNK2B	31633013-31638120	6	2.94E-15

WHRadjBMI-DR	CSNK2B-LY6G5B-1181	31633879-31641323	6	1.68E-14
WHRadjBMI-DR	LY6G5B	31637944-31641553	6	5.00E-10
WHRadjBMI-DR	LY6G5C	31644461-31651817	6	5.08E-12
WHRadjBMI-DR	ABHD16A	31654726-31671221	6	6.72E-15
WHRadjBMI-DR	XXbac-BPG32J3.20	31654739-31681849	6	5.00E-10
WHRadjBMI-DR	LY6G6F	31674640-31685581	6	6.49E-15
WHRadjBMI-DR	MEGT1	31674681-31685695	6	2.78E-16
WHRadjBMI-DR	C6orf25	31686371-31694491	6	5.00E-10
WHRadjBMI-DR	LY6G6C	31686425-31689622	6	5.00E-10
WHRadjBMI-DR	DDAH2	31694815-31698394	6	1.34E-11
WHRadjBMI-DR	CLIC1	31698358-31707540	6	5.00E-10
WHRadjBMI-DR	MSH5	31707725-31732622	6	5.00E-10
WHRadjBMI-DR	MSH5-SAPCD1	31707797-31732628	6	3.33E-10
WHRadjBMI-DR	VWA7	31733367-31745108	6	7.66E-11
WHRadjBMI-DR	VAR5	31745295-31763730	6	4.15E-14
WHRadjBMI-DR	LSM2	31765173-31774761	6	5.00E-10
WHRadjBMI-DR	HSPA1L	31777396-31783437	6	2.77E-10
WHRadjBMI-DR	C6orf48	31802385-31807541	6	1.00E-50
WHRadjBMI-DR	NEU1	31825436-31830683	6	4.77E-44
WHRadjBMI-DR	SLC44A4	31830969-31846823	6	1.26E-13
WHRadjBMI-DR	EHMT2	31847536-31865464	6	5.00E-10
WHRadjBMI-DR	C2	31865562-31913449	6	1.83E-15
WHRadjBMI-DR	CFB	31895475-31919825	6	2.05E-15
WHRadjBMI-DR	CFB	31895475-31919861	6	2.05E-15
WHRadjBMI-DR	NELFE	31919864-31926887	6	5.00E-10
WHRadjBMI-DR	SKIV2L	31926857-31937532	6	4.39E-15
WHRadjBMI-DR	STK19	31938868-31950598	6	4.93E-13
WHRadjBMI-DR	CYP21A2	32006042-32009447	6	4.70E-10
WHRadjBMI-DR	TNXB	32008931-32083111	6	2.72E-15
WHRadjBMI-DR	ATF6B	32065953-32096030	6	5.00E-10
WHRadjBMI-DR	FKBPL	32096484-32098068	6	3.25E-30

WHRadjBMI-DR	PRRT1	32116136-32122150	6	2.20E-10
WHRadjBMI-DR	PPT2	32121218-32134011	6	1.05E-15
WHRadjBMI-DR	PPT2-EGFL8	32121622-32139755	6	5.00E-10
WHRadjBMI-DR	EGFL8	32132360-32136058	6	5.00E-10
WHRadjBMI-DR	AGPAT1	32135989-32145873	6	7.10E-11
WHRadjBMI-DR	RNF5	32146131-32151930	6	5.00E-10
WHRadjBMI-DR	AGER	32148745-32152101	6	8.66E-12
WHRadjBMI-DR	PBX2	32152512-32157963	6	3.44E-14
WHRadjBMI-DR	GPSM3	32158543-32163300	6	5.00E-10
WHRadjBMI-DR	NOTCH4	32162620-32191844	6	5.00E-10
WHRadjBMI-DR	C6orf10	32256303-32339684	6	1.11E-15
WHRadjBMI-DR	BTNL2	32361740-32374905	6	1.87E-12
WHRadjBMI-DR	HLA-DRA	32407619-32412823	6	5.00E-10
WHRadjBMI-DR	HLA-DQA1	32595956-32614839	6	1.48E-14
WHRadjBMI-DR	HLA-DQB1	32627244-32636160	6	5.00E-10
WHRadjBMI-DR	HLA-DQA2	32709119-32714992	6	5.00E-10
WHRadjBMI-DR	HLA-DQB2	32723875-32731311	6	5.00E-10
WHRadjBMI-DR	HLA-DOB	32780540-32784825	6	2.22E-16
WHRadjBMI-DR	TAP2	32781544-32806599	6	5.41E-14
WHRadjBMI-DR	TAP2	32789610-32806557	6	4.44E-15
WHRadjBMI-DR	PSMB8	32808494-32812480	6	5.00E-10
WHRadjBMI-DR	PSMB9	32811913-32827362	6	5.44E-15
WHRadjBMI-DR	TAP1	32812986-32821755	6	5.44E-15
WHRadjBMI-DR	HLA-DMB	32902406-32908847	6	2.96E-10
WHRadjBMI-DR	XXbac-BPG181M17.5	32905141-32920899	6	5.00E-10
WHRadjBMI-DR	HLA-DMA	32916390-32936871	6	1.94E-15
WHRadjBMI-DR	BRD2	32936437-32949282	6	4.50E-15
WHRadjBMI-DR	HLA-DOA	32971955-32977389	6	1.17E-15
WHRadjBMI-DR	HLA-DPA1	33032346-33048552	6	4.22E-15
WHRadjBMI-DR	HLA-DPB1	33043703-33054978	6	4.44E-15
WHRadjBMI-DR	COL11A2	33130458-33160276	6	5.00E-10

WHRadjBMI-DR	RXRB	33161365-33168630	6	5.47E-13
WHRadjBMI-DR	SLC39A7	33168222-33172216	6	2.86E-13
WHRadjBMI-DR	B3GALT4	33244917-33252609	6	3.52E-08
WHRadjBMI-DR	WDR46	33246885-33257304	6	5.00E-10
WHRadjBMI-DR	PFDN6	33257079-33266178	6	6.63E-08
WHRadjBMI-DR	TAPBP	33267471-33282164	6	1.57E-13
WHRadjBMI-DR	ZBTB22	33282183-33285719	6	1.35E-14
WHRadjBMI-DR	DAXX	33286335-33297046	6	3.87E-09
WHRadjBMI-DR	KIFC1	33359313-33377701	6	4.60E-11
WHRadjBMI-DR	SYNGAP1	33387847-33421466	6	5.00E-10
WHRadjBMI-DR	GGNBP1	33551515-33556803	6	1.16E-16
WHRadjBMI-DR	ITPR3	33588142-33664351	6	1.52E-13
WHRadjBMI-DR	IP6K3	33689444-33714762	6	1.06E-08
WHRadjBMI-DR	GRM4	33989628-34123399	6	1.96E-12
WHRadjBMI-DR	HMGA1	34204650-34214008	6	5.00E-10
WHRadjBMI-DR	C6orf1	34214157-34217247	6	5.00E-10
WHRadjBMI-DR	NUDT3	34247456-34360451	6	8.51E-10
WHRadjBMI-DR	RPS10-NUDT3	34256547-34393825	6	3.55E-10
WHRadjBMI-DR	RPS10	34385231-34393902	6	4.85E-07
WHRadjBMI-DR	PACSIN1	34433916-34503006	6	1.17E-08
WHRadjBMI-DR	CENPW	126661320-126670021	6	1.52E-09
WHRadjBMI-DR	RSPO3	127439749-127518910	6	5.63E-12
WHRadjBMI-DR	ITGB8	20370325-20455377	7	4.78E-08
WHRadjBMI-DR	SNX10	26331541-26413949	7	1.65E-08
WHRadjBMI-DR	JAZF1	27870192-28220362	7	4.14E-14
WHRadjBMI-DR	BAZ1B	72854728-72936608	7	2.08E-06
WHRadjBMI-DR	TBL2	72983262-72993121	7	1.36E-09
WHRadjBMI-DR	MLXIPL	73007524-73038873	7	6.16E-10
WHRadjBMI-DR	RP11-1102P16.1	72315675-72504260	8	1.11E-08
WHRadjBMI-DR	MMP16	89044237-89340254	8	6.14E-05
WHRadjBMI-DR	ABCA1	107543283-107690518	9	4.93E-09

WHRadjBMI-DR	IDE	94211441-94333833	10	7.90E-05
WHRadjBMI-DR	KIF11	94353043-94415150	10	4.48E-05
WHRadjBMI-DR	TCF7L2	114710009-114927437	10	5.00E-10
WHRadjBMI-DR	NUCB2	17229700-17371521	11	9.66E-09
WHRadjBMI-DR	NCR3LG1	17373273-17398888	11	1.14E-07
WHRadjBMI-DR	KCNJ11	17407406-17410878	11	3.01E-11
WHRadjBMI-DR	ABCC8	17414432-17498449	11	1.03E-09
WHRadjBMI-DR	SIPA1	65405568-65418401	11	2.20E-05
WHRadjBMI-DR	RELA	65421067-65430565	11	1.57E-06
WHRadjBMI-DR	KAT5	65479467-65487075	11	1.04E-08
WHRadjBMI-DR	RNASEH2C	65482367-65488418	11	2.77E-08
WHRadjBMI-DR	SSPN	26274924-26452223	12	1.04E-14
WHRadjBMI-DR	ITPR2	26490342-26986131	12	5.00E-10
WHRadjBMI-DR	RP11-834C11.12	54379629-54428672	12	1.18E-12
WHRadjBMI-DR	HOXC6	54384408-54424607	12	2.51E-08
WHRadjBMI-DR	HOXC4	54410715-54449813	12	9.11E-10
WHRadjBMI-DR	HOXC5	54426637-54429142	12	8.70E-12
WHRadjBMI-DR	SH2B3	111843752-111889427	12	2.02E-07
WHRadjBMI-DR	ATXN2	111890018-112037480	12	5.00E-10
WHRadjBMI-DR	BRAP	112079950-112123790	12	5.50E-11
WHRadjBMI-DR	ACAD10	112123857-112194903	12	4.36E-08
WHRadjBMI-DR	RP11-162P23.2	112191694-112229222	12	8.94E-11
WHRadjBMI-DR	NAA25	112464500-112546826	12	2.85E-09
WHRadjBMI-DR	HECTD4	112597992-112819896	12	1.54E-09
WHRadjBMI-DR	PTPN11	112856155-112947717	12	2.12E-05
WHRadjBMI-DR	HCAR1	123104824-123215390	12	1.61E-11
WHRadjBMI-DR	HIP1R	123319000-123347507	12	1.99E-09
WHRadjBMI-DR	SBNO1	123773656-123849390	12	2.14E-10
WHRadjBMI-DR	RILPL2	123899936-123921264	12	5.18E-10
WHRadjBMI-DR	RILPL1	123955925-124018265	12	4.09E-08
WHRadjBMI-DR	ATP6V0A2	124196865-124246302	12	1.25E-08

WHRadjBMI-DR	DNAH10	124247042-124420753	12	1.35E-13
WHRadjBMI-DR	ZNF664	124456392-124499986	12	1.71E-09
WHRadjBMI-DR	FAM101A	124457788-124800570	12	5.00E-10
WHRadjBMI-DR	DLEU1	50656307-51297372	13	2.26E-12
WHRadjBMI-DR	COL4A2	110958159-111165374	13	6.63E-10
WHRadjBMI-DR	ARID4A	58765103-58840605	14	2.50E-08
WHRadjBMI-DR	ZNF423	49521435-49891830	16	1.98E-08
WHRadjBMI-DR	PLEKHG4	67311413-67323402	16	4.32E-09
WHRadjBMI-DR	KCTD19	67323331-67360666	16	5.59E-09
WHRadjBMI-DR	LRRC36	67360701-67419106	16	5.00E-10
WHRadjBMI-DR	TPPP3	67423712-67427438	16	2.52E-09
WHRadjBMI-DR	CMIP	81478775-81745367	16	5.00E-10
WHRadjBMI-DR	MAPT	43971748-44105700	17	1.72E-10
WHRadjBMI-DR	CEBPG	33864236-33873592	19	9.47E-09
WHRadjBMI-DR	PEPD	33877856-34012700	19	5.22E-15
WHRadjBMI-DR	PVRL2	45349432-45392485	19	9.31E-08
WHRadjBMI-DR	TOMM40	45393826-45406946	19	1.73E-11
WHRadjBMI-DR	APOE	45409011-45412650	19	5.00E-10
WHRadjBMI-DR	APOC1	45417504-45422606	19	5.00E-10
WHRadjBMI-DR	EYA2	45523263-45817492	20	2.41E-11
WHRadjBMI-DR	ZNRF3	29279580-29453475	22	7.94E-09
BMI-DN	GPR61	110082494-110091028	1	2.25E-08
BMI-DN	NAV1	201592411-201796102	1	1.12E-09
BMI-DN	IPO9	201798269-201853422	1	9.03E-10
BMI-DN	SHISA4	201857808-201861434	1	3.37E-10
BMI-DN	LMOD1	201865580-201915715	1	8.65E-07
BMI-DN	EFR3B	25264999-25378243	2	3.80E-08
BMI-DN	PTPRN	220154345-220174370	2	1.49E-08
BMI-DN	NLGN1	173114074-174004434	3	5.00E-10
BMI-DN	ETV5	185764097-185828107	3	1.18E-07
BMI-DN	DGKG	185823457-186080026	3	6.61E-09

BMI-DN	ZNF131	43065278-43192123	5	1.45E-06
BMI-DN	NIM1K	43192173-43280952	5	9.13E-06
BMI-DN	HMGCR	74632154-74657929	5	2.74E-09
BMI-DN	COL4A3BP	74664311-74807963	5	2.57E-10
BMI-DN	POLK	74807581-74896969	5	2.33E-12
BMI-DN	ANKDD1B	74907284-74967671	5	6.47E-14
BMI-DN	POC5	74969949-75013313	5	4.04E-09
BMI-DN	HFE	26087509-26098571	6	1.68E-08
BMI-DN	HIST1H2BC	26115101-26124154	6	4.85E-07
BMI-DN	HIST1H2AC	26124373-26139344	6	4.03E-08
BMI-DN	BTN2A1	26458150-26476849	6	4.57E-08
BMI-DN	SCAND3	28539407-28583989	6	3.11E-10
BMI-DN	OR5V1	29323007-29399744	6	1.22E-08
BMI-DN	DDR1	30844198-30867933	6	4.80E-08
BMI-DN	SFTA2	30899130-30899952	6	1.35E-08
BMI-DN	DPCR1	30908749-30921998	6	1.32E-08
BMI-DN	PSORS1C1	31082527-31107869	6	5.26E-08
BMI-DN	CCHCR1	31110216-31126015	6	6.46E-07
BMI-DN	TCF19	31126319-31134936	6	2.24E-08
BMI-DN	POU5F1	31132119-31148508	6	1.55E-09
BMI-DN	HCG27	31165537-31171745	6	3.88E-08
BMI-DN	HLA-B	31321649-31324965	6	6.48E-09
BMI-DN	MICA	31371356-31383092	6	6.14E-10
BMI-DN	MICB	31462658-31478901	6	1.29E-09
BMI-DN	DDX39B	31497996-31510225	6	5.79E-10
BMI-DN	ATP6V1G2-DDX39B	31497996-31514385	6	5.94E-10
BMI-DN	ATP6V1G2	31512239-31516204	6	6.09E-10
BMI-DN	NCR3	31556672-31560762	6	2.01E-10
BMI-DN	AIF1	31582961-31584798	6	4.62E-09
BMI-DN	PRRC2A	31588497-31605548	6	5.27E-15
BMI-DN	BAG6	31606805-31620482	6	5.00E-10

BMI-DN	APOM	31620193-31625987	6	6.51E-13
BMI-DN	C6orf47	31626075-31628549	6	1.33E-19
BMI-DN	GPANK1	31629006-31634060	6	4.56E-14
BMI-DN	CSNK2B	31633013-31638120	6	5.00E-10
BMI-DN	CSNK2B-LY6G5B-1181	31633879-31641323	6	5.00E-10
BMI-DN	LY6G5B	31637944-31641553	6	1.94E-09
BMI-DN	LY6G5C	31644461-31651817	6	1.77E-09
BMI-DN	ABHD16A	31654726-31671221	6	5.00E-10
BMI-DN	XXbac-BPG32J3.20	31654739-31681849	6	5.00E-10
BMI-DN	LY6G6F	31674640-31685581	6	8.07E-13
BMI-DN	MEGT1	31674681-31685695	6	8.07E-13
BMI-DN	C6orf25	31686371-31694491	6	1.53E-10
BMI-DN	LY6G6C	31686425-31689622	6	1.53E-10
BMI-DN	CLIC1	31698358-31707540	6	6.18E-13
BMI-DN	MSH5	31707725-31732622	6	7.64E-09
BMI-DN	MSH5-SAPCD1	31707797-31732628	6	7.64E-09
BMI-DN	VWA7	31733367-31745108	6	1.06E-12
BMI-DN	VAR5	31745295-31763730	6	8.99E-11
BMI-DN	LSM2	31765173-31774761	6	9.99E-08
BMI-DN	C6orf48	31802385-31807541	6	2.87E-12
BMI-DN	SLC44A4	31830969-31846823	6	1.82E-10
BMI-DN	EHMT2	31847536-31865464	6	1.28E-11
BMI-DN	C2	31865562-31913449	6	6.68E-14
BMI-DN	CFB	31895475-31919825	6	5.00E-10
BMI-DN	CFB	31895475-31919861	6	5.00E-10
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BMI-DN	STK19	31938868-31950598	6	1.11E-08
BMI-DN	TNXB	32008931-32083111	6	9.08E-14
BMI-DN	ATF6B	32065953-32096030	6	2.26E-08
BMI-DN	PRRT1	32116136-32122150	6	2.12E-09
BMI-DN	PPT2	32121218-32134011	6	4.17E-13

