

Table S2: MVMR G-X and G-Y estimates

These are the independent replicated SNPs from our GWA used as genetic instruments in the MVMR analysis.

F in bold = F statistic for SNP associated with total testosterone (calculated as $F = b^2 / se^2$) → all are >10

SHBG = Sex Hormone Binding Globulin; TT = Total Testosterone.

In column Gene, a "-" means intergenic variant

SNP	CHR BP	ea	oe	eaf	Gene	Trait	G-X (SNPHormone)																
							TT - Males				TT - Females				SHBG - Males				SHBG - Females				
							b	SE	P	F	b	SE	P	F	b	SE	P	F	b	SE	P	F	
r15149706	1	16505320	A	G	43%	-	SHBG male	-0.008	0.002	1.90E-04	22.68	0.003	0.002	2.60E-01	1.28	-0.018	0.002	1.30E-16	68.39	-0.008	0.002	1.60E-03	9.95
r15189848	1	25788422	A	G	54%	MACO1	SHBG male	0.007	0.002	1.80E-04	14.08	0.001	0.002	7.50E-01	0.10	0.010	0.002	6.10E-06	20.44	-0.008	0.002	7.80E-04	11.28
r1514165349	1	27021913	G	C	98%	ARID1A	TT male / SHBG male	0.047	0.006	1.50E-14	59.13	-0.018	0.009	3.00E-02	4.70	0.091	0.007	8.00E-35	151.53	0.078	0.009	7.20E-20	83.26
r157540349	1	27180088	A	C	98%	ZDHHC18	SHBG female	0.048	0.006	2.00E-15	63.09	-0.018	0.009	3.40E-02	4.47	0.091	0.007	2.40E-34	149.37	0.077	0.009	2.80E-19	80.59
r15768321	1	40035928	G	T	81%	SNORA55	SHBG male	0.009	0.002	3.70E-05	17.04	-0.002	0.003	5.90E-01	0.30	0.016	0.003	4.90E-09	34.21	0.010	0.003	1.60E-03	9.94
r151806791	1	61684868	A	C	92%	NFIA	TT male	-0.013	0.003	4.90E-05	16.48	0.008	0.005	1.10E-01	2.61	-0.026	0.004	6.80E-11	42.58	-0.013	0.005	5.30E-03	7.79
r159708846	1	61687651	G	A	93%	NFIA	SHBG male	-0.014	0.003	1.60E-05	18.62	0.009	0.005	7.00E-02	3.29	-0.027	0.004	2.10E-11	44.87	-0.014	0.005	2.90E-03	8.86
r15969721	1	91530001	C	T	81%	-	SHBG female	0.000	0.002	8.30E-01	0.04	0.001	0.003	7.20E-01	0.13	0.004	0.003	1.10E-01	2.53	0.013	0.003	4.70E-05	16.55
r1510676893	1	92709689	T	TAC	19%	GLMN	TT male	-0.008	0.002	2.10E-04	13.72	0.006	0.003	4.90E-02	3.89	-0.015	0.003	2.70E-08	30.89	-0.012	0.003	8.00E-05	15.57
r156603991	1	92032583	T	C	20%	EVIS	SHBG male	-0.009	0.002	3.50E-05	17.10	0.006	0.003	4.30E-02	4.08	-0.016	0.003	5.90E-09	33.87	-0.012	0.003	1.20E-04	14.87
r156684361	1	101737743	T	C	69%	PPAP7	TT female	0.001	0.002	6.00E-01	0.28	-0.028	0.003	5.30E-25	106.65	-0.002	0.002	5.10E-01	0.44	-0.005	0.003	5.40E-02	3.72
r1512406721	1	107563243	G	T	66%	-	TT male	-0.010	0.002	8.50E-08	28.69	-0.009	0.003	6.50E-04	11.62	-0.021	0.002	3.40E-21	89.31	-0.020	0.003	2.10E-14	58.44
r151762509	1	107592959	A	G	34%	-	SHBG male	0.010	0.002	1.30E-08	32.37	0.009	0.003	5.60E-04	11.90	0.023	0.002	5.60E-25	106.54	0.021	0.003	9.60E-16	64.52
