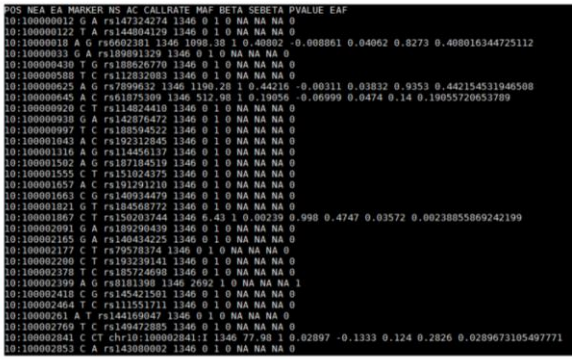
Input files



```
POS NEA EA MARKER NS AC CALLRATE MAF BETA SEBETA PVALUE EAF
10:100000012 G A rs147324274 1346 0 1 0 NA NA NA 0
10:100000122 T A rs144804129 1346 0 1 0 NA NA NA 0
10:10000018 A G rs6602381 1346 1098.38 1 0.40802 -0.008861 0.04062 0.8273 0.408016344725112
10:10000033 G A rs189891329 1346 0 1 0 NA NA NA 0
10:100000430 T G rs188626770 1346 0 1 0 NA NA NA 0
10:10000588 T C rs112832083 1346 0 1 0 NA NA NA 0
10:100000625 A G rs7899632 1346 1190.28 1 0.44216 -0.00311 0.03832 0.9353 0.442154531946508
10:100000645 A C rs61875309 1346 512.98 1 0.19056 -0.06999 0.0474 0.14 0.19055720653789
10:100000920 C T rs114824410 1346 0 1 0 NA NA NA 0
10:100000938 G A rs142876472 1346 0 1 0 NA NA NA 0
10:100000997 T C rs188594522 1346 0 1 0 NA NA NA 0
10:100001043 A C rs192312845 1346 0 1 0 NA NA NA 0
10:100001316 A G rs114456137 1346 0 1 0 NA NA NA 0
10:100001502 A G rs187184519 1346 0 1 0 NA NA NA 0
10:100001555 C T rs151024375 1346 0 1 0 NA NA NA 0
10:100001657 A C rs191291210 1346 0 1 0 NA NA NA 0
10:100001663 C G rs140934479 1346 0 1 0 NA NA NA 0
10:100001821 G T rs184568772 1346 0 1 0 NA NA NA 0
10:100001867 C T rs150203744 1346 6.43 1 0.00239 0.998 0.4747 0.03572 0.00238855869242199
10:100002091 G A rs189290439 1346 0 1 0 NA NA NA 0
10:100002165 G A rs140434225 1346 0 1 0 NA NA NA 0
10:100002177 C T rs79578374 1346 0 1 0 NA NA NA 0
10:100002200 C T rs193239141 1346 0 1 0 NA NA NA 0
10:100002378 T C rs185724698 1346 0 1 0 NA NA NA 0
10:100002399 A G rs8181398 1346 2692 1 0 NA NA NA 1
10:100002418 C G rs145421501 1346 0 1 0 NA NA NA 0
10:100002464 T C rs111551711 1346 0 1 0 NA NA NA 0
10:10000261 A T rs144169047 1346 0 1 0 NA NA NA 0
10:100002769 T C rs149472885 1346 0 1 0 NA NA NA 0
10:100002841 C CT chr10:100002841:I 1346 77.98 1 0.02897 -0.1333 0.124 0.2826 0.0289673105497771
10:100002853 C A rs143080002 1346 0 1 0 NA NA NA 0
```