BMI-DN	PPT2-EGFL8	32121622-32139755	6	1.09E-12
BMI-DN	EGFL8	32132360-32136058	6	5.00E-10
BMI-DN	AGPAT1	32135989-32145873	6	5.00E-10
BMI-DN	RNF5	32146131-32151930	6	6.06E-08
BMI-DN	AGER	32148745-32152101	6	5.00E-10
BMI-DN	PBX2	32152512-32157963	6	1.89E-15
BMI-DN	GPSM3	32158543-32163300	6	5.00E-10
BMI-DN	NOTCH4	32162620-32191844	6	5.72E-15
BMI-DN	C6orf10	32256303-32339684	6	6.33E-15
BMI-DN	BTNL2	32361740-32374905	6	5.27E-14
BMI-DN	HLA-DRA	32407619-32412823	6	1.78E-15
BMI-DN	HLA-DQA1	32595956-32614839	6	5.00E-15
BMI-DN	HLA-DQB1	32627244-32636160	6	8.88E-15
BMI-DN	HLA-DQA2	32709119-32714992	6	2.64E-13
BMI-DN	HLA-DQB2	32723875-32731311	6	1.31E-10
BMI-DN	HLA-DOB	32780540-32784825	6	5.00E-10
BMI-DN	TAP2	32781544-32806599	6	6.77E-15
BMI-DN	TAP2	32789610-32806557	6	1.28E-15
BMI-DN	PSMB8	32808494-32812480	6	7.62E-13
BMI-DN	PSMB9	32811913-32827362	6	2.20E-14
BMI-DN	TAP1	32812986-32821755	6	9.71E-13
BMI-DN	HLA-DPA1	33032346-33048552	6	2.32E-08
BMI-DN	BAK1	33540329-33548019	6	8.03E-13
BMI-DN	GGNBP1	33551515-33556803	6	2.62E-13
BMI-DN	ITPR3	33588142-33664351	6	4.69E-13
BMI-DN	MLN	33762450-33771788	6	2.26E-06
BMI-DN	C6orf106	34555065-34664636	6	1.50E-05
BMI-DN	SNRPC	34725183-34741571	6	1.16E-09
BMI-DN	UHRF1BP1	34759857-34850915	6	4.63E-08
BMI-DN	TFAP2B	50786436-50815326	6	6.37E-09
BMI-DN	GATA4	11534468-11617511	8	2.87E-08

BMI-DN	CCDC171	15552895-16061661	9	1.22E-10
BMI-DN	TCF7L2	114710009-114927437	10	1.42E-09
BMI-DN	BDNF	27676440-27743605	11	5.70E-11
BMI-DN	NCKAP5L	50184929-50222533	12	2.64E-09
BMI-DN	FAIM2	50260679-50298000	12	2.20E-09
BMI-DN	RAB5B	56367697-56388490	12	6.27E-11
BMI-DN	SUOX	56390964-56400425	12	1.85E-08
BMI-DN	IKZF4	56401443-56432219	12	5.00E-10
BMI-DN	ERBB3	56473641-56497289	12	7.29E-07
BMI-DN	NRXN3	78708734-80330762	14	1.02E-08
BMI-DN	TRAF3	103243813-103377837	14	1.27E-08
BMI-DN	MAP2K5	67835047-68099461	15	1.21E-10
BMI-DN	SKOR1	68112042-68126899	15	9.43E-09
BMI-DN	ADCY9	4003388-4166186	16	3.28E-08
BMI-DN	SBK1	28303840-28335170	16	1.93E-07
BMI-DN	IL27	28510683-28523372	16	3.84E-08
BMI-DN	ASPHD1	29911696-29931185	16	2.54E-08
BMI-DN	KCTD13	29916333-29938356	16	2.54E-08
BMI-DN	TMEM219	29952206-29984373	16	1.30E-07
BMI-DN	TAOK2	29984962-30003582	16	4.05E-07
BMI-DN	INO80E	30006615-30017114	16	5.00E-10
BMI-DN	DOC2A	30016830-30034591	16	2.38E-07
BMI-DN	FAM57B	30035748-30064299	16	1.04E-05
BMI-DN	ALDOA	30064411-30081778	16	1.37E-07
BMI-DN	PPP4C	30087299-30096698	16	1.42E-08
BMI-DN	TBX6	30097114-30103208	16	1.85E-08
BMI-DN	GDPD3	30116131-30125177	16	3.08E-08
BMI-DN	FTO	53737875-54155853	16	1.53E-13
BMI-DN	MYO19	34851477-34899284	17	2.67E-08
BMI-DN	C18orf8	21083473-21111746	18	2.35E-10
BMI-DN	NPC1	21086148-21166862	18	2.46E-08

BMI-DN	TNRC6B	40440821-40731812	22	3.44E-09
HDL-C-DN	MACF1	39546988-39952849	1	5.00E-10
HDL-C-DN	BMP8A	39957318-39991607	1	1.61E-07
HDL-C-DN	PABPC4	40026488-40042462	1	5.00E-10
HDL-C-DN	MTF2	93544792-93604638	1	4.46E-08
HDL-C-DN	DR1	93811445-93835055	1	7.34E-08
HDL-C-DN	CELSR2	109792641-109818372	1	5.00E-10
HDL-C-DN	GOLPH3L	150618701-150669630	1	3.77E-06
HDL-C-DN	CTSS	150702672-150738433	1	7.16E-08
HDL-C-DN	ARNT	150782181-150849244	1	1.29E-10
HDL-C-DN	CERS2	150933059-150947479	1	1.48E-10
HDL-C-DN	ANXA9	150954493-150968110	1	1.41E-09
HDL-C-DN	GALNT2	230193536-230417870	1	5.49E-14
HDL-C-DN	APOB	21224301-21266945	2	1.31E-08
HDL-C-DN	CEP68	65283500-65314138	2	5.86E-12
HDL-C-DN	RAB1A	65297835-65357240	2	2.60E-09
HDL-C-DN	CPS1	211342406-211543831	2	5.00E-10
HDL-C-DN	PPARG	12328867-12475855	3	4.32E-09
HDL-C-DN	MSL2	135867764-135916083	3	5.58E-09
HDL-C-DN	PCCB	135969148-136056738	3	1.87E-08
HDL-C-DN	STAG1	136055077-136471220	3	8.64E-08
HDL-C-DN	ETV5	185764097-185828107	3	5.61E-08
HDL-C-DN	DGKG	185823457-186080026	3	1.43E-10
HDL-C-DN	SLC39A8	103172198-103352415	4	2.57E-10
HDL-C-DN	AC022431.2	55807394-55902059	5	1.77E-09
HDL-C-DN	POC5	74969949-75013313	5	4.80E-08
HDL-C-DN	SLC17A2	25912982-25930946	6	4.31E-08
HDL-C-DN	HIST1H2BD	26158349-26171577	6	2.63E-08
HDL-C-DN	HIST1H2BF	26199748-26200942	6	1.58E-08
HDL-C-DN	BTN3A1	26402465-26415444	6	8.88E-09
HDL-C-DN	BTN3A3	26440700-26453643	6	6.85E-09

HDL-C-DN	BTN2A1	26458150-26476849	6	1.02E-08
HDL-C-DN	ABT1	26597180-26600278	6	1.24E-08
HDL-C-DN	ZNF322	26636518-26659980	6	8.07E-09
HDL-C-DN	POM121L2	27253682-27279949	6	2.89E-09
HDL-C-DN	ZNF391	27342394-27371683	6	2.17E-07
HDL-C-DN	ZNF184	27418522-27440897	6	1.18E-09
HDL-C-DN	HIST1H2BL	27775257-27775709	6	5.00E-10
HDL-C-DN	HIST1H2AJ	27782112-27782607	6	1.30E-08
HDL-C-DN	HIST1H2BN	27806323-27823487	6	7.18E-10
HDL-C-DN	HIST1H2AL	27833034-27833606	6	1.06E-08
HDL-C-DN	HIST1H1B	27834570-27835359	6	3.56E-06
HDL-C-DN	HIST1H4L	27840926-27841289	6	1.59E-10
HDL-C-DN	HIST1H3J	27858093-27860884	6	2.38E-06
HDL-C-DN	OR2B2	27878963-27880174	6	7.01E-11
HDL-C-DN	ZNF165	28048753-28057341	6	2.06E-08
HDL-C-DN	ZSCAN16	28092338-28097860	6	7.70E-07
HDL-C-DN	ZKSCAN8	28109688-28127250	6	5.00E-10
HDL-C-DN	ZSCAN9	28192664-28201260	6	1.56E-11
HDL-C-DN	ZKSCAN4	28212401-28227011	6	2.22E-08
HDL-C-DN	PGBD1	28249314-28270326	6	1.56E-08
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HDL-C-DN	ZKSCAN3	28317691-28336947	6	8.77E-12
HDL-C-DN	ZSCAN12	28346732-28367511	6	7.75E-12
HDL-C-DN	GPX6	28471073-28495992	6	7.92E-12
HDL-C-DN	SCAND3	28539407-28583989	6	1.53E-11
HDL-C-DN	TRIM27	28870779-28891766	6	5.24E-10
HDL-C-DN	OR5V1	29323007-29399744	6	2.60E-10
HDL-C-DN	OR12D3	29341200-29343068	6	1.94E-10
HDL-C-DN	OR11A1	29393281-29424848	6	5.15E-08
HDL-C-DN	UBD	29523292-29527702	6	4.68E-10
HDL-C-DN	GABBR1	29523406-29601753	6	3.15E-07

HDL-C-DN	ZNRD1	30026676-30032686	6	6.68E-10
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HDL-C-DN	TRIM31	30070674-30080883	6	6.63E-08
HDL-C-DN	TRIM10	30119722-30128711	6	5.00E-10
HDL-C-DN	TRIM15	30130993-30140473	6	2.54E-11
HDL-C-DN	TRIM26	30152232-30181204	6	1.55E-10
HDL-C-DN	TRIM39	30294256-30311506	6	5.68E-08
HDL-C-DN	TRIM39-RPP21	30297359-30314631	6	6.40E-12
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HDL-C-DN	TUBB	30687978-30693203	6	1.14E-07
HDL-C-DN	FLOT1	30695486-30710510	6	1.59E-12
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HDL-C-DN	GTF2H4	30875961-30881883	6	5.00E-10
HDL-C-DN	VAR2	30876019-30894236	6	5.00E-10
HDL-C-DN	SFTA2	30899130-30899952	6	5.00E-10
HDL-C-DN	DPCR1	30908749-30921998	6	5.00E-10
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HDL-C-DN	MUC22	30978251-31003179	6	1.13E-14
HDL-C-DN	C6orf15	31079000-31080336	6	1.81E-15
HDL-C-DN	PSORS1C1	31082527-31107869	6	4.50E-15
HDL-C-DN	CDSN	31082867-31088223	6	5.00E-10
HDL-C-DN	PSORS1C2	31105313-31107127	6	5.00E-10
HDL-C-DN	CCHCR1	31110216-31126015	6	1.96E-13
HDL-C-DN	TCF19	31126319-31134936	6	5.55E-15
HDL-C-DN	POU5F1	31132119-31148508	6	5.71E-12
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HDL-C-DN	DDX39B	31497996-31510225	6	6.72E-15
HDL-C-DN	ATP6V1G2-DDX39B	31497996-31514385	6	1.28E-15
HDL-C-DN	ATP6V1G2	31512239-31516204	6	3.53E-12
HDL-C-DN	NFKBIL1	31514647-31526606	6	5.00E-10
HDL-C-DN	LTA	31539831-31542101	6	1.37E-10
HDL-C-DN	LST1	31553901-31556686	6	8.79E-12
HDL-C-DN	NCR3	31556672-31560762	6	5.27E-14
HDL-C-DN	PRRC2A	31588497-31605548	6	1.17E-15
HDL-C-DN	BAG6	31606805-31620482	6	5.00E-10
HDL-C-DN	APOM	31620193-31625987	6	5.00E-10
HDL-C-DN	C6orf47	31626075-31628549	6	8.76E-09
HDL-C-DN	GPANK1	31629006-31634060	6	3.44E-15
HDL-C-DN	CSNK2B	31633013-31638120	6	5.00E-10
HDL-C-DN	CSNK2B-LY6G5B-1181	31633879-31641323	6	5.00E-10
HDL-C-DN	LY6G5B	31637944-31641553	6	2.01E-08
HDL-C-DN	ABHD16A	31654726-31671221	6	5.00E-10
HDL-C-DN	XXbac-BPG32J3.20	31654739-31681849	6	3.33E-15
HDL-C-DN	LY6G6F	31674640-31685581	6	1.12E-09
HDL-C-DN	MEGT1	31674681-31685695	6	1.12E-09
HDL-C-DN	LY6G6E	31679548-31681842	6	3.56E-08
HDL-C-DN	C6orf25	31686371-31694491	6	5.00E-10
HDL-C-DN	LY6G6C	31686425-31689622	6	1.96E-09
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HDL-C-DN	MSH5-SAPCD1	31707797-31732628	6	5.00E-10
HDL-C-DN	VWA7	31733367-31745108	6	2.93E-13
HDL-C-DN	VAR5	31745295-31763730	6	5.00E-10
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HDL-C-DN	C2	31865562-31913449	6	7.16E-12
HDL-C-DN	CFB	31895475-31919825	6	1.04E-10
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HDL-C-DN	SKIV2L	31926857-31937532	6	2.20E-11
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HDL-C-DN	TNXB	32008931-32083111	6	6.99E-15
HDL-C-DN	ATF6B	32065953-32096030	6	2.09E-12
HDL-C-DN	PPT2	32121218-32134011	6	5.00E-10
HDL-C-DN	PPT2-EGFL8	32121622-32139755	6	5.00E-10
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HDL-C-DN	RNF5	32146131-32151930	6	2.05E-08
HDL-C-DN	AGER	32148745-32152101	6	5.00E-10
HDL-C-DN	PBX2	32152512-32157963	6	5.00E-10
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HDL-C-DN	NOTCH4	32162620-32191844	6	1.83E-12
HDL-C-DN	C6orf10	32256303-32339684	6	5.00E-10
HDL-C-DN	BTNL2	32361740-32374905	6	6.00E-15
HDL-C-DN	HLA-DRA	32407619-32412823	6	6.44E-15
HDL-C-DN	HLA-DQA1	32595956-32614839	6	1.57E-13
HDL-C-DN	HLA-DQB1	32627244-32636160	6	5.00E-10
HDL-C-DN	HLA-DQA2	32709119-32714992	6	1.18E-12
HDL-C-DN	HLA-DQB2	32723875-32731311	6	1.69E-07
HDL-C-DN	HLA-DOB	32780540-32784825	6	5.00E-10
HDL-C-DN	TAP2	32781544-32806599	6	5.00E-10

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HDL-C-DN	PSMB8	32808494-32812480	6	8.14E-13
HDL-C-DN	PSMB9	32811913-32827362	6	1.77E-13
HDL-C-DN	TAP1	32812986-32821755	6	1.77E-13
HDL-C-DN	GGNBP1	33551515-33556803	6	1.03E-05
HDL-C-DN	ITPR3	33588142-33664351	6	4.39E-10
HDL-C-DN	MLN	33762450-33771788	6	2.48E-08
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HDL-C-DN	PLG	161123270-161174347	6	5.00E-10
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HDL-C-DN	LPL	19759228-19824769	8	5.00E-10
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HDL-C-DN	TTC39B	15163620-15307358	9	3.43E-11
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HDL-C-DN	PTPMT1	47586982-47595013	11	3.93E-08
HDL-C-DN	MTCH2	47638867-47664175	11	3.15E-08
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HDL-C-DN	FEN1	61560109-61564716	11	7.80E-21
HDL-C-DN	FADS2	61560452-61634826	11	1.12E-14
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HDL-C-DN	ZNF259	116648436-116658766	11	6.89E-13
HDL-C-DN	APOA5	116660083-116663136	11	4.56E-15
HDL-C-DN	APOA4	116691419-116694022	11	2.24E-08
HDL-C-DN	APOC3	116700422-116703788	11	3.39E-11
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HDL-C-DN	TAGLN	117070037-117075498	11	9.07E-11
HDL-C-DN	PCSK7	117075053-117103241	11	3.61E-13
HDL-C-DN	RNF214	117103341-117157161	11	2.10E-08
HDL-C-DN	BACE1	117156402-117186975	11	2.83E-11
HDL-C-DN	ST3GAL4	126225535-126310239	11	4.71E-10
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HDL-C-DN	ERBB3	56473641-56497289	12	5.38E-10
HDL-C-DN	RP11-123K3.4	57643392-57690267	12	1.03E-08
HDL-C-DN	R3HDM2	57643392-57824788	12	5.09E-09
HDL-C-DN	INHBC	57828543-57844611	12	1.27E-08
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HDL-C-DN	ABCB9	123405498-123466196	12	4.62E-07
HDL-C-DN	DNAH10	124247042-124420753	12	2.85E-11
HDL-C-DN	SCARB1	125261402-125367214	12	1.16E-14
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HDL-C-DN	ALDH1A2	58245622-58790065	15	5.00E-10
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HDL-C-DN	DPEP2	68021297-68034489	16	5.00E-10
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HDL-C-DN	ESRP2	68263014-68272005	16	5.79E-09
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HDL-C-DN	MYO5B	47349183-47721463	18	1.89E-08
HDL-C-DN	CERS4	8271620-8327305	19	5.60E-09
HDL-C-DN	KANK3	8387468-8408146	19	5.00E-10
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HDL-C-DN	MYO1F	8585674-8642461	19	1.61E-09
HDL-C-DN	DOCK6	11309971-11373157	19	9.94E-15
HDL-C-DN	C19orf80	11348178-11352619	19	5.00E-10