r151730864	1	107607810	C	T	34%	PRMT6	SHBG female	0.011	0.002	6.80E-09	33.59	0.009	0.003	5.00E-04	12.13	0.023	0.002	4.10E-25	107.18	0.021	0.003	1.30E-15	63.91
r15140584594	1	110232983	A	G	28%	GSTM1	SHBG male & female	0.003	0.002	1.10E-01	2.62	-0.003	0.003	2.60E-01	1.28	0.013	0.002	2.20E-08	31.31	0.017	0.003	2.00E-10	40.51
r15351364	1	113045061	A	T	25%	WNT2B	TT female	-0.004	0.002	4.10E-02	4.16	-0.010	0.003	5.20E-04	12.06	-0.006	0.002	2.20E-02	5.23	-0.002	0.003	5.90E-01	0.29
r159427104	1	154589232	C	T	53%	ADAR	SHBG male	-0.006	0.002	1.00E-03	10.77	-0.001	0.002	6.40E-06	12.62	-0.012	0.002	2.30E-08	31.24	-0.017	0.002	1.00E-11	46.30
r159426827	1	154589965	C	T	53%	ADAR	SHBG female	-0.006	0.002	8.90E-04	11.05	-0.001	0.002	7.80E-01	0.07	-0.012	0.002	2.10E-08	31.37	-0.016	0.002	3.00E-11	44.17
r15250477	1	179274897	G	C	76%	SOAT1	TT female	0.000	0.002	9.30E-01	0.01	-0.024	0.003	4.2E-17	70.69	0.000	0.002	9.10E-01	0.01	-0.002	0.003	8.60E-01	0.03
r15915180	1	19605991	G	C	59%	-	SHBG female	0.001	0.002	4.90E-01	0.48	-0.001	0.003	5.70E-01	0.33	0.007	0.002	1.00E-03	10.80	0.009	0.003	2.70E-04	13.25
r151428399	1	204161520	G	GT	75%	KISS1	TT male	-0.013	0.002	7.70E-11	42.32	0.000	0.003	8.80E-01	0.02	-0.004	0.002	1.20E-01	2.44	-0.001	0.003	8.00E-05	15.57
r1510864086	1	214318748	A	C	26%	UNC2275	SHBG male	0.007	0.002	4.90E-04	12.15	0.002	0.003	3.90E-01	0.75	0.014	0.002	1.00E-08	33.80	0.011	0.003	1.90E-04	13.89
r15286075	1	214320315	A	G	37%	UNC2275	SHBG female	0.005	0.002	3.20E-03	8.66	0.002	0.003	3.60E-01	0.84	0.013	0.002	7.50E-10	37.89	0.010	0.003	7.20E-05	15.77
r152643438	1	220970028	A	G	29%	MTRAC1	SHBG male	-0.005	0.002	6.40E-03	7.45	0.002	0.003	4.40E-01	0.59	-0.015	0.002	1.20E-10	41.44	-0.010	0.003	2.20E-04	13.69
r151299558	2	12553355	G	A	95%	RNU6-843P	TT female	0.003	0.004	4.80E-01	0.49	-0.030	0.006	1.30E-07	27.86	0.000	0.005	9.70E-01	0.00	-0.003	0.006	6.00E-01	0.27
r1576527790	2	27055853	A	G	89%	-	SHBG male	-0.005	0.003	5.80E-02	3.61	-0.002	0.004	5.50E-01	0.36	-0.015	0.004	1.20E-05	19.12	-0.012	0.004	4.40E-03	8.12
r1513032431	2	27301404	G	T	95%	EMILIN1	SHBG male & female	0.017	0.004	4.10E-05	16.81	0.009	0.006	1.20E-01	2.48	0.023	0.005	3.60E-06	21.49	0.029	0.006	5.50E-07	25.09
r156547546	2	27393382	T	C	94%	-	SHBG female	-0.015	0.004	4.80E-05	16.53	-0.004	0.005	4.10E-01	0.67	-0.025	0.005	2.00E-08	31.52	-0.021	0.005	5.10E-05	16.39
r1557800810	2	27416517	A	G	6%	-	TT male	0.015	0.004	3.70E-05	17.02	0.012	0.005	1.50E-02	5.93	0.027	0.004	6.50E-10	38.15	0.017	0.005	6.90E-04	11.51