RUNNING METAANALYSIS USING METAL

MARKERLABEL MARKER

ALLELELABELS EA NEA

EFFECTLABEL BETA

WEIGHTLABEL NS

PVALUELABEL PVALUE

STDERRLABEL SEBETA

FREQLABEL EAF

GENOMICCONTROL ON

AVERAGEFREQ ON

MINMAXFREQ ON

COLUMNCOUNTING LENIENT

CUSTOMVARIABLE NS

LABEL TOTALSAMPLESIZE AS NS

SCHEME STDERR

ADDFILTER EAF > 0

ADDFILTER EAF < 1

PROCESS ADDITION_PRO_Glucagon0.txt

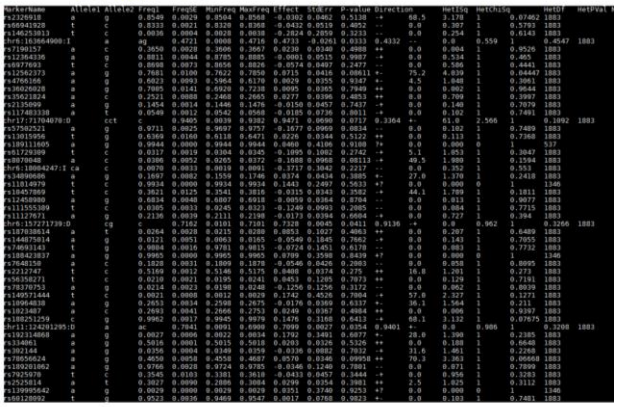
PROCESS GDM_Glucagon0.txt

OUTFILE Glucagon0 TBL

ANALYZE HETEROGENEITY

CLEAR

Output files



MarkerName	Allele1	Allele2	Freq1	FreqSE	MinFreq	MaxFreq	Effect	StdErr	P.value	Direction	HetISq	HetChiSq	HetDf	HetPVal
rs2326918	a	g	0.8549	0.0029	0.8504	0.8568	-0.0302	0.0462	0.5138	-+	68.5	3.178	1	0.07462	1883
rs60041928	t	c	0.8333	0.0021	0.8328	0.8368	-0.0432	0.0519	0.4052	--	0.0	0.307	1	0.5795	1883
rs14625013	t	c	0.0036	0.0004	0.0028	0.0038	-0.2824	0.2859	0.3233	--	0.0	0.254	1	0.6143	1883
chr6:163664900:I	a	ag	0.4721	0.0008	0.4716	0.4733	-0.0261	0.0333	0.4332	--	0.0	0.0	0.559	1	0.4547	1883
rs7190157	a	c	0.3650	0.0028	0.3606	0.3667	0.0230	0.0340	0.4988	++	0.0	0.004	1	0.9526	1883
rs12364336	a	g	0.8811	0.0044	0.8705	0.8885	-0.0001	0.0515	0.9987	-+	0.0	0.534	1	0.465	1883
rs6077693	t	c	0.8698	0.0073	0.8656	0.8826	-0.0574	0.0497	0.2477	--	0.0	0.586	1	0.4441	1883
rs12562373	a	g	0.7681	0.0100	0.7622	0.7850	0.0715	0.0416	0.08611	+-	75.2	4.039	1	0.04447	1883
rs4760146	a	g	0.6023	0.0093	0.5964	0.6170	0.0029	0.0355	0.9347	+-	4.5	1.048	1	0.3061	1883
rs36026028	a	g	0.7805	0.0141	0.6928	0.7238	0.0095	0.0365	0.7949	++	0.0	0.002	1	0.9644	1883
rs35621824	a	c	0.2521	0.0088	0.2468	0.2665	0.0277	0.0396	0.4853	++	0.0	0.709	1	0.3997	1883
rs2135099	a	g	0.1454	0.0014	0.1446	0.1476	-0.0150	0.0457	0.7437	-+	0.0	0.140	1	0.7079	1883
rs11748333	a	t	0.0549	0.0012	0.0542	0.0568	-0.0185	0.0736	0.8011	-+	0.0	0.102	1	0.7491	1883
chr17:71764078:D	cct	c		0.9405	0.0039	0.9382	0.9471	0.0690	0.0717	0.3364	+-	61.0	2.566	1	0.1092	1883
rs57502521	a	g	0.9711	0.0025	0.9697	0.9757	-0.1677	0.0969	0.0834	--	0.0	0.102	1	0.7489	1883
rs13015956	t	g	0.6369	0.0160	0.6118	0.6471	0.0226	0.0344	0.5122	++	0.0	0.113	1	0.7368	1883
rs189111605	a	g	0.9944	0.0000	0.9944	0.9944	0.0460	0.4106	0.9108	?+	0.0	0.000	0	1	537	
rs61726598	t	c	0.0317	0.0010	0.0304	0.0345	-0.1095	0.1082	0.3742	-+	5.1	1.053	1	0.3047	1883
rs887084	a	c	0.0386	0.0052	0.0265	0.0372	-0.1688	0.0968	0.08113	-+	49.5	1.980	1	0.1594	1883
chr6:18004247:I	ca	c	0.0070	0.0033	0.0019	0.0091	-0.3717	0.3042	0.2217	--	0.0	0.352	1	0.553	1883
rs34896606	a	g	0.1697	0.0082	0.1559	0.1746	0.0374	0.0434	0.3805	+-	27.0	1.370	1	0.2418	1883