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HDL-C-DN	FPR1	52248425-52307363	19	4.48E-08
HDL-C-DN	FPR3	52298416-52329442	19	1.54E-09
HDL-C-DN	RPS9	54704610-54752862	19	2.75E-09
HDL-C-DN	LILRB5	54754263-54761164	19	9.27E-09
HDL-C-DN	LILRB2	54777675-54785039	19	5.86E-10
HDL-C-DN	LILRA5	54818353-54824409	19	1.43E-08
HDL-C-DN	NCOA6	33284722-33413452	20	3.67E-09
HDL-C-DN	TP53INP2	33292094-33301243	20	2.38E-07
HDL-C-DN	PLTP	44527399-44540794	20	5.00E-10
HDL-C-DN	PCIF1	44563267-44576662	20	9.62E-09
HDL-C-DN	ZNF335	44577292-44600833	20	2.47E-09
HDL-C-DN	COL18A1	46825052-46933634	21	4.93E-09
TG-DN	USP1	62901968-62917475	1	1.14E-13
TG-DN	DOCK7	62920399-63153969	1	4.27E-12
TG-DN	AL138847.1	63073437-63075249	1	4.10E-14
TG-DN	ATG4C	63249806-63331184	1	9.13E-09
TG-DN	PTPN22	114356433-114414381	1	8.53E-09
TG-DN	GALNT2	230193536-230417870	1	2.07E-14
TG-DN	APOB	21224301-21266945	2	2.71E-09
TG-DN	DPYSL5	27070615-27173219	2	1.50E-10
TG-DN	MAPRE3	27193480-27250064	2	7.08E-14
TG-DN	AGBL5	27265232-27293490	2	3.63E-12
TG-DN	ABHD1	27346682-27353680	2	6.29E-10
TG-DN	PREB	27353624-27357543	2	2.33E-09
TG-DN	ATRAID	27434895-27440046	2	2.71E-10
TG-DN	CAD	27440258-27466811	2	2.90E-08

TG-DN	SLC30A3	27476552-27498685	2	2.65E-10
TG-DN	DNAJC5G	27498289-27504367	2	5.00E-10
TG-DN	TRIM54	27505260-27530307	2	7.83E-10
TG-DN	MPV17	27532360-27548547	2	3.83E-11
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TG-DN	PPM1G	27604061-27632554	2	5.11E-10
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TG-DN	KRTCAP3	27665233-27669348	2	4.10E-14
TG-DN	IFT172	27667238-27712656	2	5.00E-10
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TG-DN	TTLL4	219575568-219620139	2	3.77E-08
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TG-DN	VAR2	30876019-30894236	6	5.00E-10
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TG-DN	LY6G6E	31679548-31681842	6	3.38E-20
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TG-DN	AGER	32148745-32152101	6	9.59E-12

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TG-DN	TAP2	32781544-32806599	6	5.00E-10
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TG-DN	RXRB	33161365-33168630	6	2.60E-10
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TG-DN	CTC-260F20.3	19627036-19646885	19	7.02E-11
TG-DN	YJEFN3	19627036-19648390	19	9.42E-08
TG-DN	CILP2	19649057-19657468	19	5.47E-08
TG-DN	PBX4	19672522-19729725	19	5.00E-10
TG-DN	GMIP	19740285-19754476	19	3.19E-27
TG-DN	ZNF101	19779605-19794318	19	5.00E-10
TG-DN	ZNF14	19821280-19843906	19	2.08E-10
TG-DN	CBLC	45281126-45303891	19	4.64E-08
TG-DN	PVRL2	45349432-45392485	19	1.05E-15
TG-DN	TOMM40	45393826-45406946	19	3.96E-11
TG-DN	APOE	45409011-45412650	19	6.38E-12

TG-DN	APOC1	45417504-45422606	19	5.00E-10
TG-DN	CLPTM1	45457842-45496599	19	1.14E-10
TG-DN	RELB	45504688-45541452	19	3.24E-10
TG-DN	PLTP	44527399-44540794	20	5.00E-10
TG-DN	PCIF1	44563267-44576662	20	9.31E-09
TG-DN	ZNF335	44577292-44600833	20	5.00E-10
WHR-DN	TBX15	119425669-119532179	1	9.00E-14
WHR-DN	WARS2	119573839-119683294	1	3.04E-09
WHR-DN	POMC	25383722-25391772	2	4.23E-08
WHR-DN	AC022431.2	55807394-55902059	5	4.67E-09
WHR-DN	COL4A3BP	74664311-74807963	5	2.44E-08
WHR-DN	POLK	74807581-74896969	5	0.00012587
WHR-DN	ANKDD1B	74907284-74967671	5	4.49E-09
WHR-DN	BTN3A1	26402465-26415444	6	5.62E-10
WHR-DN	BTN3A3	26440700-26453643	6	2.89E-09
WHR-DN	BTN2A1	26458150-26476849	6	1.56E-09
WHR-DN	ABT1	26597180-26600278	6	6.52E-09
WHR-DN	ZNF322	26636518-26659980	6	2.56E-09
WHR-DN	POM121L2	27253682-27279949	6	3.77E-10
WHR-DN	ZNF391	27342394-27371683	6	1.70E-07
WHR-DN	ZNF184	27418522-27440897	6	2.18E-06
WHR-DN	HIST1H2AJ	27782112-27782607	6	4.58E-08
WHR-DN	HIST1H2BN	27806323-27823487	6	3.71E-08
WHR-DN	HIST1H1B	27834570-27835359	6	2.02E-08
WHR-DN	HIST1H4L	27840926-27841289	6	5.53E-10
WHR-DN	OR2B2	27878963-27880174	6	3.68E-10
WHR-DN	ZKSCAN8	28109688-28127250	6	1.19E-10
WHR-DN	ZSCAN9	28192664-28201260	6	1.21E-10
WHR-DN	ZKSCAN4	28212401-28227011	6	6.74E-10
WHR-DN	PGBD1	28249314-28270326	6	1.45E-08
WHR-DN	ZSCAN31	28292470-28324048	6	1.06E-07

WHR-DN	ZKSCAN3	28317691-28336947	6	9.92E-12
WHR-DN	ZSCAN12	28346732-28367511	6	1.00E-11
WHR-DN	ZSCAN23	28399707-28411279	6	2.71E-08
WHR-DN	GPX6	28471073-28495992	6	4.71E-12
WHR-DN	SCAND3	28539407-28583989	6	2.39E-11
WHR-DN	TRIM27	28870779-28891766	6	1.92E-10
WHR-DN	OR5V1	29323007-29399744	6	1.26E-10
WHR-DN	OR12D3	29341200-29343068	6	7.87E-10
WHR-DN	OR11A1	29393281-29424848	6	2.76E-08
WHR-DN	UBD	29523292-29527702	6	9.96E-11
WHR-DN	GABBR1	29523406-29601753	6	9.61E-10
WHR-DN	ZNRD1	30026676-30032686	6	2.39E-10
WHR-DN	RNF39	30038043-30043664	6	1.88E-10
WHR-DN	TRIM31	30070674-30080883	6	3.47E-08
WHR-DN	TRIM10	30119722-30128711	6	2.40E-07
WHR-DN	TRIM15	30130993-30140473	6	3.96E-08
WHR-DN	TRIM26	30152232-30181204	6	1.77E-09
WHR-DN	TRIM39	30294256-30311506	6	5.00E-10
WHR-DN	TRIM39-RPP21	30297359-30314631	6	1.44E-08
WHR-DN	GNL1	30509154-30524951	6	1.50E-13
WHR-DN	ABCF1	30539153-30564956	6	4.10E-13
WHR-DN	ATAT1	30594619-30614600	6	5.00E-10
WHR-DN	C6orf136	30614816-30620987	6	1.94E-14
WHR-DN	PPP1R18	30644166-30655672	6	2.55E-13
WHR-DN	NRM	30655824-30659197	6	1.34E-13
WHR-DN	TUBB	30687978-30693203	6	1.96E-12
WHR-DN	FLOT1	30695486-30710510	6	3.92E-12
WHR-DN	DDR1	30844198-30867933	6	1.22E-12
WHR-DN	GTF2H4	30875961-30881883	6	5.00E-10
WHR-DN	VAR52	30876019-30894236	6	5.00E-10
WHR-DN	SFTA2	30899130-30899952	6	1.37E-08

WHR-DN	DPCR1	30908749-30921998	6	3.02E-12
WHR-DN	MUC21	30951495-30957680	6	2.02E-15
WHR-DN	MUC22	30978251-31003179	6	1.55E-15
WHR-DN	C6orf15	31079000-31080336	6	5.00E-10
WHR-DN	PSORS1C1	31082527-31107869	6	8.77E-15
WHR-DN	CDSN	31082867-31088223	6	9.09E-12
WHR-DN	PSORS1C2	31105313-31107127	6	5.00E-10
WHR-DN	CCHCR1	31110216-31126015	6	9.06E-13
WHR-DN	TCF19	31126319-31134936	6	7.77E-16
WHR-DN	POU5F1	31132119-31148508	6	1.11E-15
WHR-DN	HCG27	31165537-31171745	6	2.43E-14
WHR-DN	HLA-B	31321649-31324965	6	1.71E-08
WHR-DN	MICA	31371356-31383092	6	6.42E-14
WHR-DN	MICB	31462658-31478901	6	1.07E-14
WHR-DN	MCCD1	31496494-31498009	6	5.00E-10
WHR-DN	DDX39B	31497996-31510225	6	2.66E-15
WHR-DN	ATP6V1G2-DDX39B	31497996-31514385	6	5.00E-10
WHR-DN	ATP6V1G2	31512239-31516204	6	4.31E-13
WHR-DN	NFKBIL1	31514647-31526606	6	1.83E-15
WHR-DN	LTA	31539831-31542101	6	5.00E-10
WHR-DN	NCR3	31556672-31560762	6	2.39E-15
WHR-DN	AIF1	31582961-31584798	6	1.21E-10
WHR-DN	PRRC2A	31588497-31605548	6	5.00E-10
WHR-DN	BAG6	31606805-31620482	6	2.44E-15
WHR-DN	APOM	31620193-31625987	6	5.00E-10
WHR-DN	C6orf47	31626075-31628549	6	5.05E-19
WHR-DN	GPANK1	31629006-31634060	6	5.11E-11
WHR-DN	CSNK2B	31633013-31638120	6	5.00E-10
WHR-DN	CSNK2B-LY6G5B-1181	31633879-31641323	6	2.44E-14
WHR-DN	LY6G5B	31637944-31641553	6	5.00E-10
WHR-DN	LY6G5C	31644461-31651817	6	5.00E-10

WHR-DN	ABHD16A	31654726-31671221	6	2.71E-14
WHR-DN	XXbac-BPG32J3.20	31654739-31681849	6	7.27E-15
WHR-DN	LY6G6F	31674640-31685581	6	5.00E-10
WHR-DN	MEGT1	31674681-31685695	6	5.44E-15
WHR-DN	C6orf25	31686371-31694491	6	3.53E-10
WHR-DN	LY6G6C	31686425-31689622	6	2.89E-09
WHR-DN	DDAH2	31694815-31698394	6	5.00E-10
WHR-DN	CLIC1	31698358-31707540	6	3.71E-22
WHR-DN	MSH5	31707725-31732622	6	1.50E-14
WHR-DN	MSH5-SAPCD1	31707797-31732628	6	5.00E-10
WHR-DN	VWA7	31733367-31745108	6	5.00E-10
WHR-DN	VAR5	31745295-31763730	6	3.27E-10
WHR-DN	LSM2	31765173-31774761	6	5.00E-10
WHR-DN	HSPA1L	31777396-31783437	6	5.00E-10
WHR-DN	C6orf48	31802385-31807541	6	1.93E-22
WHR-DN	NEU1	31825436-31830683	6	4.95E-19
WHR-DN	SLC44A4	31830969-31846823	6	6.08E-14
WHR-DN	EHMT2	31847536-31865464	6	3.50E-15
WHR-DN	C2	31865562-31913449	6	4.21E-14
WHR-DN	CFB	31895475-31919825	6	6.00E-15
WHR-DN	CFB	31895475-31919861	6	6.00E-15
WHR-DN	NELFE	31919864-31926887	6	1.23E-15
WHR-DN	SKIV2L	31926857-31937532	6	4.14E-16
WHR-DN	STK19	31938868-31950598	6	5.00E-10
WHR-DN	CYP21A2	32006042-32009447	6	9.01E-13
WHR-DN	TNXB	32008931-32083111	6	5.00E-10
WHR-DN	ATF6B	32065953-32096030	6	1.83E-15
WHR-DN	FKBP1	32096484-32098068	6	4.08E-14
WHR-DN	PRRT1	32116136-32122150	6	5.00E-10
WHR-DN	PPT2	32121218-32134011	6	1.04E-13
WHR-DN	PPT2-EGFL8	32121622-32139755	6	9.77E-15

WHR-DN	AGPAT1	32135989-32145873	6	7.37E-20
WHR-DN	RNF5	32146131-32151930	6	4.15E-13
WHR-DN	AGER	32148745-32152101	6	2.88E-10
WHR-DN	PBX2	32152512-32157963	6	5.00E-10
WHR-DN	GPSM3	32158543-32163300	6	5.00E-10
WHR-DN	NOTCH4	32162620-32191844	6	5.00E-10
WHR-DN	C6orf10	32256303-32339684	6	5.73E-13
WHR-DN	BTNL2	32361740-32374905	6	5.00E-10
WHR-DN	HLA-DRA	32407619-32412823	6	1.89E-13
WHR-DN	HLA-DQA1	32595956-32614839	6	5.00E-10
WHR-DN	HLA-DQB1	32627244-32636160	6	7.22E-16
WHR-DN	HLA-DQA2	32709119-32714992	6	3.05E-11
WHR-DN	HLA-DQB2	32723875-32731311	6	5.00E-10
WHR-DN	HLA-DOB	32780540-32784825	6	3.44E-15
WHR-DN	TAP2	32781544-32806599	6	7.56E-13
WHR-DN	TAP2	32789610-32806557	6	1.08E-13
WHR-DN	PSMB8	32808494-32812480	6	8.84E-12
WHR-DN	PSMB9	32811913-32827362	6	1.75E-13
WHR-DN	TAP1	32812986-32821755	6	2.58E-12
WHR-DN	HLA-DMB	32902406-32908847	6	1.24E-15
WHR-DN	XXbac-BPG181M17.5	32905141-32920899	6	5.00E-10
WHR-DN	HLA-DMA	32916390-32936871	6	2.32E-13
WHR-DN	BRD2	32936437-32949282	6	5.00E-10
WHR-DN	HLA-DPA1	33032346-33048552	6	3.04E-05
WHR-DN	HLA-DPB1	33043703-33054978	6	1.58E-07
WHR-DN	COL11A2	33130458-33160276	6	6.85E-13
WHR-DN	B3GALT4	33244917-33252609	6	2.29E-06
WHR-DN	WDR46	33246885-33257304	6	5.51E-06
WHR-DN	PFDN6	33257079-33266178	6	2.03E-07
WHR-DN	TAPBP	33267471-33282164	6	2.21E-08
WHR-DN	ZBTB22	33282183-33285719	6	8.49E-09

WHR-DN	DAXX	33286335-33297046	6	2.60E-08
WHR-DN	SYNGAP1	33387847-33421466	6	2.64E-08
WHR-DN	GGNBP1	33551515-33556803	6	1.70E-06
WHR-DN	ITPR3	33588142-33664351	6	3.84E-07
WHR-DN	CENPW	126661320-126670021	6	3.22E-08
WHR-DN	RSPO3	127439749-127518910	6	2.57E-09
WHR-DN	PURG	30853321-30891231	8	1.20E-08
WHR-DN	MYEOV	69061605-69182494	11	6.73E-08
WHR-DN	HOXC13	54332535-54340328	12	3.33E-07
WHR-DN	HOXC12	54348618-54352740	12	4.68E-08
WHR-DN	RAB5B	56367697-56388490	12	3.84E-08
WHR-DN	DNAH10	124247042-124420753	12	7.98E-10
WHR-DN	FAM101A	124457788-124800570	12	3.91E-08
WHR-DN	DLEU1	50656307-51297372	13	5.03E-09
WHR-DN	FTO	53737875-54155853	16	6.22E-15
WHR-DN	ZNHIT3	34842473-34855154	17	2.51E-07
WHR-DN	MYO19	34851477-34899284	17	1.24E-08
WHR-DN	APOE	45409011-45412650	19	2.79E-10
WHR-DN	APOC1	45417504-45422606	19	1.58E-08
WHRadjBMI-DN	TBX15	119425669-119532179	1	7.22E-16
WHRadjBMI-DN	WARS2	119573839-119683294	1	3.18E-12
WHRadjBMI-DN	ZBTB7B	154975127-154990998	1	2.19E-11
WHRadjBMI-DN	DCST2	154990996-155006257	1	2.23E-12
WHRadjBMI-DN	ADAM15	155023042-155035252	1	1.99E-08
WHRadjBMI-DN	GORAB	170501270-170522587	1	1.35E-07
WHRadjBMI-DN	COBLL1	165510134-165700189	2	3.29E-09
WHRadjBMI-DN	TKT	53258723-53290068	3	4.53E-06
WHRadjBMI-DN	IGF2BP2	185361527-185542844	3	3.30E-06
WHRadjBMI-DN	AC022431.2	55807394-55902059	5	2.70E-09
WHRadjBMI-DN	TNFAIP8	118604387-118735383	5	1.45E-08
WHRadjBMI-DN	LRRC16A	25279306-25620758	6	4.42E-12