r1515961201	2	27704896	G	A	96%	IFT172	SHBG male	-0.012	0.005	1.40E-02	6.05	-0.011	0.007	9.30E-02	2.83	-0.022	0.006	1.90E-04	13.93	-0.033	0.007	8.40E-07	24.25
r1571631241	2	27709510	A	G	98%	IFT172	SHBG male	0.012	0.006	4.10E-02	4.16	0.023	0.008	3.80E-03	8.39	0.025	0.007	3.20E-04	12.96	0.029	0.008	2.90E-04	13.11
r151260326	2	27730940	T	C	39%	GOKR	TT male & female / SHBG male & female	-0.020	0.002	1.60E-28	122.76	-0.016	0.003	8.70E-10	37.59	-0.037	0.002	1.50E-65	295.36	-0.032	0.003	9.60E-38	164.91
r1562131877	2	27740328	C	T	95%	GOKR	SHBG male	-0.021	0.004	6.20E-08	29.30	-0.009	0.006	1.20E-01	2.44	-0.035	0.005	4.20E-13	52.54	-0.017	0.006	1.90E-03	9.68
r151969131	2	28341375	C	T	83%	BABAM2	SHBG male	0.008	0.002	1.20E-03	10.54	0.006	0.003	5.60E-02	3.64	0.011	0.003	1.90E-04	13.97	0.012	0.003	2.30E-04	13.58
r157775907	2	31609942	G	A	96%	XDH	SHBG male	-0.059	0.005	1.10E-34	150.90	-0.008	0.007	2.30E-01	1.45	-0.026	0.006	8.20E-06	19.90	-0.003	0.007	6.90E-01	0.16
r1513017476	2	31989359	G	A	96%	-	TT male	-0.059	0.005	3.90E-37	162.12	-0.010	0.007	1.50E-01	2.07	-0.024	0.006	2.70E-05	17.62	-0.006	0.007	3.60E-01	0.83
r1562142079	2	32178752	C	T	56%	MEMO1	TT male	0.011	0.002	1.00E-09	37.32	-0.002	0.003	3.30E-01	0.95	0.003	0.002	2.30E-01	1.44	0.001	0.002	7.50E-01	0.10
r157287535	2	32873774	C	T	96%	TTCT7	SHBG male	-0.050	0.005	3.70E-27	116.48	-0.004	0.007	5.50E-01	0.36	-0.023	0.006	7.50E-05	15.68	-0.010	0.007	1.50E-01	2.07
2.3038262_TTT	2	33038262	TTAT	T	96%	-	TT male	-0.048	0.005	3.40E-22	93.85	-0.001	0.007	9.20E-01	0.01	-0.022	0.006	2.50E-04	13.43	-0.008	0.007	2.60E-01	1.29
r156736913	2	42510018	A	G	2%	EMU4	SHBG male	0.012	0.006	5.30E-02	3.73	0.013	0.009	1.50E-01	2.03	0.033	0.008	1.70E-05	18.50	0.034	0.009	1.40E-04	14.50
r157599564	2	43509617	A	G	39%	THADA	TT female	0.003	0.002	5.30E-02	3.75	0.010	0.003	5.10E-05	16.42	0.005	0.002	2.20E-02	5.26	0.001	0.003	7.10E-01	0.14
r1510165929	2	64902288	A	C	26%	SERTAD2	SHBG female	0.006	0.002	1.80E-03	9.72	-0.005	0.003	5.90E-02	3.58	0.014	0.002	5.60E-09	33.98	0.026	0.003	4.30E-20	84.26
r15654096	2	64906295	A	G	26%	SERTAD2	SHBG male	0.007	0.002	9.80E-04	10.86	-0.005	0.003	8.60E-02	2.94	0.015	0.002	1.80E-09	36.19	0.027	0.003	4.40E-21	88.77
r158088484	2	704																					

r6939861	6	41703041	G	A	74%	TFEB	SHBG male & female	0.008	0.002	3.20E-05	17.28	0.001	0.003	8.30E-01	0.04	0.012	0.002	1.00E-06	23.92	0.017	0.003	3.30E-09	34.97
r7763558	6	43349215	G	A	67%	-	TT female	0.002	0.002	1.80E-01	1.79	0.016	0.003	1.40E-09	36.63	0.003	0.002	2.50E-01	1.33	0.003	0.003	2.40E-01	1.38