rs11014979	t	c	0.9934	0.0000	0.9934	0.9934	0.1443	0.2497	0.5633	+?	0.0	0.000	0	1	1346	
rs10457869	t	c	0.3621	0.0125	0.3541	0.3816	-0.0315	0.0343	0.3582	-+	44.1	1.789	1	0.1811	1883
rs1245080	a	g	0.6814	0.0040	0.6807	0.6918	-0.0059	0.0364	0.8784	--	0.0	0.013	1	0.9077	1883
rs111553389	t	c	0.0305	0.0033	0.0245	0.0323	-0.1249	0.0993	0.2005	--	0.0	0.884	1	0.3715	1883
rs11127671	a	g	0.2196	0.0039	0.2111	0.2198	-0.0173	0.0394	0.6604	-+	0.0	0.727	1	0.394	1883
chr6:157271739:D	cg	c		0.7182	0.0101	0.7101	0.7328	0.0045	0.0411	0.9136	-+	0.0	0.962	1	0.3266	1883
rs187038814	a	t	0.0264	0.0028	0.0215	0.0288	0.0853	0.1027	0.4063	++	0.0	0.207	1	0.6489	1883
rs144875014	a	g	0.0121	0.0051	0.0063	0.0165	-0.0549	0.1845	0.7662	-+	0.0	0.143	1	0.7055	1883
rs74691141	t	g	0.9804	0.0016	0.9781	0.9815	-0.0724	0.1451	0.6178	--	0.0	0.083	1	0.7732	1883
rs188423837	a	g	0.9965	0.0000	0.9965	0.9965	0.0799	0.3598	0.8439	+?	0.0	0.000	0	1	1346	
rs7640150	a	c	0.1820	0.0031	0.1809	0.1870	-0.0540	0.0426	0.2093	--	0.0	0.858	1	0.8095	1883
rs2212747	t	c	0.5169	0.0012	0.5146	0.5175	0.0400	0.0374	0.275	++	16.8	1.201	1	0.273	1883
rs56358271	t	c	0.0210	0.0021	0.0195	0.0241	0.0453	0.1205	0.7073	++	0.0	0.129	1	0.7191	1883
rs78379751	a	g	0.0214	0.0023	0.0198	0.0248	-0.1256	0.1256	0.3172	--	0.0	0.862	1	0.8039	1883
rs149571444	t	c	0.0021	0.0008	0.0012	0.0029	0.1742	0.4526	0.7004	-+	57.0	2.327	1	0.1271	1883
rs10964838	a	g	0.2653	0.0034	0.2598	0.2675	-0.0176	0.0369	0.6337	+-	36.1	1.564	1	0.211	1883
rs1023487	a	c	0.2693	0.0041	0.2666	0.2753	0.0240	0.0367	0.4084	++	0.0	0.006	1	0.9397	1883
rs188251259	c	g	0.9982	0.0017	0.9945	0.9989	0.1476	0.3168	0.6413	-+	68.1	3.132	1	0.07675	1883
chr11:124291295:D	a	ac		0.7941	0.0091	0.6909	0.7999	0.0027	0.0354	0.9401	+-	0.0	0.986	1	0.3208	1883
rs192314068	a	g	0.0027	0.0006	0.0022	0.0034	0.1792	0.3491	0.6077	+-	28.0	1.390	1	0.2385	1883
rs134061	a	g	0.5016	0.0001	0.5015	0.5018	0.0203	0.0326	0.5326	++	0.0	0.188	1	0.6648	1883
rs302144	a	g	0.0356	0.0004	0.0349	0.0359	-0.0336	0.0882	0.7032	-+	31.6	1.461	1	0.2268	1883
rs78856624	a	g	0.4650	0.0058	0.4558	0.4687	0.0570	0.0346	0.09958	++	70.3	3.363	1	0.06668	1883
rs189201862	a	g	0.9766	0.0028	0.9724	0.9785	-0.0346	0.1240	0.7881	--	0.0	0.071	1	0.7899	1883
rs7925078	t	c	0.3545	0.0103	0.3381	0.3618	-0.0433	0.0457	0.3444	-+	0.0	0.956	1	0.3283	1883
rs2525014	a	t	0.3027	0.0090	0.2886	0.3084	0.0299	0.0354	0.3981	++	2.5	1.025	1	0.3112	1883
rs139905642	a	g	0.0029	0.0000	0.0029	0.0029	0.0351	0.3740	0.9253	+?	0.0	0.000	0	1	1346	
rs6128992	t	g	0.9523	0.0036	0.9469	0.9547	0.0017	0.0768	0.9823	+-	0.0	0.103	1	0.7481	1883