WHRadjBMI-DN	SCGN	25652464-25702011	6	5.00E-10
WHRadjBMI-DN	SLC17A4	25754927-25781419	6	2.33E-09
WHRadjBMI-DN	SLC17A1	25783125-25832287	6	7.51E-09
WHRadjBMI-DN	SLC17A3	25833294-25882514	6	6.49E-09
WHRadjBMI-DN	SLC17A2	25912982-25930946	6	3.84E-13
WHRadjBMI-DN	TRIM38	25963030-25987384	6	6.54E-08
WHRadjBMI-DN	HIST1H1A	26017260-26018040	6	8.14E-11
WHRadjBMI-DN	HIST1H3C	26045639-26046097	6	1.52E-11
WHRadjBMI-DN	HFE	26087509-26098571	6	4.50E-08
WHRadjBMI-DN	HIST1H2BC	26115101-26124154	6	8.30E-07
WHRadjBMI-DN	HIST1H2AC	26124373-26139344	6	5.00E-10
WHRadjBMI-DN	HIST1H2BD	26158349-26171577	6	2.93E-11
WHRadjBMI-DN	HIST1H2BF	26199748-26200942	6	3.58E-14
WHRadjBMI-DN	BTN3A2	26365387-26378546	6	1.20E-12
WHRadjBMI-DN	BTN2A2	26383324-26395102	6	4.50E-08
WHRadjBMI-DN	BTN3A1	26402465-26415444	6	1.68E-10
WHRadjBMI-DN	BTN3A3	26440700-26453643	6	7.33E-09
WHRadjBMI-DN	BTN2A1	26458150-26476849	6	5.00E-10
WHRadjBMI-DN	BTN1A1	26501449-26510650	6	5.00E-10
WHRadjBMI-DN	ABT1	26597180-26600278	6	5.00E-10
WHRadjBMI-DN	ZNF322	26636518-26659980	6	6.94E-17
WHRadjBMI-DN	PRSS16	27215480-27224403	6	2.50E-10
WHRadjBMI-DN	POM121L2	27253682-27279949	6	2.43E-08
WHRadjBMI-DN	ZNF391	27342394-27371683	6	5.00E-10
WHRadjBMI-DN	ZNF184	27418522-27440897	6	5.00E-10
WHRadjBMI-DN	HIST1H2BL	27775257-27775709	6	8.29E-08
WHRadjBMI-DN	HIST1H2AJ	27782112-27782607	6	9.49E-14
WHRadjBMI-DN	HIST1H2BN	27806323-27823487	6	5.10E-11
WHRadjBMI-DN	HIST1H2AL	27833034-27833606	6	1.28E-12
WHRadjBMI-DN	HIST1H1B	27834570-27835359	6	1.77E-08
WHRadjBMI-DN	HIST1H4L	27840926-27841289	6	5.68E-17

WHRadjBMI-DN	HIST1H3J	27858093-27860884	6	5.00E-10
WHRadjBMI-DN	OR2B2	27878963-27880174	6	5.37E-17
WHRadjBMI-DN	ZNF165	28048753-28057341	6	1.77E-08
WHRadjBMI-DN	ZSCAN16	28092338-28097860	6	1.56E-08
WHRadjBMI-DN	ZKSCAN8	28109688-28127250	6	5.00E-10
WHRadjBMI-DN	ZSCAN9	28192664-28201260	6	2.55E-17
WHRadjBMI-DN	ZKSCAN4	28212401-28227011	6	5.00E-10
WHRadjBMI-DN	PGBD1	28249314-28270326	6	2.58E-09
WHRadjBMI-DN	ZSCAN31	28292470-28324048	6	1.40E-14
WHRadjBMI-DN	ZKSCAN3	28317691-28336947	6	3.33E-14
WHRadjBMI-DN	ZSCAN12	28346732-28367511	6	3.22E-18
WHRadjBMI-DN	ZSCAN23	28399707-28411279	6	9.22E-10
WHRadjBMI-DN	GPX6	28471073-28495992	6	1.08E-18
WHRadjBMI-DN	SCAND3	28539407-28583989	6	4.79E-08
WHRadjBMI-DN	TRIM27	28870779-28891766	6	7.45E-17
WHRadjBMI-DN	OR5V1	29323007-29399744	6	6.77E-15
WHRadjBMI-DN	OR12D3	29341200-29343068	6	1.15E-16
WHRadjBMI-DN	OR11A1	29393281-29424848	6	9.22E-11
WHRadjBMI-DN	UBD	29523292-29527702	6	3.59E-17
WHRadjBMI-DN	GABBR1	29523406-29601753	6	5.00E-10
WHRadjBMI-DN	MOG	29624758-29640149	6	9.55E-09
WHRadjBMI-DN	ZFP57	29640169-29648887	6	2.07E-07
WHRadjBMI-DN	HLA-F	29690552-29706305	6	1.91E-10
WHRadjBMI-DN	HLA-A	29909037-29913661	6	3.45E-08
WHRadjBMI-DN	ZNRD1	30026676-30032686	6	1.10E-15
WHRadjBMI-DN	RNF39	30038043-30043664	6	5.00E-10
WHRadjBMI-DN	TRIM31	30070674-30080883	6	1.25E-08
WHRadjBMI-DN	TRIM10	30119722-30128711	6	5.00E-10
WHRadjBMI-DN	TRIM15	30130993-30140473	6	5.00E-10
WHRadjBMI-DN	TRIM26	30152232-30181204	6	5.00E-10
WHRadjBMI-DN	TRIM39	30294256-30311506	6	5.00E-10

WHRadjBMI-DN	TRIM39-RPP21	30297359-30314631	6	5.00E-10
WHRadjBMI-DN	GNL1	30509154-30524951	6	2.82E-20
WHRadjBMI-DN	ABCF1	30539153-30564956	6	2.19E-19
WHRadjBMI-DN	ATAT1	30594619-30614600	6	5.00E-10
WHRadjBMI-DN	C6orf136	30614816-30620987	6	6.48E-21
WHRadjBMI-DN	PPP1R18	30644166-30655672	6	4.76E-20
WHRadjBMI-DN	NRM	30655824-30659197	6	5.00E-10
WHRadjBMI-DN	TUBB	30687978-30693203	6	1.04E-10
WHRadjBMI-DN	FLOT1	30695486-30710510	6	2.56E-13
WHRadjBMI-DN	DDR1	30844198-30867933	6	8.07E-14
WHRadjBMI-DN	GTF2H4	30875961-30881883	6	5.00E-10
WHRadjBMI-DN	VAR2	30876019-30894236	6	5.00E-10
WHRadjBMI-DN	SFTA2	30899130-30899952	6	5.00E-10
WHRadjBMI-DN	DPCR1	30908749-30921998	6	1.50E-14
WHRadjBMI-DN	MUC21	30951495-30957680	6	5.24E-23
WHRadjBMI-DN	MUC22	30978251-31003179	6	3.39E-15
WHRadjBMI-DN	C6orf15	31079000-31080336	6	5.00E-10
WHRadjBMI-DN	PSORS1C1	31082527-31107869	6	5.00E-10
WHRadjBMI-DN	CDSN	31082867-31088223	6	5.89E-13
WHRadjBMI-DN	PSORS1C2	31105313-31107127	6	6.42E-13
WHRadjBMI-DN	CCHCR1	31110216-31126015	6	2.83E-15
WHRadjBMI-DN	TCF19	31126319-31134936	6	2.40E-11
WHRadjBMI-DN	POU5F1	31132119-31148508	6	5.00E-10
WHRadjBMI-DN	HCG27	31165537-31171745	6	5.38E-15
WHRadjBMI-DN	HLA-B	31321649-31324965	6	7.31E-11
WHRadjBMI-DN	MICA	31371356-31383092	6	7.98E-12
WHRadjBMI-DN	MICB	31462658-31478901	6	1.09E-14
WHRadjBMI-DN	MCCD1	31496494-31498009	6	1.43E-14
WHRadjBMI-DN	DDX39B	31497996-31510225	6	5.00E-10
WHRadjBMI-DN	ATP6V1G2-DDX39B	31497996-31514385	6	5.00E-10
WHRadjBMI-DN	ATP6V1G2	31512239-31516204	6	1.16E-12

WHRadjBMI-DN	NFKBIL1	31514647-31526606	6	1.95E-13
WHRadjBMI-DN	LTA	31539831-31542101	6	4.89E-08
WHRadjBMI-DN	LST1	31553901-31556686	6	4.34E-11
WHRadjBMI-DN	NCR3	31556672-31560762	6	1.89E-15
WHRadjBMI-DN	AIF1	31582961-31584798	6	1.75E-10
WHRadjBMI-DN	PRRC2A	31588497-31605548	6	5.00E-10
WHRadjBMI-DN	BAG6	31606805-31620482	6	6.27E-15
WHRadjBMI-DN	APOM	31620193-31625987	6	5.00E-10
WHRadjBMI-DN	C6orf47	31626075-31628549	6	7.81E-11
WHRadjBMI-DN	GPANK1	31629006-31634060	6	1.72E-10
WHRadjBMI-DN	CSNK2B	31633013-31638120	6	5.00E-10
WHRadjBMI-DN	CSNK2B-LY6G5B-1181	31633879-31641323	6	5.00E-10
WHRadjBMI-DN	LY6G5B	31637944-31641553	6	5.00E-10
WHRadjBMI-DN	LY6G5C	31644461-31651817	6	5.00E-10
WHRadjBMI-DN	ABHD16A	31654726-31671221	6	1.19E-14
WHRadjBMI-DN	XXbac-BPG32J3.20	31654739-31681849	6	5.77E-15
WHRadjBMI-DN	LY6G6F	31674640-31685581	6	5.00E-10
WHRadjBMI-DN	MEGT1	31674681-31685695	6	3.22E-15
WHRadjBMI-DN	C6orf25	31686371-31694491	6	2.00E-22
WHRadjBMI-DN	LY6G6C	31686425-31689622	6	2.00E-22
WHRadjBMI-DN	DDAH2	31694815-31698394	6	5.00E-10
WHRadjBMI-DN	CLIC1	31698358-31707540	6	5.00E-10
WHRadjBMI-DN	MSH5	31707725-31732622	6	5.00E-10
WHRadjBMI-DN	MSH5-SAPCD1	31707797-31732628	6	1.49E-12
WHRadjBMI-DN	VWA7	31733367-31745108	6	5.00E-10
WHRadjBMI-DN	VAR5	31745295-31763730	6	5.00E-10
WHRadjBMI-DN	LSM2	31765173-31774761	6	5.00E-10
WHRadjBMI-DN	HSPA1L	31777396-31783437	6	5.00E-10
WHRadjBMI-DN	C6orf48	31802385-31807541	6	2.24E-34
WHRadjBMI-DN	NEU1	31825436-31830683	6	9.60E-23
WHRadjBMI-DN	SLC44A4	31830969-31846823	6	5.00E-10

WHRadjBMI-DN	EHMT2	31847536-31865464	6	5.55E-15
WHRadjBMI-DN	C2	31865562-31913449	6	2.33E-13
WHRadjBMI-DN	CFB	31895475-31919825	6	5.00E-10
WHRadjBMI-DN	CFB	31895475-31919861	6	5.00E-10
WHRadjBMI-DN	NELFE	31919864-31926887	6	5.00E-10
WHRadjBMI-DN	SKIV2L	31926857-31937532	6	5.60E-18
WHRadjBMI-DN	STK19	31938868-31950598	6	5.00E-10
WHRadjBMI-DN	CYP21A2	32006042-32009447	6	5.00E-10
WHRadjBMI-DN	TNXB	32008931-32083111	6	5.00E-10
WHRadjBMI-DN	ATF6B	32065953-32096030	6	5.00E-10
WHRadjBMI-DN	FKBPL	32096484-32098068	6	7.11E-15
WHRadjBMI-DN	PRRT1	32116136-32122150	6	1.25E-10
WHRadjBMI-DN	PPT2	32121218-32134011	6	5.72E-15
WHRadjBMI-DN	PPT2-EGFL8	32121622-32139755	6	1.05E-15
WHRadjBMI-DN	EGFL8	32132360-32136058	6	1.43E-07
WHRadjBMI-DN	AGPAT1	32135989-32145873	6	1.43E-11
WHRadjBMI-DN	RNF5	32146131-32151930	6	6.49E-15
WHRadjBMI-DN	AGER	32148745-32152101	6	5.00E-10
WHRadjBMI-DN	PBX2	32152512-32157963	6	5.00E-10
WHRadjBMI-DN	GPSM3	32158543-32163300	6	1.52E-10
WHRadjBMI-DN	NOTCH4	32162620-32191844	6	5.00E-10
WHRadjBMI-DN	C6orf10	32256303-32339684	6	3.09E-16
WHRadjBMI-DN	BTNL2	32361740-32374905	6	5.00E-10
WHRadjBMI-DN	HLA-DRA	32407619-32412823	6	5.03E-14
WHRadjBMI-DN	HLA-DQA1	32595956-32614839	6	5.00E-10
WHRadjBMI-DN	HLA-DQB1	32627244-32636160	6	5.00E-10
WHRadjBMI-DN	HLA-DQA2	32709119-32714992	6	9.41E-11
WHRadjBMI-DN	HLA-DQB2	32723875-32731311	6	1.55E-15
WHRadjBMI-DN	HLA-DOB	32780540-32784825	6	5.44E-15
WHRadjBMI-DN	TAP2	32781544-32806599	6	6.68E-13
WHRadjBMI-DN	TAP2	32789610-32806557	6	5.50E-13

WHRadjBMI-DN	PSMB8	32808494-32812480	6	5.00E-10
WHRadjBMI-DN	PSMB9	32811913-32827362	6	5.00E-10
WHRadjBMI-DN	TAP1	32812986-32821755	6	5.00E-10
WHRadjBMI-DN	HLA-DMB	32902406-32908847	6	5.00E-10
WHRadjBMI-DN	XXbac-BPG181M17.5	32905141-32920899	6	5.35E-11
WHRadjBMI-DN	HLA-DMA	32916390-32936871	6	7.51E-14
WHRadjBMI-DN	BRD2	32936437-32949282	6	5.00E-10
WHRadjBMI-DN	HLA-DOA	32971955-32977389	6	2.23E-07
WHRadjBMI-DN	HLA-DPA1	33032346-33048552	6	2.25E-11
WHRadjBMI-DN	HLA-DPB1	33043703-33054978	6	8.57E-09
WHRadjBMI-DN	COL11A2	33130458-33160276	6	6.49E-15
WHRadjBMI-DN	B3GALT4	33244917-33252609	6	6.43E-06
WHRadjBMI-DN	WDR46	33246885-33257304	6	4.10E-05
WHRadjBMI-DN	PFDN6	33257079-33266178	6	1.05E-07
WHRadjBMI-DN	TAPBP	33267471-33282164	6	1.56E-05
WHRadjBMI-DN	ZBTB22	33282183-33285719	6	1.25E-08
WHRadjBMI-DN	DAXX	33286335-33297046	6	2.65E-08
WHRadjBMI-DN	GGNBP1	33551515-33556803	6	1.99E-08
WHRadjBMI-DN	ANKS1A	34857042-35059179	6	4.15E-08
WHRadjBMI-DN	TRMT11	126307576-126360422	6	4.51E-08
WHRadjBMI-DN	RSPO3	127439749-127518910	6	6.07E-08
WHRadjBMI-DN	SOGA3	127759551-127840146	6	9.37E-09
WHRadjBMI-DN	SOGA3	127759551-127840500	6	9.37E-09
WHRadjBMI-DN	KIAA0408	127761488-127780536	6	9.37E-09
WHRadjBMI-DN	BAZ1B	72854728-72936608	7	2.13E-08
WHRadjBMI-DN	TBL2	72983262-72993121	7	2.36E-08
WHRadjBMI-DN	MLXIPL	73007524-73038873	7	3.79E-06
WHRadjBMI-DN	GATA4	11534468-11617511	8	5.00E-10
WHRadjBMI-DN	RP11-1102P16.1	72315675-72504260	8	3.61E-08
WHRadjBMI-DN	TCF7L2	114710009-114927437	10	5.23E-13
WHRadjBMI-DN	MYEOV	69061605-69182494	11	1.08E-07

WHRadjBMI-DN	SSPN	26274924-26452223	12	7.06E-09
WHRadjBMI-DN	HOXC13	54332535-54340328	12	2.52E-07
WHRadjBMI-DN	HOXC12	54348618-54352740	12	5.00E-10
WHRadjBMI-DN	RP11-834C11.12	54379629-54428672	12	2.48E-05
WHRadjBMI-DN	HOXC6	54384408-54424607	12	2.48E-05
WHRadjBMI-DN	HCAR1	123104824-123215390	12	2.23E-10
WHRadjBMI-DN	HIP1R	123319000-123347507	12	3.91E-08
WHRadjBMI-DN	DNAH10	124247042-124420753	12	5.72E-12
WHRadjBMI-DN	FAM101A	124457788-124800570	12	2.14E-10
WHRadjBMI-DN	DLEU1	50656307-51297372	13	5.23E-14
WHRadjBMI-DN	APOE	45409011-45412650	19	1.19E-08
WHRadjBMI-DN	COL6A2	47518011-47552763	21	2.71E-08

P values of genes from MAGMA analysis; Gene position information was obtained from "START-STOP"

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Table S7. Exploring the connection between eQTL datasets in various tissues (blood, kidney, pancreas) and 7 GWAS studies by SMR analysis