r6458869	6	52630269	C	A	35%	GSTA12P	SHBG male	0.000	0.002	8.90E-01	0.02	-0.004	0.003	1.40E-01	2.14	-0.009	0.002	1.40E-04	14.49	0.004	0.003	1.60E-01	1.94
r51933801	6	105365725	C	T	32%	LN28B-AS1	TT male	-0.012	0.002	3.90E-11	43.67	-0.005	0.003	6.60E-02	3.38	0.003	0.002	1.60E-01	1.94	-0.008	0.003	2.00E-03	6.59
r51032388	6	119171866	T	C	22%	CM9M	TT female	-0.001	0.002	5.80E-01	0.30	-0.024	0.003	2.90E-15	62.34	0.001	0.003	5.70E-01	0.32	-0.008	0.003	9.70E-03	9.70
r513230350	6	127182820	C	A	58%	-	TT female	-0.007	0.002	2.20E-04	13.65	0.010	0.003	1.00E-04	15.12	-0.007	0.002	2.90E-03	8.87	-0.006	0.003	1.30E-02	6.19
r9399469	6	144318529	T	A	38%	PLA1GL1	TT female	0.005	0.002	6.30E-03	7.45	-0.011	0.003	4.20E-05	16.76	0.006	0.002	3.60E-03	8.46	0.001	0.003	5.90E-01	0.29
r54841782	6	160770512	G	GT	53%	SLC22A3	SHBG female	-0.007	0.002	3.60E-05	17.09	-0.007	0.003	8.00E-03	7.02	-0.013	0.002	6.80E-10	38.07	-0.011	0.002	4.20E-06	21.18
r5506823	6	160771465	C	A	53%	SLC22A3	SHBG male	-0.007	0.002	5.30E-05	16.35	-0.006	0.002	1.60E-02	5.83	-0.013	0.002	6.10E-10	38.27	-0.012	0.002	1.10E-06	23.76
r9986829	7	15019259	G	A	49%	DKB8	TT male	-0.010	0.002	4.00E-09	34.61	-0.001	0.003	8.40E-01	0.04	0.002	0.002	2.60E-01	1.28	-0.002	0.002	4.10E-01	0.67
r849135	7	28196413	G	A	51%	JAZF1	SHBG male	-0.005	0.002	6.80E-03	7.34	0.001	0.002	7.90E-01	0.07	-0.011	0.002	1.30E-07	27.84	-0.011	0.002	1.50E-05	18.68
r514060476	7	73037956	A	G	87%	MUXPL1	TT female	0.000	0.003	9.10E-01	0.01	-0.019	0.004	3.00E-07	26.25	-0.009	0.003	4.00E-03	8.29	-0.006	0.004	1.30E-01	2.31
r5122492	7	81564122	T	C	27%	-	SHBG male	0.008	0.002	1.00E-04	15.09	0.004	0.003	1.80E-01	1.81	0.013	0.002	1.40E-07	27.66	0.012	0.003	1.30E-05	19.02
r9445	7	92408370	C	T	90%	CDK6	SHBG male	0.005	0.003	6.30E-02	3.46	0.008	0.004	5.40E-02	3.70	0.014	0.004	7.10E-05	15.79	0.006	0.004	1.40E-01	2.14
r6950023	7	97915635	T	G	19%	BR3	SHBG male	-0.016	0.002	1.20E-12	50.52	-0.006	0.003	7.20E-02	3.24	-0.034	0.003	4.80E-36	157.11	-0.036	0.003	7.00E-30	128.95
r5147098434	7	97917357	T	G	99%	BAIAP2L1	TT male	0.032	0.008	1.80E-04	14.05	0.007	0.012	5.80E-01	0.30	0.052	0.010	5.90E-07	24.94	0.029	0.012	1.60E-02	5.75
r55886062	7	97942070	C	CTG	19%	BAIAP2L1	SHBG female	-0.016	0.002	3.20E-12	48.57	-0.006	0.003	6.80E-02	3.34	-0.033	0.003	2.90E-33	144.39	-0.036	0.003	2.80E-29	126.19
r51635612	7	98015049	G	T	19%	BAIAP2L1	TT male	-0.015	0.002	1.10E-11	46.11	-0.005	0.003	1.10E-01	2.52	-0.032	0.003	1.20E-32	141.62	-0.035	0.003	3.10E-28	121.44