Gene	<i>P</i> value (HEIDI test)	Number of SNPs used in HEIDI test	<i>P</i> value (SMR)	topSNP
BMI-eQTL (blood)				
MEAF6	0.09777423	20	3.45E-06	rs140274410
PABPC4	0.164577	20	1.36E-06	rs61779310
MAST2	0.258072	14	3.30E-06	rs11211181
EVI5	0.1351138	20	1.24E-06	rs6604010
PRMT6	0.1972533	20	1.12E-09	rs2232015
SLC41A1	0.0524646	20	2.41E-06	rs823075
CAMKMT	0.2317667	20	2.35E-06	rs4953102
RP11-459I19.1	0.07198236	16	5.94E-06	rs6757772
RP11-550I24.2	0.0929131	20	2.50E-06	rs1969066
UBXN7	0.05088074	20	6.86E-06	rs4577498
ANAPC4	0.1295977	20	3.38E-08	rs28669083
C4orf3	0.6441243	9	1.22E-07	rs4604043
RP11-33B1.1	0.1387086	8	2.66E-07	rs7659336
USP38	0.1493771	20	5.81E-06	rs13128884
AP3B1	0.200243	20	5.94E-06	rs252761
ZFP57	0.09487512	20	7.14E-07	rs2747431
CCHCR1	0.1739364	20	1.57E-07	rs1576
LRFN2	0.1209444	20	1.96E-06	rs1575758
L3MBTL3	0.2048112	20	6.82E-09	rs7740107
ARG1	0.2022753	20	8.75E-12	rs2781668
MED23	0.1745793	20	7.03E-08	rs3843995
DPY19L1	0.3694093	20	6.65E-06	rs329266
GTF2IRD2	0.09267659	20	6.41E-09	rs810366
PMS2P3	0.07407974	20	9.93E-14	rs809439
TMEM60	0.1580165	20	4.79E-06	rs11979172
ZKSCAN5	0.1234336	20	1.55E-08	rs11761528
ALG1L13P	0.1382077	20	1.84E-06	rs10087493
BLK	0.5814611	20	5.92E-09	rs2618444

FUT10	0.09317162	20	4.50E-06	rs2732318
TLR4	0.06032958	20	2.61E-07	rs2770150
MED27	0.6853053	20	3.11E-06	rs7040224
NT5C2	0.1144539	20	2.03E-06	rs12414028
CASP7	0.1655747	20	2.15E-06	rs7918733
RP11-539I5.1	0.2356824	20	2.84E-06	rs1023550
AP006621.5	0.05931889	20	8.85E-07	rs4963156
PIDD	0.10921	20	5.88E-07	rs7121646
ARNTL	0.1018689	20	4.44E-11	rs34862781
GTF2H1	0.6226054	20	3.35E-06	rs11024614
RCN1	0.8541112	20	2.08E-06	rs689176
ACP2	0.05111556	20	8.70E-08	rs326222
LTBP3	0.1277316	20	3.36E-06	rs4102217
UBASH3B	0.5299408	20	1.25E-06	rs7944748
ARPC3	0.1043636	20	7.09E-06	rs7976889
RSRC2	0.1842862	12	9.80E-07	rs10846830
CCDC92	0.4002104	20	5.40E-07	rs3768
FARP1	0.9127726	20	3.04E-10	rs17574378
RP11-1017G21.5	0.4207241	20	5.54E-07	rs2448241
RP11-1017G21.6	0.2988337	20	5.00E-06	rs2448241
XRCC3	0.1808132	20	1.30E-08	rs35011804
EIF3C	0.2767456	20	7.83E-08	rs62036614
INO80E	0.1053191	20	4.39E-12	rs8054556
HSD3B7	0.196921	20	2.60E-11	rs4889606
ZNF668	0.2075964	20	1.68E-12	rs4889530
VKORC1	0.07503187	20	4.02E-08	rs4527034
BCKDK	0.1129461	20	1.53E-10	rs749671
CIRH1A	0.2194658	20	1.27E-06	rs113827003
CAMTA2	0.05788263	20	3.04E-08	rs238225
RABEP1	0.06058833	20	1.20E-07	rs1065483
ADORA2B	0.1706596	20	2.27E-06	rs1045599

RP11-798G7.6	0.2235279	20	1.17E-06	rs11656151
CCDC57	0.5172476	20	1.15E-07	rs7225119
CSNK1G2	0.2676887	20	2.04E-07	rs2074881
AC005306.3	0.2542497	20	6.41E-07	rs2074881
ZBTB7A	0.09659499	20	5.44E-07	rs7254272
PABPC1L	0.09043137	20	1.87E-06	rs6031858
BMI-eQTL (kidney)				
SLC35E2B	0.08545695	15	6.59E-09	rs72634826
RP1-283E3.4	0.5204697	7	5.58E-08	rs72634820
RBM6	0.1762638	20	1.28E-07	rs7613875
CCHCR1	0.06440042	20	3.05E-05	rs1265109
C4A	0.2615303	20	8.28E-05	rs9275576
L3MBTL3	0.7935291	20	8.83E-06	rs7740107
FAM86B3P	0.4504333	20	3.62E-07	rs2980439
PRPF4	0.2794771	17	6.13E-05	rs3088235
AP006621.5	0.2021246	20	2.67E-05	rs4963156
AP006621.6	0.1861185	20	4.00E-05	rs4963153
IGHMBP2	0.1139078	20	4.37E-05	rs613128
CLEC18A	0.0526169	20	1.14E-05	rs4985489
RP11-296I10.6	0.7650599	20	5.74E-07	rs9924898
ADORA2B	0.1760205	20	2.31E-06	rs1045599
CCDC57	0.5909706	17	6.67E-05	rs8080305
BMI-eQTL(pancreas)				
CALML6	0.1980385	20	8.28E-06	rs2377037
RP3-395M20.8	0.1047859	20	8.51E-06	rs6672381
FUBP1	0.06100894	15	6.83E-08	rs34517439
EDEM3	0.2470347	20	3.74E-06	rs12124714
PM20D1	0.1075432	20	1.46E-07	rs823080
PPP1CB	0.2836836	20	4.02E-06	rs13025377
TRMT61B	0.1382778	20	6.93E-06	rs4611608
ACTR1B	0.4117808	20	9.81E-06	rs11692435

RNF123	0.1011745	19	3.62E-07	rs9873183
HEG1	0.1591974	20	1.03E-05	rs4287948
ARHGEF26	0.1081705	20	4.14E-09	rs1727894
KRT18P34	0.06435241	20	5.07E-07	rs56263456
ANAPC4	0.1221031	20	5.76E-12	rs9654100
RP11-33B1.1	0.1446337	9	3.87E-08	rs6849171
1-Mar	0.2204454	20	3.02E-06	rs958855
RP11-218F10.3	0.1454763	20	9.17E-06	rs9308062
ERAP1	0.3104089	20	1.02E-07	rs26491
CCHCR1	0.1467213	20	5.80E-06	rs1576
SNRPC	0.3788592	18	2.18E-07	rs9469835
UHRF1BP1	0.07835316	20	1.65E-15	rs11755393
L3MBTL3	0.2848573	20	2.60E-08	rs7740107
AC147651.3	0.07033117	20	4.55E-06	rs9801322
JAZF1	0.186476	20	1.18E-06	rs849134
NSUN5P1	0.09519802	14	4.39E-07	rs236650
PMS2P3	0.1598126	15	7.61E-07	rs62477737
UPK3BP1	0.1299772	8	3.53E-07	rs62473710
GS1-259H13.2	0.1277522	20	1.05E-06	rs10273424
ERI1	0.05274981	20	1.50E-06	rs6981573
PPP1R3B	0.160666	20	2.61E-06	rs408773
AF131215.9	0.07036779	20	8.97E-10	rs34772085
TDH	0.1398031	20	3.96E-12	rs56177149
AF131216.5	0.1574222	20	2.97E-12	rs56177149
C8orf12	0.1349342	20	1.66E-11	rs56177149
FUT10	0.6554786	20	7.09E-06	rs7825716
CASP7	0.1406094	20	2.34E-06	rs7918733
AP006621.5	0.05009371	20	1.28E-06	rs4963156
PNPLA2	0.807378	20	7.16E-06	rs4963120
AP006621.8	0.4338581	20	5.38E-06	rs61876744
EFCAB4A	0.2468798	20	1.78E-09	rs1138714

RP11-613D13.5	0.113442	20	7.07E-09	rs57635800
IGHMBP2	0.1542652	20	8.68E-08	rs627731
HMBS	0.1994788	20	3.02E-11	rs1799993
RP11-890B15.3	0.07888285	20	6.47E-06	rs10750454
LYZ	0.3846634	20	1.73E-06	rs317689
RP11-1017G21.5	0.5578721	20	4.23E-06	rs2448241
NDUFAF1	0.3195826	20	3.68E-07	rs3204853
ADAM10	0.09414451	20	6.82E-06	rs16940589
CDC37P1	0.05188963	20	1.68E-18	rs62037365
RP11-1348G14.4	0.2650755	20	2.98E-07	rs6565293
MAPK3	0.1009272	20	2.54E-07	rs55732507
CIRH1A	0.458076	20	5.82E-06	rs111290442
RP11-296I10.6	0.0927294	20	4.77E-13	rs4985407
ADORA2B	0.07238043	20	1.69E-07	rs2779210
ZSWIM7	0.3937867	18	9.04E-06	rs4792712
RP11-798G7.6	0.5561408	18	2.81E-06	rs11653367
DDX42	0.4081705	20	1.15E-09	rs8069687
STRA13	0.1652539	20	6.31E-06	rs3934983
CCDC57	0.5980369	20	2.83E-07	rs7219036
NPC1	0.232368	20	1.29E-11	rs12964689
BTBD2	0.1761566	20	6.80E-06	rs11084923
PABPC1L	0.0955013	20	5.94E-06	rs2072726
HDL-C-eQTL (blood)				
TAS1R3	0.05868742	20	5.28E-06	rs35744813
CDC42	0.5654853	20	1.25E-06	rs2501299
RP3-465N24.5	0.2949685	20	2.10E-07	rs72660908
RHD	0.4164022	20	6.69E-08	rs55794721
SDHDP6	0.1947955	20	1.44E-07	rs55794721
TMEM50A	0.1898884	20	2.67E-07	rs55794721
PABPC4	0.9103786	20	1.75E-10	rs61779310
DOCK7	0.07377588	20	3.75E-10	rs1168086

PRMT6	0.08172948	20	6.59E-07	rs2232015
ADAR	0.1240423	20	1.20E-06	rs6702449
TMEM206	0.192459	20	6.79E-06	rs1774249
CNIH4	0.7158347	20	3.21E-07	rs12062871
SYN2	0.0671445	8	1.40E-06	rs59447614
LRRFIP2	0.2050221	20	4.92E-08	rs9846039
RP11-211G3.3	0.3632342	20	2.06E-07	rs28433076
SCD5	0.06762304	20	3.77E-08	rs12506023
FCHO2	0.07509999	20	5.81E-06	rs7713398
JMY	0.2335384	20	3.82E-07	rs10052358
TNFAIP8	0.3783155	20	1.92E-07	rs7703744
CTC-228N24.3	0.2290308	17	3.01E-07	rs1993878
HSPA4	0.4858451	13	1.83E-11	rs72801474
FAM114A2	0.4340139	20	3.03E-07	rs816022
BNIP1	0.1120605	20	4.41E-07	rs8543
NSG2	0.1938453	15	2.10E-06	rs56197583
C6orf62	0.3871544	20	5.85E-07	rs56056726
U91328.19	0.242892	20	6.53E-06	rs13202592
HLA-F	0.1511137	20	2.09E-10	rs2735059
HCG4P11	0.06859214	20	3.62E-06	rs2517910
HLA-DRB6	0.1061402	20	1.16E-08	rs28366333
HLA-DQA1	0.3026723	20	2.04E-07	rs17843580
HLA-DQB1	0.1183468	20	4.68E-10	rs3134993
HLA-DQB1-AS1	0.2043645	20	1.03E-11	rs9274639
HLA-DQA2	0.08431851	20	1.17E-10	rs9272362
HLA-DQB2	0.5872847	20	1.89E-09	rs9274660
RP3-475N16.1	0.1645101	15	1.21E-07	rs56106855
SNHG5	0.2017911	20	5.85E-10	rs1059307
CCDC162P	0.08844784	20	1.34E-17	rs4946962
ARG1	0.1058931	20	4.07E-12	rs2781668
HERPUD2	0.1624083	20	1.64E-06	rs10259992

TRGJP2	0.06144256	20	1.87E-09	rs61009734
ZMIZ2	0.1148724	20	2.55E-06	rs73109470
KB-1507C5.2	0.1389893	20	6.70E-07	rs2679740
VLDLR	0.3020025	20	4.36E-07	rs34881325
RP11-513M16.7	0.5493113	20	4.57E-06	rs10117525
UBAP1	0.6981131	20	9.41E-07	rs62556595
AUH	0.1051611	16	2.34E-06	rs16907277
C9orf114	0.1013983	18	8.06E-07	rs6478854
GDI2	0.4823086	20	4.93E-07	rs3736461
BMS1P4	0.2295582	20	4.96E-06	rs13013
EIF2S2P3	0.4482176	20	1.98E-06	rs2185756
ARNTL	0.2546609	20	2.52E-08	rs34862781
ACP2	0.07634969	20	1.32E-27	rs326222
EML3	0.3409328	20	3.81E-08	rs11231161
KCNK7	0.09695726	14	6.80E-07	rs12419237
SIPA1	0.1293472	18	2.58E-07	rs66864335
PACS1	0.05994282	20	7.34E-07	rs535395
RP11-535A19.2	0.0561138	16	4.60E-09	rs11501918
ZC3H12C	0.09679757	20	2.83E-10	rs6589111
RP11-110I1.14	0.1793274	13	4.46E-09	rs1177563
RP11-680A11.5	0.1042811	20	7.05E-06	rs61754164
SP1	0.4935249	20	3.19E-07	rs10876450
MAP3K12	0.5364819	20	6.11E-07	rs1716966
C12orf65	0.309283	20	3.53E-14	rs9669295
RP11-282O18.3	0.7695381	20	1.94E-10	rs11057242
CDK2AP1	0.1547199	20	5.56E-31	rs9669295
STK24	0.1223187	20	3.69E-08	rs4772101
CDC16	0.1698834	20	4.52E-06	rs10870597
GTF2A1	0.05997017	17	2.46E-07	rs75860184
SLC25A29	0.05075034	20	6.99E-07	rs8009897
LINC00638	0.1546413	20	9.41E-08	rs12894160

NDN	0.2550818	10	1.42E-07	rs3743340
RPAP1	0.1492842	20	5.50E-07	rs2297379
RP11-166B2.1	0.2368111	20	2.01E-08	rs393329
TUFM	0.1162979	20	4.15E-11	rs7187776
MVP	0.2202703	13	3.38E-06	rs11859871
INO80E	0.1383078	20	3.27E-09	rs8054556
HSD3B7	0.2233242	20	3.83E-07	rs4889606
BCKDK	0.06886083	20	7.41E-07	rs749671
DOK4	0.2362075	20	4.38E-06	rs625784
CTRL	0.4972552	20	3.05E-09	rs112434994
ZFP1	0.06555191	20	4.57E-08	rs8058619
PITPNA	0.6329034	20	2.48E-08	rs17821294
POLDIP2	0.5176474	18	6.09E-06	rs4795434
CTC-510F12.2	0.3702139	8	1.55E-11	rs147762096
GCDH	0.1683564	20	4.97E-06	rs8012
KIAA1683	0.2882225	20	1.26E-06	rs10406080
SCN1B	0.1095241	20	7.55E-07	rs4997929
HPN	0.1200952	17	9.91E-07	rs4997929
AC008984.7	0.3365917	6	2.06E-09	rs35915840
HM13	0.2455336	20	1.15E-11	rs6059690
RPL36P4	0.6736451	20	1.32E-07	rs7261820
MYBL2	0.7458957	20	4.02E-07	rs285205
SYS1	0.1927582	15	7.05E-09	rs2743439
MAP3K7CL	0.1967554	20	6.57E-06	rs8129515
BACH1-AS1	0.7262103	20	6.09E-06	rs2832300
PTTG1IP	0.1422309	20	4.39E-16	rs235374
RP3-508I15.9	0.06062177	20	4.95E-06	rs9610971
SYNGR1	0.08478892	20	1.05E-06	rs1807560
HDL-C-eQTL (kidney)				
ZNF436	0.6752527	12	4.85E-05	rs1535179
RP3-465N24.5	0.5414652	15	1.04E-05	rs55794721

RHD	0.4189616	17	5.18E-06	rs55794721
RPA2	0.4529921	12	6.76E-05	rs17185052
RP11-392O17.1	0.1696966	20	5.50E-07	rs11118311
TMEM163	0.2525617	20	3.03E-08	rs6758044
HLA-DQB1	0.09275188	20	8.24E-08	rs9274639
HLA-DQB1-AS1	0.0895447	20	6.45E-06	rs9274639
XXbac-BPG254F23.7	0.06850922	20	1.26E-06	rs2935909
HLA-DQA2	0.1409236	20	1.32E-05	rs9272362
PEX6	0.4005081	11	1.83E-07	rs6907751
SNHG5	0.3276634	20	4.99E-07	rs1059307
L3MBTL3	0.5397421	20	1.67E-05	rs7740107
CWF19L1	0.08236391	20	1.77E-05	rs12413812
IGHMBP2	0.4006616	20	5.52E-08	rs613128
ESPL1	0.1103246	10	4.66E-06	rs4759086
RPS26	0.3191516	20	2.38E-09	rs11171739
RP11-166B2.1	0.3532145	20	4.83E-06	rs393329
PHLPP2	0.9716368	11	2.98E-06	rs7359478
GSDMA	0.2819404	20	2.28E-07	rs3907022
PRR15L	0.07041404	11	1.63E-06	rs149584707
CEACAM19	0.2675484	14	3.76E-05	rs714948
RPL36P4	0.7167556	19	9.44E-06	rs12481365
HDL-C-eQTL(pancreas)				
RP11-54O7.17	0.09637982	20	2.73E-08	rs2799060
CALML6	0.6998509	20	3.27E-06	rs2377037
RP3-465N24.5	0.5375444	20	3.92E-07	rs55794721
RHD	0.8846635	20	2.19E-07	rs55794721
RP11-69E11.8	0.4824129	20	3.80E-12	rs3768321
TRIT1	0.1225569	20	5.53E-06	rs3131647
CELSR2	0.1984449	10	5.17E-12	rs7528419
CNIH4	0.6606682	20	3.58E-07	rs7536608
SH3YL1	0.251402	20	9.02E-17	rs56167434

CEP68	0.7503893	20	2.13E-12	rs74181299
EFHB	0.1010485	20	8.91E-06	rs11128927
IDUA	0.05778987	20	3.92E-09	rs11248061
RP11-696N14.1	0.8088297	20	9.70E-08	rs6858148
ARHGEF28	0.3609101	20	2.44E-09	rs2112161
CTC-228N24.3	0.1135936	20	9.36E-10	rs34576922
HSPA4	0.6511237	5	8.15E-08	rs72801474
PCDHA4	0.06960879	20	1.05E-06	rs3806844
LARS	0.2800806	15	5.58E-06	rs17428647
C6orf62	0.6496672	20	4.40E-07	rs3813687
PSORS1C1	0.156917	20	2.96E-06	rs9263641
HLA-DQB1-AS1	0.1720714	20	4.63E-09	rs9274639
HLA-DQB2	0.115415	20	7.09E-10	rs3828811
SNRPC	0.08020428	19	9.71E-08	rs9469835
RP3-475N16.1	0.5327956	14	4.83E-08	rs9471972
SNHG5	0.07324555	20	3.09E-09	rs1059307
MANEA	0.2195745	20	6.22E-06	rs9387890
RP11-624M8.1	0.4333812	20	8.73E-07	rs3799712
HEY2	0.6648943	20	2.35E-06	rs1977141
TMEM106B	0.7425841	17	3.71E-06	rs5011432
ZMIZ2	0.1921253	20	8.45E-06	rs79784917
MLXIPL	0.0817395	20	3.65E-16	rs34121855
ASB4	0.1186994	20	3.31E-07	rs11981299
C7orf55-LUC7L2	0.05760185	20	1.80E-07	rs2355785
ENDOG	0.1022248	16	2.17E-06	rs2977994
C9orf114	0.09065726	20	7.72E-07	rs2977993
CRAT	0.6915961	20	4.54E-06	rs3124496
GDI2	0.6674025	20	1.18E-06	rs3736461
SAR1A	0.116989	20	2.82E-06	rs10159731
MARK2P9	0.5891185	20	5.34E-08	rs17875327
PDE3B	0.3550628	20	2.46E-07	rs11023302

GTF2H1	0.2072984	20	3.51E-06	rs9783347
C1QTNF4	0.08992032	20	1.80E-08	rs12363232
DOC2GP	0.2031966	20	3.46E-08	rs12800028
MRPL21	0.05167335	20	2.87E-14	rs636049
RP11-110I1.14	0.05615839	9	1.81E-07	rs1184902
RP1-102E24.8	0.400142	12	2.17E-06	rs12296430
CAND1	0.8019781	20	8.42E-07	rs1152898
SYNJ2BP	0.963003	20	4.33E-07	rs17565772
LINC00638	0.3267701	20	1.26E-07	rs2498808
RP11-166B2.1	0.708494	20	2.41E-08	rs393329
CDC37P1	0.1367697	20	5.34E-09	rs62037365
FTLP14	0.2070976	16	1.86E-06	rs1801552
MSL1	0.08354794	20	9.16E-09	rs117827273
PSMC3IP	0.1850741	20	4.31E-06	rs629861
PSMC5	0.1829577	20	2.79E-06	rs2665850
USP36	0.07650487	20	2.37E-06	rs3826552
CEACAM19	0.1469228	20	9.18E-07	rs714948
ZNF432	0.0708903	20	4.85E-07	rs4566288
MAP1LC3A	0.2058773	20	2.41E-07	rs6059956
RPL36P4	0.2616175	20	2.75E-06	rs7263068
TOMM22	0.2419665	20	5.49E-06	rs4821815
RP3-508I15.22	0.08461206	20	3.40E-06	rs5757151
DKD-eQTL (blood)				
HLA-DRB6	1	20	2.88E-39	rs28366333
HLA-DRB1	0.9999937	20	4.44E-21	rs9271465
HLA-DQA1	0.9999995	20	8.02E-37	rs17843580
HLA-DQB1	1	20	4.02E-65	rs3134993
HLA-DQA2	0.9999998	20	7.94E-44	rs9271589
HLA-DQB2	1	20	1.35E-63	rs9274660
PRKD2	0.2322898	20	1.26E-06	rs3786705
DKD-eQTL(kidney)				

C4A	0.1976559	20	1.62E-09	rs9275576
HLA-DRB5	0.3338903	20	2.62E-09	rs3104383
HLA-DRB6	0.4030149	20	8.75E-08	rs9271415
HLA-DQB1	0.0515415	20	1.81E-11	rs9274639
XXbac-BPG254F23.7	0.1848791	20	4.14E-09	rs3957148
HLA-DQB2	1	20	1.13E-09	rs9274669
DKD-eQTL(pancreas)				
SKIV2L	0.1301485	20	2.97E-10	rs550671
HLA-DRB6	1	20	2.61E-27	rs9272323
HLA-DRB1	0.5183326	20	7.73E-18	rs9271718
HLA-DQA1	0.9054932	20	1.28E-23	rs12527758
HLA-DQA2	0.9907394	20	4.86E-28	rs9271589
HLA-DQB2	1	20	4.81E-36	rs3828811
DR-eQTL(blood)				
HLA-DRB6	1	20	2.19E-61	rs28366333
HLA-DRB1	0.9998776	20	7.93E-26	rs9271465
HLA-DQA1	0.9999913	20	2.80E-50	rs17843580
HLA-DQB1	1	20	1.07E-129	rs3134993
HLA-DQA2	0.9999904	20	1.35E-75	rs9271589
HLA-DQB2	1	20	1.52E-122	rs9274660
TP53INP1	0.6462711	20	6.20E-06	rs896853
RPS26	0.05766926	20	1.56E-08	rs1131017
DR-eQTL(kidney)				
PSORS1C3	0.05428976	20	2.91E-09	rs9380221
C4A	0.1590044	20	3.35E-10	rs9275576
HLA-DRB5	0.3571254	20	1.64E-10	rs3104383
HLA-DRB6	0.8644288	20	4.44E-08	rs9271415
HLA-DQB1	0.1661777	20	2.34E-13	rs9274639
HLA-DQB1-AS1	0.1064284	20	3.67E-08	rs9274639
XXbac-BPG254F23.7	0.1868224	20	2.40E-09	rs3957148
HLA-DQA2	0.1348989	20	2.22E-08	rs685810

HLA-DQB2	1	20	2.99E-10	rs9274669
RPS26	0.2761498	20	8.28E-07	rs11171739
DR-eQTL(pancreas)				
SKIV2L	0.05989946	20	7.93E-19	rs550671
HLA-DRB6	0.9999975	20	3.58E-36	rs9272323
HLA-DRB1	0.4179073	20	3.95E-21	rs9271718
HLA-DQA1	1	20	3.05E-27	rs12527758
HLA-DQA2	0.9447037	20	9.53E-38	rs9271589
HLA-DQB2	1	20	6.93E-49	rs3828811
SUOX	0.1973086	20	1.10E-07	rs1081975
RPS26	0.1123601	20	1.38E-08	rs1131017
TG-eQTL(blood)				
PABPC4	0.6571437	20	8.34E-09	rs61779310
HAX1	0.2080825	4	1.25E-06	rs12742691
PAQR6	0.104487	20	6.35E-06	rs6701440
SMG5	0.08828646	20	6.21E-06	rs6701440
C1orf85	0.1119719	20	6.33E-06	rs6701440
RAB7L1	0.4990045	20	2.54E-06	rs708723
RP11-686O6.2	0.4796878	20	2.73E-08	rs2350809
RP11-378A13.1	0.4787891	20	9.72E-08	rs56344368
PNKD	0.1173843	20	2.63E-07	rs10203039
RP11-459I19.1	0.1647054	16	1.14E-10	rs6757772
LRRFIP2	0.1965396	20	2.16E-08	rs9846039
P4HTM	0.104447	20	4.82E-06	rs6442131
QRICH1	0.3029794	20	1.45E-08	rs3087866
DCAF16	0.1214833	19	4.76E-06	rs12640250
JMY	0.1864971	20	8.36E-08	rs10052358
TNFAIP8	0.08783191	20	4.80E-08	rs7703744
CTC-228N24.3	0.122176	17	7.38E-07	rs1993878
AC034220.3	0.2470422	20	4.21E-06	rs272877
HSPA4	0.2430355	13	1.07E-12	rs72801474

WDR55	0.3001851	20	2.89E-06	rs72800942
HMGXB3	0.269423	20	5.37E-07	rs3812008
NSG2	0.2577854	15	2.49E-06	rs56197583
HIST1H2BD	0.1136144	20	2.18E-08	rs1059490
ZNRD1	0.1693859	20	2.44E-06	rs73725908
HLA-DQA1	0.1637034	20	6.37E-14	rs17843580
HLA-DQB1	0.2571511	20	8.87E-18	rs3134993
HLA-DQB2	0.3733514	20	6.97E-18	rs9274660
HLA-DPB2	0.06687616	20	1.42E-07	rs9277538
NUDCD3	0.05986955	20	4.63E-08	rs17711200
AC018720.10	0.1828052	20	3.91E-07	rs62477685
POR	0.1159295	20	9.40E-08	rs2302429
RP11-307C18.1	0.2173886	20	1.12E-07	rs7015
SRPK2	0.09247098	20	7.03E-07	rs56269269
COG5	0.1704936	20	3.39E-09	rs10264412
ALG1L13P	0.2075832	20	5.69E-07	rs10087493
MFHAS1	0.07667752	20	6.02E-08	rs617813
FDFT1	0.1951702	20	1.36E-10	rs2645430
RP13-582O9.5	0.08180431	20	2.75E-06	rs72695727
VLDLR	0.06675334	20	1.70E-07	rs34881325
UBAP1	0.8497727	20	1.32E-07	rs62556595
GDI2	0.8243703	20	6.13E-07	rs3736461
TTC18	0.1569583	7	9.11E-07	rs2271910
LIPA	0.2058957	20	5.81E-06	rs1412444
EIF2S2P3	0.07220116	20	9.04E-10	rs2185756
EML3	0.1303975	20	6.58E-12	rs11231161
KCNK7	0.2989805	14	7.90E-07	rs12419237
SIPA1	0.1854423	18	2.65E-07	rs66864335
PACS1	0.1363326	20	6.66E-08	rs535395
FAM76B	0.1765666	20	4.99E-07	rs11021317
PPP2R1B	0.3213531	20	4.92E-06	rs640651

GPR19	0.3653011	20	5.13E-06	rs35756741
RP11-996F15.2	0.2086244	20	1.46E-12	rs7136223
LYZ	0.4505944	20	1.10E-10	rs4761234
RAD9B	0.2426851	20	2.52E-06	rs11065688
TMEM116	0.1988721	15	2.21E-08	rs7312472
STK24	0.2277044	20	5.26E-07	rs4772101
LINC00565	0.06755617	20	4.94E-08	rs7334530
USP3	0.200773	20	1.08E-16	rs62011287
SNX1	0.06414011	20	5.24E-06	rs12591947
TRIP4	0.3454464	13	7.94E-07	rs11071801
PDXDC1	0.07745378	20	3.61E-06	rs3743531
INO80E	0.1402904	20	2.84E-09	rs8054556
HSD3B7	0.07497287	20	5.74E-10	rs4889606
ZNF668	0.4890483	20	4.00E-12	rs4889530
PRSS53	0.1957033	20	3.62E-06	rs7199949
VKORC1	0.06544352	20	2.59E-07	rs7187995
KAT8	0.191252	15	3.69E-06	rs1060506
CTRL	0.3950603	20	5.62E-06	rs112434994
RP11-296I10.6	0.07627572	20	1.88E-07	rs4985407
EXOSC6	0.07934411	20	1.00E-07	rs4985407
TOP3A	0.4799227	20	2.42E-06	rs35253049
CTC-510F12.2	0.4892038	8	1.06E-09	rs147762096
KIAA1683	0.1802093	20	4.62E-08	rs10406080
RP11-420K14.3	0.1280981	20	4.26E-06	rs4319878
ZNF100	0.1186802	20	4.49E-06	rs6511291
PEPD	0.2971348	20	6.35E-07	rs16968074
PPP5C	0.07226879	20	1.20E-15	rs62136101
SPHK2	0.1101788	12	2.20E-06	rs10426317
FCGRT	0.5079397	20	2.02E-09	rs59774409
TMC4	0.1520125	20	3.01E-06	rs60204587
HM13	0.2631888	20	4.94E-09	rs6059690

RPL36P4	0.2099049	20	9.38E-15	rs7261820
MYBL2	0.1857679	20	1.16E-06	rs285205
SYS1	0.2671656	15	4.43E-07	rs2743439
NELFCD	0.1221675	20	3.36E-07	rs17851253
UBE2L3	0.252588	15	6.37E-07	rs5754422
MIF	0.06813819	20	4.63E-12	rs5760120
AP000350.4	0.07030329	20	1.66E-12	rs5760120
AP000350.5	0.05211039	20	1.22E-12	rs5760120
AP000350.6	0.2176492	20	3.81E-12	rs5760120
DDTL	0.2541146	20	1.33E-08	rs5751775
KB-226F1.2	0.06470971	20	3.68E-10	rs5751775
SUN2	0.05560402	20	4.92E-07	rs4821816
RP1-29C18.8	0.05949611	20	6.78E-06	rs135876
TG-eQTL(kidney)				
PRELID1	0.3499109	12	5.93E-06	rs28362590
C4A	0.1804028	20	6.80E-10	rs9275576
L3MBTL3	0.4339202	20	1.90E-07	rs7740107
FAM86B3P	0.9352293	20	8.08E-08	rs2980439
XKR9	0.2449011	15	8.76E-06	rs2732092
CWF19L1	0.6688155	20	4.95E-05	rs12413812
RPS26	0.1139006	20	6.12E-06	rs11171739
CLEC18A	0.1387109	20	8.42E-05	rs4985489
RP11-296I10.6	0.7701359	20	5.19E-05	rs9924898
EXOSC6	0.3277093	20	2.23E-06	rs4985407
RP11-345M22.2	0.1298574	16	5.57E-06	rs7203910
NUP85	0.1934061	9	5.35E-05	rs7222849
CCDC57	0.4829355	18	7.46E-06	rs8080305
RPL36P4	0.4372529	19	8.92E-09	rs12481365
MIF	0.251815	20	8.77E-07	rs5760120
AP000350.4	0.3860872	20	6.35E-09	rs5760120
AP000350.5	0.1757136	20	3.13E-09	rs5760120

AP000350.6	0.5779348	20	1.19E-07	rs5760120
GSTT2B	0.0978431	20	1.35E-06	rs5751775
DDTL	0.4163536	20	2.29E-06	rs5760175
KB-226F1.2	0.3038786	20	1.62E-07	rs5751775
TG-eQTL(pancreas)				
RP11-69E11.8	0.1604185	20	5.32E-10	rs3768321
HAX1	0.4102417	11	2.42E-06	rs1760801
RP11-378J18.8	0.07350113	20	3.89E-06	rs17163360
KRTCAP3	0.127096	15	8.55E-11	rs6717803
CEP68	0.4170471	20	1.81E-14	rs74181299
ALS2CR12	0.08961757	18	3.29E-06	rs2110690
RP11-686O6.2	0.4715934	19	2.24E-07	rs57080353
RP11-378A13.1	0.20258	20	9.40E-07	rs6736362
WNT6	0.05200469	4	6.37E-10	rs78058190
LRRFIP2	0.1452345	20	8.92E-06	rs11714716
QRICH1	0.1937455	20	5.91E-08	rs7373072
AMT	0.08466743	20	5.53E-09	rs6446262
IDUA	0.05939678	20	1.37E-07	rs11248061
MAEA	0.3310335	20	1.97E-06	rs11721372
DCAF16	0.1377858	20	3.29E-06	rs7667864
RP11-696N14.1	0.08709566	20	4.84E-07	rs6858148
LRRC37A15P	0.1279658	20	7.87E-06	rs223492
MCC	0.4693886	20	1.37E-06	rs4428399
CTC-228N24.3	0.8584859	20	4.75E-09	rs34576922
HSPA4	0.8938137	5	2.67E-08	rs72801474
HLA-DQA1	0.5718693	20	1.85E-12	rs12527758
HLA-DQB2	0.1882444	20	3.62E-14	rs3828811
RPL7L1	0.06642221	14	5.11E-06	rs9471951
GSTA1	0.06923044	20	1.41E-10	rs9395823
JAZF1	0.6208077	20	1.20E-07	rs849134
NUDCD3	0.405276	20	8.22E-07	rs306999

RP11-307C18.1	0.8219876	20	1.70E-06	rs6967728
ALG1L13P	0.0639088	20	8.48E-08	rs2980439
RP11-481A20.10	0.5780751	20	1.54E-06	rs113521614
RAB2A	0.3102553	20	2.98E-06	rs10957144
XKR9	0.3512565	11	4.66E-08	rs1477944
TRPS1	0.2684768	20	3.29E-06	rs2205279
SEC16A	0.6253584	20	1.46E-07	rs66477686
GDI2	0.9358651	20	1.42E-06	rs3736461
NUDT13	0.2739996	7	7.14E-08	rs12257799
MARK2P9	0.6979639	20	9.18E-10	rs17875327
CWF19L1	0.06341236	20	1.37E-07	rs12784396
ZDHHC6	0.1219501	15	2.71E-07	rs11195939
CACUL1	0.8564892	20	2.30E-08	rs68149531
SPTY2D1	0.4455328	20	3.22E-06	rs10832962
CEP57	0.1180353	20	7.08E-07	rs4430471
RPS26	0.0635014	20	2.40E-07	rs1131017
MAPKAPK5	0.3363238	20	6.72E-06	rs4766764
CCDC92	0.05057071	20	5.71E-10	rs1054852
FBRSL1	0.3767992	20	1.50E-07	rs74397112
TRIP4	0.2715696	17	3.31E-06	rs579447
RP11-166B2.1	0.6385497	20	8.65E-06	rs393329
KAT8	0.0557362	20	1.12E-07	rs59735493
RP11-419C5.2	0.06380922	20	1.84E-08	rs7205851
RP11-296I10.6	0.2346025	20	5.36E-07	rs4985407
EXOSC6	0.1834493	20	1.48E-07	rs4985407
SHMT1	0.08712709	20	9.37E-09	rs12937300
TMEM101	0.3137111	20	8.92E-07	rs77536093
NPC1	0.07837803	20	2.21E-10	rs12964689
KIAA1683	0.1571654	20	4.95E-07	rs1079165
ZNF100	0.1108071	20	3.54E-06	rs6511291
SEC1P	0.4933377	12	2.89E-06	rs10426317