r576083622	7	98814780	G	A	98%	KPNA7	TT female	-0.002	0.006	7.40E-01	0.11	0.054	0.009	9.50E-09	32.95	0.004	0.008	6.00E-01	0.27	0.005	0.009	5.80E-01	0.31
r5116928828	7	98831324	G	A	98%	KPNA7	TT female	-0.002	0.006	7.10E-01	0.14	0.039	0.009	7.60E-06	29.02	-0.002	0.007	7.50E-01	0.11	-0.002	0.008	8.00E-01	0.06
r510230276	7	98948904	C	T	90%	ARPC1A	TT female	-0.007	0.003	1.40E-02	6.09	0.016	0.004	1.50E-04	14.32	-0.009	0.004	1.30E-02	6.10	-0.015	0.004	1.80E-04	14.02
r54446698	7	99332948	T	G	96%	CYP3A7	TT female	-0.012	0.004	6.00E-03	7.55	0.051	0.007	2.80E-14	516.25	0.002	0.005	7.80E-01	0.08	0.015	0.006	1.40E-02	6.06
r513238380	7	99629061	C	T	63%	ZKSCAN1	TT female	0.001	0.002	5.20E-01	0.41	0.008	0.003	1.20E-03	10.45	0.002	0.002	2.90E-01	1.12	0.005	0.003	5.70E-02	3.63
r57778571	7	99664817	A	G	76%	ZSCAN21	TT female	0.001	0.002	6.90E-01	0.16	0.014	0.003	3.40E-06	21.58	0.001	0.003	6.80E-01	0.17	-0.005	0.003	5.70E-02	3.62
r5140500498	7	99740363	A	G	99%	-	TT female	-0.004	0.009	6.90E-01	0.16	0.070	0.012	2.50E-08	31.09	0.008	0.011	4.40E-01	0.59	-0.010	0.012	4.20E-01	0.65
r5117319142	7	100282707	G	A	92%	ACHE	SHBG female	0.003	0.005	5.20E-01	0.41	0.026	0.008	7.20E-04	11.44	0.013	0.007	4.80E-02	3.90	0.044	0.008	6.10E-01	0.26
r51324899	7	10049131	A	G	81%	ACHE	SHBG female	-0.008	0.002	4.80E-04	12.18	-0.004	0.003	2.20E-01	1.53	-0.017	0.003	3.90E-10	39.16	-0.015	0.003	3.30E-06	21.63
r513228864	7	100499315	G	A	82%	ACHE	SHBG female	-0.008	0.002	8.10E-04	11.23	-0.003	0.003	3.50E-01	0.88	-0.017	0.003	7.30E-10	37.93	-0.016	0.003	5.40E-07	25.10
r53252944	7	101831484	T	TA	67%	CLU1	SHBG male	0.003	0.002	9.80E-02	2.73	-0.001	0.003	7.50E-01	0.11	0.009	0.002	1.50E-04	14.41	0.007	0.003	1.20E-02	6.30
r5157935	7	110585553	G	A	70%	UNC-PNT	SHBG male	-0.006	0.002	3.00E-03	8.80	-0.004	0.003	1.30E-01	2.30	-0.012	0.002	8.60E-07	24.23	-0.010	0.003	1.10E-04	14.99
r51038626	7	13779477	A	T	21%	AKR1D1	TT female	-0.003	0.002	1.70E-01	1.90	-0.020	0.003	3.80E-11	43.72	-0.007	0.003	8.10E-03	7.00	-0.001	0.003	6.90E-01	0.16
r534372369	7	143092269	G	A	95%	EPHA1	SHBG male	-0.013	0.004	1.30E-03	10.35	-0.004	0.006	4.60E-01	0.54	-0.022	0.005	5.20E-06	20.75	-0.014	0.006	1.60E-02	5.81
r7150502468_AT_7	7	150502468	AT	A	89%	-	SHBG male	-0.008	0.003	6.20E-03	7.50	-0.004	0.004	3.50E-01	0.87	-0.017	0.003	8.80E-07	24.17	-0.016	0.004	7.50E-05	15.67
r9987289	8	9183358	A	G	9%	PPPIR3B-DT	SHBG female	-0.015	0.003	4.60E-07	25.41	0.011	0.004	1.20E-02	6.32	-0.025	0.004	1.00E-11	46.32	-0.018	0.004	1.30E-05	19.05