RPL36P4	0.2976394	20	3.32E-14	rs7263068
NELFCD	0.06996313	20	8.01E-07	rs17851253
CCDC116	0.4710968	14	6.84E-06	rs5754100
MIF	0.5673489	20	4.85E-11	rs5760120
AP000350.4	0.2831136	20	6.65E-12	rs5760120
AP000350.5	0.2718629	20	3.49E-12	rs5760120
AP000350.6	0.119531	20	1.34E-10	rs4822455
DDTL	0.1133514	20	8.63E-12	rs5760120
KB-226F1.2	0.07056165	20	1.96E-11	rs5760120
DDT	0.4181627	20	1.08E-11	rs5760120
AP000351.3	0.0786442	20	3.47E-08	rs5760175
KREMEN1	0.4442609	20	1.64E-07	rs134613
NIPSNAP1	0.2616461	20	3.54E-07	rs9613968
DDX17	0.0637654	20	4.18E-09	rs2267390
TOMM22	0.1214887	20	1.17E-06	rs4821815
CELSR1	0.09817031	20	8.53E-08	rs9615970
WHR-eQTL(blood)				
RERE	0.2159704	20	6.54E-06	rs301802
SPSB1	0.9761048	20	9.79E-10	rs72641831
PRMT6	0.7656954	20	3.41E-08	rs2232015
RP11-378A13.1	0.3725322	20	1.55E-06	rs56344368
PDCD6IP	0.1708511	20	3.02E-06	rs1141054
SETD2	0.08736367	20	6.96E-06	rs12493425
PLXND1	0.551543	20	2.75E-07	rs9866653
IDUA	0.08688615	20	3.16E-09	rs11248061
USP53	0.8427827	20	5.18E-06	rs138204164
PIIP5K2	0.2294019	20	2.73E-06	rs464720
HSPA4	0.2345054	13	1.58E-08	rs72801474
NDST1	0.1175225	20	1.95E-06	rs12519827
NSG2	0.1973629	15	3.95E-07	rs56197583
DDAH2	0.2905511	20	1.58E-06	rs3130487

CYP21A2	0.1622949	20	8.81E-07	rs1617322
NOTCH4	0.1420554	20	9.13E-07	rs66509442
CUL9	0.1411004	20	6.51E-06	rs6924555
SLC18B1	0.3217822	20	7.74E-07	rs56170227
AC018720.10	0.1063231	20	2.82E-06	rs62477685
ZKSCAN5	0.1771018	20	2.25E-06	rs11761528
RP11-325F22.5	0.3298024	20	5.10E-08	rs2470950
RP11-325F22.2	0.05496067	20	2.59E-09	rs2470950
FGFR1	0.06772557	20	2.01E-10	rs17182002
TMEM245	0.1086519	20	2.92E-06	rs2176692
MED27	0.6714457	20	1.36E-07	rs7040224
AKR1C1	0.7002728	20	1.01E-06	rs67362530
AKR1C2	0.5394821	20	5.77E-06	rs12764498
RP11-351I24.1	0.1080356	20	3.71E-07	rs11042725
ARNTL	0.07360192	20	3.94E-07	rs34862781
EML3	0.1007734	20	1.81E-11	rs11231161
LTBP3	0.4345728	20	2.06E-06	rs4102217
SNX32	0.09355382	20	2.46E-06	rs17854357
PACS1	0.08423091	20	1.08E-06	rs535395
ANKK1	0.08809926	20	7.69E-07	rs11214603
RP11-110I1.14	0.2429339	13	2.12E-07	rs1177563
IPO8	0.3049813	20	1.36E-06	rs12830910
STK24	0.06643138	20	1.86E-06	rs4772101
RPAP1	0.09948928	20	4.91E-06	rs2297379
PAM16	0.3952382	20	1.27E-07	rs2289303
NPIP7	0.1989434	20	2.36E-10	rs62034319
SULT1A2	0.217137	20	6.51E-14	rs2925630
EIF3C	0.5251964	20	1.23E-06	rs62036614
MVP	0.1995852	13	1.84E-06	rs11859871
ATP6V0D1	0.2438609	20	8.46E-07	rs11860837
HOXB3	0.1250911	20	3.09E-06	rs72829824

GGA3	0.2733867	20	1.01E-06	rs9988
LRRC45	0.1020726	20	9.89E-07	rs4072801
DYM	0.421673	20	1.86E-08	rs73441559
GPCPD1	0.06244169	12	1.45E-09	rs805770
TOM1	0.3903499	20	1.86E-08	rs138785
WHR-eQTL(kidney)				
SLC35E2B	0.07213341	15	7.78E-05	rs72634826
ZNF436	0.1571144	12	2.69E-05	rs1535179
C1orf213	0.1067172	11	5.34E-05	rs7532311
RBM6	0.6277669	20	2.34E-06	rs7613875
TIPARP-AS1	0.5783613	13	6.30E-05	rs1367311
ZFP57	0.1323302	20	8.21E-05	rs3131895
C4A	0.2452312	20	4.59E-06	rs9275576
HLA-DQA2	0.1337787	20	5.09E-06	rs685810
L3MBTL3	0.6820818	20	7.88E-05	rs7740107
HSD17B12	0.4086838	20	5.87E-06	rs2176598
RP11-707O23.5	0.6878741	3	2.93E-08	rs62055888
LRRC37A	0.194029	11	1.42E-07	rs3874943
CEP192	0.2758528	20	2.78E-06	rs9961669
WHR-eQTL(pancreas)				
RP11-69E11.8	0.9210852	20	1.29E-06	rs3768321
METTL21A	0.7908374	20	8.78E-06	rs2551928
PDCD6IP	0.3207508	20	4.09E-06	rs7626555
IDUA	0.09363273	20	8.32E-09	rs11248061
CLOCK	0.4956399	20	6.77E-07	rs12648271
CTC-228N24.3	0.1277483	20	1.32E-06	rs34576922
HSPA4	0.8347451	5	1.82E-06	rs72801474
HCG27	0.07851714	20	1.13E-06	rs28362345
JAZF1	0.3597052	20	3.19E-06	rs849134
AKR1C2	0.2048418	20	7.47E-06	rs67362530
RP11-613D13.5	0.4722829	20	9.31E-06	rs57635800

EML3	0.1590227	15	3.16E-06	rs2516633
DOC2GP	0.2705533	20	5.79E-06	rs12800028
ANKK1	0.5544433	16	4.24E-06	rs11214589
RP11-110I1.14	0.08406149	9	3.23E-06	rs1184902
HMBS	0.4529317	20	2.21E-10	rs1799993
RPAP1	0.522407	20	4.23E-06	rs2297383
PAM16	0.4505248	20	8.10E-07	rs2289303
CDC37P1	0.1738167	20	2.32E-11	rs62037365
RP11-1348G14.4	0.9214227	20	3.91E-06	rs6565293
LRRC36	0.1435355	20	4.88E-06	rs9937212
KANSL1	0.1137948	20	1.46E-08	rs62074125
LRRC37A2	0.1834501	3	5.26E-11	rs9897399
WNT3	0.06957151	12	1.44E-08	rs199526
GGA3	0.5342308	20	7.27E-06	rs4789158
CEP192	0.06864648	20	8.01E-07	rs11663049
CEBPA-AS1	0.5980124	20	1.11E-07	rs17529595
PROCR	0.06562832	20	9.56E-07	rs10747514
WHRadjBMI-eQTL(blood)				
SPSB1	0.9296758	20	2.37E-11	rs72641831
MUL1	0.4019834	20	6.20E-06	rs6700034
AC010982.1	0.3633049	20	9.91E-07	rs7558402
RP11-378A13.1	0.22356	20	3.62E-06	rs56344368
PNKD	0.05000737	20	1.35E-06	rs10203039
PDCD6IP	0.6193434	20	8.82E-07	rs1141054
SETD2	0.179861	20	1.10E-07	rs12493425
P4HTM	0.1453163	20	1.74E-06	rs6442131
PLXND1	0.2212596	20	9.42E-08	rs9866653
IDUA	0.05120836	20	4.47E-09	rs11248061
CYTL1	0.260961	19	4.46E-08	rs62291611
USP53	0.383485	20	9.14E-08	rs138204164
ATP6AP1L	0.3758453	20	7.10E-07	rs178931

TNFAIP8	0.4068074	20	3.03E-07	rs7703744
CTC-228N24.3	0.1981971	20	4.84E-07	rs1993878
HSPA4	0.09955535	13	1.67E-09	rs72801474
U91328.19	0.09263429	20	9.09E-08	rs13202592
GABBR1	0.3345169	20	1.33E-07	rs2747429
DDAH2	0.08161654	20	4.44E-06	rs3130487
HLA-DMA	0.05467978	20	2.16E-06	rs59576053
SLC18B1	0.283267	20	3.32E-06	rs56170227
RP11-325F22.5	0.07152792	20	5.18E-07	rs2470950
NEIL2	0.3606699	20	4.36E-07	rs804270
FDFT1	0.6860629	20	1.45E-06	rs2645430
FGFR1	0.2645657	20	2.89E-06	rs17182002
AKR1C1	0.17664	20	3.74E-09	rs67362530
AKR1C2	0.3345785	20	1.67E-07	rs12764498
AP006621.6	0.07469775	20	9.32E-08	rs4963156
RP11-351I24.1	0.06998137	20	1.24E-08	rs11042725
IFFO1	0.589609	20	4.69E-06	rs2286726
IPO8	0.19732	20	1.80E-07	rs12830910
JMJD7	0.2221976	20	7.03E-06	rs2695165
PAM16	0.06193053	20	2.99E-09	rs2289303
AKTIP	0.05785437	20	4.64E-06	rs7184800
ATP6V0D1	0.1269992	20	6.52E-10	rs11860837
C16orf86	0.1006805	20	5.73E-06	rs140837060
ALKBH5	0.06389462	16	3.00E-07	rs11871970
KANSL1-AS1	0.09218484	3	1.53E-11	rs199456
GGA3	0.3198833	20	1.35E-06	rs9988
DNAH17	0.1140463	20	6.40E-07	rs16971269
LRRC45	0.08930857	20	1.41E-06	rs4072801
DYM	0.338411	20	3.34E-08	rs73441559
SSC5D	0.181759	16	4.09E-06	rs62130160
GPCPD1	0.07333195	12	8.03E-11	rs805770

OPRL1	0.1514069	20	1.52E-11	rs8126001
RNF185	0.3660192	20	3.50E-07	rs71324184
PIK3IP1	0.3646569	20	2.20E-06	rs2027982
TOM1	0.05689857	20	1.59E-08	rs138785
WHRadjBMI-eQTL(kidney)				
ZNF436	0.1530285	12	4.31E-05	rs1535179
RP11-15I11.3	0.4671307	12	2.03E-05	rs1470390
ZFP57	0.2834285	20	2.01E-08	rs3131895
PSORS1C3	0.9029459	20	1.61E-05	rs9380221
HLA-DQA2	0.1505513	20	1.86E-06	rs685810
L3MBTL3	0.8574449	20	1.42E-07	rs7740107
AKR1C2	0.1142095	8	1.65E-05	rs56136181
AP006621.5	0.05828437	20	3.33E-07	rs4963156
C15orf57	0.07153097	20	6.86E-05	rs7175905
LYSMD4	0.09574123	20	5.61E-05	rs11631604
RP11-707O23.5	0.684555	3	4.46E-08	rs62055888
RP11-259G18.2	0.05227719	10	5.36E-07	rs199534
LRRC37A	0.1697746	11	3.09E-07	rs3874943
LRRC37A2	0.1028106	7	3.59E-07	rs199536
CEP192	0.8448417	20	4.77E-05	rs9961669
WHRadjBMI-eQTL(pancreas)				
RP11-15I11.3	0.0773623	20	1.08E-09	rs968531
CYBRD1	0.1294933	20	9.78E-06	rs960749
WNT6	0.08136807	4	2.59E-06	rs78058190
PDCD6IP	0.3014483	20	4.64E-06	rs7626555
NEK4	0.07550953	20	1.38E-06	rs3755799
RPL32P3	0.05134489	20	5.79E-07	rs4128193
ARHGEF26	0.2222264	20	3.21E-06	rs1727894
CLOCK	0.1692542	20	9.68E-08	rs12648271
ANXA5	0.240896	20	1.23E-06	rs13109053
ATP6AP1L	0.6312817	20	9.21E-07	rs862241

CTC-228N24.3	0.118267	20	5.96E-10	rs34576922
HSPA4	0.7557057	5	5.99E-07	rs72801474
PSORS1C3	0.6676071	20	1.15E-07	rs9380221
WASF5P	0.06797464	20	6.11E-15	rs6457374
CYP21A1P	0.05387239	20	1.94E-06	rs2856448
C6orf106	0.162657	20	1.75E-11	rs2744948
JAZF1	0.07327042	20	1.56E-11	rs849134
TMEM60	0.6997003	20	3.47E-06	rs6465828
AF131215.9	0.3150262	20	3.91E-08	rs34772085
AKR1C2	0.0604056	20	1.85E-07	rs67362530
PNPLA2	0.1702039	20	1.63E-06	rs4963120
AP006621.8	0.1267594	20	5.73E-08	rs61876744
DOC2GP	0.3330365	20	8.14E-06	rs12800028
STK38L	0.05023496	20	3.27E-07	rs10842897
JMJD7	0.5124076	20	7.67E-07	rs28680296
PAM16	0.2799332	20	5.07E-08	rs2289303
LRRC36	0.08470011	20	2.57E-08	rs9937212
KANSL1	0.09951071	20	2.48E-07	rs62074125
KANSL1-AS1	0.0706637	4	3.98E-10	rs199456
WNT3	0.308583	12	2.43E-09	rs199526
CEBPA-AS1	0.3188601	20	1.23E-08	rs17529595
SSC5D	0.2383591	10	6.25E-07	rs8103017
PROCR	0.09151676	20	1.84E-07	rs10747514
OPRL1	0.09578433	20	7.82E-14	rs8126001
DN-eQTL(blood)				
PSORS1C3	0.5423785	20	1.21E-11	rs9380220
HLA-C	0.21551	20	5.53E-10	rs2524105
DDAH2	0.09138846	20	3.14E-06	rs3130487
HLA-DRB6	1	20	1.06E-32	rs28366333
HLA-DRB1	0.999998	20	3.62E-19	rs9271465

HLA-DQA1	0.9999999	20	2.86E-32	rs17843580
HLA-DQB1	1	20	7.46E-52	rs3134993
HLA-DQA2	0.9999974	20	1.30E-35	rs9271589
HLA-DQB2	1	20	8.11E-51	rs9274660
HLA-DOA	0.09071979	20	6.27E-06	rs416622
DN-eQTL(kidney)				
PSORS1C3	0.9321018	20	1.18E-06	rs9380221
C4A	0.1543682	20	2.09E-08	rs9275576
HLA-DRB5	0.5156974	20	7.94E-09	rs3104383
HLA-DRB6	0.7324906	20	1.87E-07	rs9271415
HLA-DQB1	0.158045	20	4.26E-11	rs9274639
HLA-DQB1-AS1	0.09994677	20	2.29E-07	rs9274639
XXbac-BPG254F23.7	0.2399808	20	6.56E-09	rs3957148
HLA-DQA2	0.1802968	20	1.18E-07	rs685810
HLA-DQB2	0.9999993	20	1.93E-09	rs9274669
DN-eQTL(pancreas)				
PSORS1C3	0.3252451	20	0.0350896	rs9380221
HLA-B	0.05305595	20	0.132354	rs2394907
HLA-DRB6	1	20	0.046023	rs9272323
HLA-DRB1	0.9357669	20	0.112314	rs9271718
HLA-DQA1	0.9999999	20	0.0763741	rs12527758
HLA-DQB1	0.08984647	20	0.0392538	rs9272339
HLA-DQA2	0.9870596	20	0.0394723	rs9271589
HLA-DQB2	1	20	0.0375391	rs3828811

Only present the gene with Ponferroni-corrected P -value (SMR) < 0.05 , P (HEIDI) > 0.05 .