r52126259	8	9185146	T	C	10%	PPPIR3B-DT	SHBG male	-0.014	0.003	2.50E-06	22.18	0.007	0.004	9.00E-02	2.87	-0.022	0.004	1.30E-09	36.84	-0.015	0.004	2.90E-04	13.13
r577258375	8	42332640	C	CT	65%	SLC22A2	SHBG female	-0.008	0.002	1.00E-03	19.43	0.001	0.003	7.30E-01	0.12	-0.008	0.002	6.30E-04	11.68	-0.012	0.003	5.20E-06	20.76
r4738684	8	59393273	A	G	33%	-	SHBG male	-0.006	0.002	2.10E-03	9.50	0.007	0.003	1.10E-02	6.39	-0.014	0.002	1.10E-09	37.15	-0.011	0.003	6.80E-05	15.86
r513269725	8	72459889	A	G	92%	EYA1	SHBG female	-0.003	0.003	3.70E-01	0.82	0.008	0.005	7.00E-02	3.28	-0.001	0.004	8.50E-01	0.24	0.019	0.005	3.10E-05	17.36
r5445199	8	77888084	C	T	74%	PEX2	TT male	0.009	0.002	1.90E-06	22.72	-0.001	0.003	7.00E-01	0.15	0.003	0.002	2.70E-01	1.02	0.004	0.003	2.10E-02	1.55
r511994858	8	81273210	A	G	35%	-	SHBG male	-0.004	0.002	1.60E-02	5.84	0.002	0.003	4.40E-01	0.60	-0.009	0.002	8.90E-05	15.36	-0.019	0.003	8.20E-13	51.22
r574856683	8	81323254	C	T	94%	-	SHBG female	0.014	0.004	3.90E-05	15.27	-0.005	0.005	3.80E-01	0.78	0.021	0.005	5.80E-06	20.56	0.030	0.005	9.70E-09	32.89
r5150539196	8	81399180	A	G	97%	ZBTB10	SHBG male	-0.015	0.003	1.90E-03	9.69	-0.006	0.007	4.10E-01	0.69	-0.036	0.006	3.60E-09	34.85	-0.048	0.007	8.20E-12	46.71
8.81430449_AT_8	8	81430449	AT	A	90%	-	SHBG female	-0.011	0.003	1.80E-04	14.04	-0.006	0.004	1.80E-01	1.80	-0.021	0.004	1.80E-09	36.17	-0.031	0.004	5.80E-14	56.43
8.81457499_CA_8	8	81457499	CA	C	78%	-	SHBG male & female	-0.008	0.002	2.50E-04	13.40	-0.005	0.003	8.10E-02	3.05	-0.015	0.003	6.90E-09	33.56	-0.026	0.003	3.20E-18	75.78
r51097816	8	81465147	A	G	92%	-	SHBG female	-0.009	0.003	3.80E-03	8.38	-0.005	0.005	3.10E-01	1.03	-0.014	0.004	5.90E-04	11.80	-0.025	0.005	3.00E-08	30.68
r6969954	8	81582148	C	T	10%	ZNF704	SHBG female	-0.016	0.003	2.70E-08	30.91	-0.002	0.004	6.60E-01	0.20	-0.020	0.004	1.20E-08	32.57	-0.026	0.004	3.30E-10	39.47
r53955534	8	81710349	A	G	90%	ZNF704	SHBG female	0.016	0.003	3.30E-07	26.09	0.005	0.004	2.30E-01	1.45	0.020	0.004	1.60E-07	27.49	0.025	0.004	5.30E-09	34.06
r57800970	8	81869319	A	G	95%	-	SHBG female	-0.005	0.004	2.50E-01	1.30	0.001	0.006	8.60E-01	0.03	-0.009	0.005	8.20E-02	3.03	-0.023	0.006	8.30E-05	15.50
r535783704	8	105966258	G	A	90%	ZFPM2	TT female	-0.003	0.003	3.60E-01	0.84	-0.027	0.004	2.70E-10	39.86	0.000	0.004	9.90E-01	0.00	0.003	0.004	4.20E-01	0.66
r5476266	8	116999790	T	A	4%	UNC00536	SHBG female	0.005	0.002	4.20E-03	8.21	-0.001	0.003	6.60E-01	0.20	0.004	0.002	4.40E-02	4.07	0.011	0.003	1.70E-05	18.49
r51134095	8	143054290	G	A	44%	CYP11B1	TT female	0.000	0.002	9.90E-01	0.00	0.											