Table S8. Exploring the connection between pQTL datasets and 7 GWAS studies by SMR analysis

protein	P value (HEIDI test)	Number of SNPs used in HEIDI test	P value (SMR)	topSNP
BMI-pQTL				
NADK	0.3222418	20	3.06E-11	rs4648629
EFEMP1	0.386029	20	1.82E-05	rs3791679
LRIG1	0.5561614	20	1.29E-07	rs2306272
CADM2	0.1822398	20	8.23E-08	rs9880919
MANBA	0.3586757	20	3.58E-05	rs223492
HHIP	0.1309144	20	6.09E-07	rs11727676
ERAP1	0.1354165	20	3.15E-09	rs30186
TXNDC15	0.1584629	20	2.45E-05	rs3733897
TREML2	0.3363795	20	1.10E-07	rs4714431
FUT10	0.4207751	20	2.83E-06	rs2732318
RMDN1	0.1507589	20	5.14E-10	rs7459811
OLFM1	0.8766242	20	1.34E-06	rs10858334
NELL1	0.2306843	20	4.51E-08	rs8176786
ERBB3	0.1782684	20	1.69E-11	rs2292238
FASN	0.7673083	20	1.45E-06	rs62078746
ENTPD6	0.1631963	20	2.94E-10	rs6050446
APOL3	0.4921068	20	1.20E-05	rs132642
HDL-C-pQTL				
MXRA8	0.1647103	20	1.03E-05	rs2765021
PPCS	0.6481249	20	3.27E-06	rs4660635
PCSK9	0.7821495	10	2.01E-05	rs11591147
ANGPTL3	0.2158512	20	8.32E-14	rs10889333
DDAH1	0.1753442	20	9.72E-06	rs233071
CRABP2	0.1679042	20	2.15E-07	rs3806412
GLUL	0.4488221	15	1.21E-09	rs61805076
COLEC11	0.6390541	20	7.88E-33	rs6542680
VPS24	0.06026123	20	5.82E-07	rs59613942
DNER	0.8388139	20	5.92E-06	rs35975053

TLR1	0.5463328	20	4.47E-07	rs5743618
HHIP	0.1699104	20	1.99E-07	rs11727676
MLN	0.1668405	20	1.61E-12	rs9394169
EPHB4	0.2226192	20	2.42E-05	rs314345
DOK2	0.0574081	20	1.05E-05	rs17615788
AKR1C4	0.5290313	20	4.96E-13	rs17134617
SRGN	0.6535945	20	1.73E-05	rs2229498
SPOCK2	0.07798115	20	7.78E-06	rs3312
F2	0.2992618	7	3.75E-06	rs1799963
PDGFD	0.4684316	20	2.62E-11	rs10791660
FKBP4	0.8773169	20	7.14E-13	rs56196860
NID2	0.1163428	20	5.09E-06	rs941622
GSTZ1	0.165896	20	1.17E-05	rs7975
WARS	0.06571611	20	2.42E-09	rs4905957
ANGPTL4	0.1750995	3	6.59E-24	rs116843064
CD33	0.5762542	20	7.30E-06	rs3865444
DKD-pQTL				
CFB	0.05585146	20	2.17E-08	rs541862
DR-pQTL				
MANBA	0.3143559	20	5.59E-06	rs223490
TG-pQTL				
NADK	0.4623645	20	6.79E-07	rs4648629
EPHA2	0.08186052	20	1.92E-12	rs924204
ANGPTL3	0.6610071	20	5.58E-73	rs10889333
FCGR3A	0.3515797	20	7.88E-07	rs10800573
FCGR3B	0.1602098	20	1.11E-06	rs10800573
ANGPTL1	0.5632074	20	2.38E-06	rs10913568
COLEC11	0.6018834	20	7.09E-19	rs6542680
IL1RL1	0.6610284	20	2.48E-05	rs950880
TNFAIP6	0.3130178	20	1.35E-05	rs2278089
LMAN2	0.1791203	20	2.25E-07	rs28419182

MLN	0.06209072	20	2.02E-06	rs9394169
GSTA1	0.2685707	20	1.72E-34	rs4715316
GUSB	0.2047404	20	1.55E-05	rs2949690
POR	0.06422104	20	2.08E-06	rs59882870
MSR1	0.7192333	5	9.04E-09	rs41341748
AKR1C4	0.3200862	20	4.96E-27	rs17134617
PNLIPRP2	0.6409694	20	4.58E-07	rs2286779
F2	0.4421125	7	1.08E-11	rs1799963
PDGFD	0.6955918	20	7.00E-07	rs10791660
C1S	0.7708138	20	6.43E-06	rs12146727
C1R	0.7843941	20	1.06E-05	rs10849546
HEBP1	0.05109759	10	1.95E-06	rs1941
GAS6	0.2716861	20	6.83E-45	rs6602909
GLTPD2	0.2213943	20	8.33E-15	rs34460487
ACE	0.1550817	20	1.21E-06	rs4353
FASN	0.08755557	20	5.16E-10	rs62078746
ANGPTL4	0.1759155	3	3.91E-24	rs116843064
LILRB5	0.1418698	20	3.70E-08	rs12975366
ENTPD6	0.1257481	20	2.05E-07	rs6050446
ASIP	0.1796467	20	6.98E-11	rs6059655
PLTP	0.287775	20	6.24E-114	rs111602331
WHR-pQTL				
LRP8	0.2552469	20	1.99E-05	rs7542607
CFHR2	0.05189618	20	2.66E-06	rs4085749
FN1	0.06405479	20	1.38E-06	rs1250258
DNER	0.1123856	20	1.48E-07	rs35975053
PDCD6IP	0.3430565	20	1.73E-06	rs1141054
FGF2	0.1795651	20	9.06E-07	rs308403
HHIP	0.08466127	20	5.23E-07	rs11727676
TXNDC15	0.3031959	20	7.01E-06	rs3733897
SEMA3C	0.991933	20	2.18E-06	rs917191

PTN	0.8994779	20	3.66E-06	rs322329
PENK	0.148616	20	1.70E-05	rs2609985
FKBP4	0.4761097	20	8.65E-06	rs56196860
ERBB3	0.1644422	20	3.07E-05	rs2292238
NID2	0.1679155	20	2.23E-05	rs941622
NEO1	0.1261615	20	5.46E-07	rs13379875
CSK	0.5418374	20	1.99E-05	rs34933034
DPEP2	0.1630646	20	3.79E-05	rs76359116
ATP1B2	0.05460485	20	2.94E-08	rs1642762
ICAM1	0.2383395	20	2.33E-05	rs5498
ENTPD6	0.4281151	20	1.57E-06	rs6050446
WHRadjBMI-pQTL				
PDCD6IP	0.6156459	20	4.45E-07	rs1141054
FGF2	0.05160708	20	1.77E-11	rs308403
SEMA3C	0.8055512	20	4.44E-10	rs917191
MSR1	0.4693741	5	1.48E-06	rs41341748
CLMP	0.5211968	20	2.15E-05	rs2302605
FKBP4	0.2100903	20	3.14E-09	rs56196860
TMEM132C	0.9793307	20	3.97E-07	rs9669390
NID2	0.1203576	20	1.90E-07	rs941622
AGRP	0.2153172	20	1.06E-08	rs114322795
MRC2	0.8663955	20	1.24E-06	rs146385050
ANGPTL4	0.3786955	3	4.80E-06	rs116843064

Only present the gene with Ponferroni-corrected P -value (SMR) < 0.05 , P (HEIDI) > 0.05 .

Table S9. Significantly colocized genes identified by multitrait colocization using HyPrColoc

Trait pair	Candidate SNP	posterior explained by snp	GENE	PP
HDL-C-DR-eQTL(blood)	rs10876864	0.7714	SUOX	0.7627
HDL-C-DR-eQTL(blood)	rs1131017	1	RPS26	0.5109
TG-DKD-eQTL(blood)	rs695399	0.4921	NIPSNAP1	0.5547
TG-DR-eQTL(blood)	rs6805723	0.9992	ZBTB20	0.9137
HDL-DR-eQTL(kidney)	rs11171739	0.8782	RPS26	0.9803
BMI-DR-eQTL(pancreas)	rs849135	0.9952	JAZF1	0.9415
BMI-DR-eQTL(pancreas)	rs2051772	0.8697	NCR3LG1	0.7277
BMI-DR-eQTL(pancreas)	rs2051772	0.7051	RP1-239B22.5	0.7881
HDL-C-DR-eQTL(pancreas)	rs10876864	0.9534	SUOX	0.816
HDL-C-DR-eQTL(pancreas)	rs11171739	0.7834	IKZF4	0.7767
HDL-C-DR-eQTL(pancreas)	rs1131017	1	RPS26	0.5109
HDL-C-DR-eQTL(pancreas)	rs3184504	0.998	NAA25	0.4298
TG-DKD-eQTL(pancreas)	rs695399	0.487	NIPSNAP1	0.737
WHRadjBMI-DR-eQTL(pancreas)	rs4439492	0.5491	NCR3LG1	0.712
WHRadjBMI-DR-eQTL(pancreas)	rs4439492	0.4295	RP1-239B22.5	0.7864

The candidate SNP was also identified as candidate casual SNP in corresponding locus for a certain trait pair. PP,posterior probability.

Table S10. Mendelian randomization analysis between obesity-related traits and diabetic microvascular complications

Exposure	Outcome	Method	nsnp	Beta	SE	P	or	or_lci95	or_uci95	Pleiotropy egger intercept/ <i>P</i>	Heterogeneity Qstat/ <i>P</i>
BMI	DKD	Inverse variance weighted	448	0.521	0.079	0.000	1.684	1.441	1.967	0.996	0.997
BMI	DR	Inverse variance weighted	444	0.362	0.050	0.000	1.436	1.302	1.584	0.950	0.991
BMI	DN	Inverse variance weighted	514	0.826	0.099	5.15E-17	2.284	1.882	2.770	0.013	4.62E-06
HDL-C	DKD	Inverse variance weighted	454	0.257	0.068	0.000	1.294	1.133	1.477	0.001	0.000
HDL-C	DR	Inverse variance weighted	454	0.226	0.055	0.000	1.254	1.126	1.397	0.000	0.000
HDL-C	DN	Inverse variance weighted	454	0.225	0.082	0.006	1.252	1.066	1.47	0.005	3.55E-11
TG	DKD	Inverse variance weighted	436	-0.469	0.090	0.000	0.625	0.525	0.745	0.000	0.000
TG	DR	Inverse variance weighted	436	-0.276	0.074	0.000	0.759	0.656	0.877	0.000	0.000
TG	DN	Inverse variance weighted	436	-0.259	0.098	0.008	0.771	0.637	0.934	0.000	5.06E-14
WHR	DKD	Inverse variance weighted	287	0.715	0.097	0.000	2.043	1.689	2.471	0.033	0.755
WHR	DR	Inverse variance weighted	279	0.429	0.063	0.000	1.536	1.357	1.738	0.015	0.999
WHR	DN	Inverse variance weighted	304	0.592	0.1113	1.10E-07	1.8074	1.453	2.249	0.900	0.998
WHRadjBMI	DKD	Inverse variance weighted	269	0.385	0.086	0.000	1.470	1.242	1.739	0.784	0.964
WHRadjBMI	DR	Inverse variance weighted	263	0.278	0.056	0.000	1.320	1.184	1.472	0.827	0.936
WHRadjBMI	DN	Inverse variance weighted	288	0.324	0.097	0.000	1.382	1.142	1.672	0.531	0.948
DKD	BMI	Inverse variance weighted	9	0.000	0.011	0.973	1.000	0.978	1.023	0.490	0.000
DKD	HDL-C	Inverse variance weighted	11	0.000	0.012	0.974	1.000	0.976	1.024	0.031	0.000

DKD	TG	Inverse variance weighted	11	0.002	0.018	0.915	1.002	0.967	1.038	0.092	0.000
DKD	WHR	Inverse variance weighted	9	0.003	0.007	0.651	1.003	0.989	1.017	0.188	0.000
DKD	WHRadjB MI	Inverse variance weighted	9	0.004	0.011	0.747	1.004	0.982	1.026	0.128	0.000
DR	BMI	Inverse variance weighted	25	0.007	0.021	0.756	1.007	0.965	1.050	0.322	0.000
DR	HDL-C	Inverse variance weighted	26	-0.003	0.018	0.860	0.997	0.962	1.033	0.684	0.000
DR	TG	Inverse variance weighted	26	-0.006	0.017	0.717	0.994	0.962	1.027	0.387	0.000
DR	WHR	Inverse variance weighted	15	0.003	0.005	0.532	1.003	0.994	1.012	0.466	0.300
DR	WHRadjB MI	Inverse variance weighted	15	0.004	0.003	0.179	1.004	0.998	1.011	0.874	0.317
DN	BMI	Inverse variance weighted	5	0.000	0.005	0.930	1.000	0.990	1.011	0.406	0.169
DN	HDL	Inverse variance weighted	7	-0.009	0.008	0.242	0.990	0.976	1.006	0.486	1.29E-16
DN	TG	Inverse variance weighted	7	0.017	0.014	0.231	1.017	0.989	1.045	0.283	5.27E-59
DN	WHR	Inverse variance weighted	6	0.000	0.009	0.978	1.000	0.9823	1.018	0.128	4.98E-11
DN	WHRadjB MI	Inverse variance weighted	6	-0.004	0.011	0.670	0.995	0.973	1.018	0.131	2.80E-17

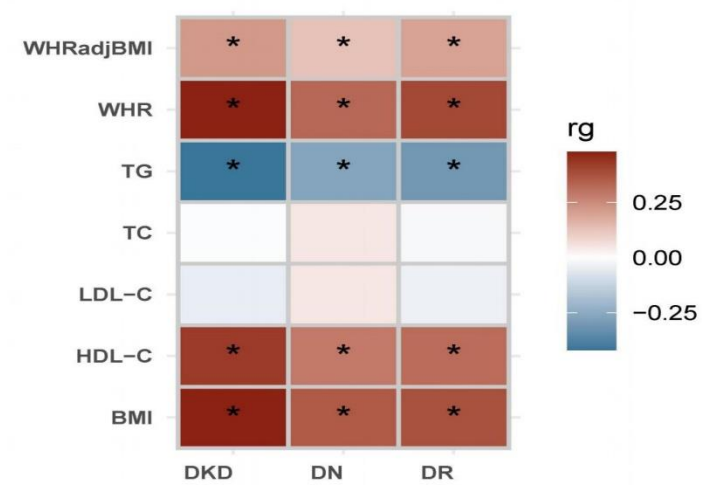
9

Table S11. Exploring causality and pleiotropy in the relationship between obesity and diabetic microvascular complications using LCV

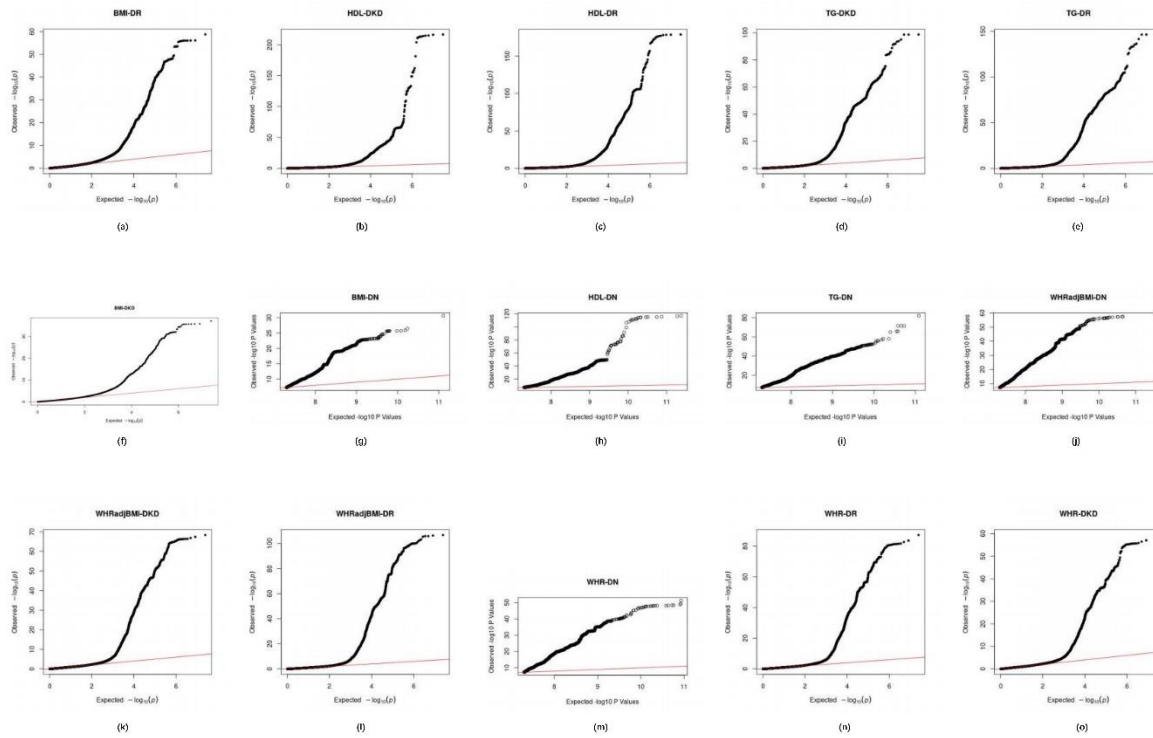
Trait1	Trait2	GCP	GCP se	P
BMI	DKD	0.752986534	0.184382705	0.000154593
BMI	DR	0.63877505	0.242098735	0.013592476
BMI	DN	0.621749589	0.233267858	0.00700065
HDL-C	DKD	-0.115325979	0.547205777	0.486091222
HDL-C	DR	0.66306666	0.227557698	0.003796629

HDL-C	DN	0.820430147	0.130793798	4.70741E-14
TG	DKD	-0.139138191	0.50837607	0.974836872
TG	DR	-0.342748396	0.424584101	0.35470376
TG	DN	-0.183740899	0.478014882	0.998929426
WHR	DKD	0.542712338	0.229128005	0.020634757
WHR	DR	0.102602495	0.170379099	0.590172663
WHR	DN	0.1857845	0.210565791	0.490347094
WHRadjBMI	DKD	0.351551032	0.185640179	0.070206879
WHRadjBMI	DR	0.129625034	0.142945599	0.53105851
WHRadjBMI	DN	0.25405061	0.141003821	0.108465072

se, standard error; GCP,Genetic Causation Proportion



Supplementary figure 1 The X-axis shows diabetic microvascular complications, the Y-axis shows obesity-related traits, and each cell shows the corresponding rg (genetic correlation coefficient), with an asterisk indicating $P < 0.002$.



Supplementary figure 2 Q-Q plots depicts expected $-\log_{10} P$ -values (x-axis) against observed $-\log_{10} P_{PLACO}$ -values (y-axis)