r3740393	10	10463655	G	C	86%	A53MT	TT female	-0.001	0.003	7.30E-01	0.12	-0.013	0.004	3.30E-04	12.91	-0.002	0.003	4.20E-01	0.65	-0.007	0.004	4.50E-02	4.00
r3842761	11	2179352	G	C	75%	INS	SHBG female	-0.002	0.003	6.00E-01	0.27	-0.002	0.003	6.00E-01	0.27	-0.012	0.003	1.80E-06	22.81	-0.014	0.003	2.00E-06	22.62
r6486122	11	13361524	C	T	31%	BMALL	SHBG male	-0.002	0.003	4.20E-01	0.64	-0.002	0.003	4.20E-01	0.64	0.013	0.002	5.30E-09	34.09	0.013	0.003	4.50E-07	25.46
r51076078	11	13363248	A	G	34%	BMALL	SHBG female	-0.003	0.003	3.10E-01	1.05	-0.003	0.003	3.10E-01	1.05	0.012	0.002	1.90E-07	27.16	0.011	0.003	1.80E-05	18.41
r778571122	11	16247860	TTGT	G	61%	SOX6	SHBG male & female	0.005	0.003	5.90E-02	3.56	0.005	0.003	5.90E-02	3.56	0.010	0.002	1.30E-05	19.07	0.014	0.003	2.00E-08	31.50
r5174554	11	61579463	A	G	66%	FAD52	SHBG female	0.003	0.003	2.00E-01	1.65	0.003	0.003	2.00E-01	1.65	0.010	0.002	7.50E-06	20.06	0.011	0.003	2.30E-05	17.90
r5113172275	11	62905115	T	C	94%	SLC22A24	TT female	-0.030	0.005	1.50E-09	36.59	-0.030	0.005	1.50E-09	36.59	-0.013	0.004	2.60E-03	9.09	0.006	0.005	2.40E-01	1.39
r5146079754	11	64297912	T	C	99%	-	TT female	0.055	0.013	1.90E-05	18.29	0.055	0.013	1.90E-05	18.29	-0.002	0.011	8.70E-01	0.03	-0.011	0.013	4.00E-01	0.72
r52105688	11	65228618	T	A	67%	-	SHBG female	-0.001	0.003	7.00E-01	0.15	-0.001	0.003	7.00E-01	0.15	0.003	0.002	2.60E-01	1.27	0.013	0.003	1.80E-06	22.79
r512779706	11	65561369	G	A	76%	OVOL1	SHBG male & female	0.003	0.003	3.80E-01	0.76	0.003	0.003	3.80E-01	0.76	-0.010	0.003	4.40E-05	16.69	-0.012	0.003	4.80E-05	16.54
r51312023	11	68097049	G	A	47%	LRP5	TT female	0.011	0.002	1.90E-05	18.32	0.011	0.002	1.90E-05	18.32	-0.003	0.002	1.50E-01	2.11	-0.003	0.002	2.40E-01	1.37
r53884627	11	69025799	T	G	31%	-	SHBG male	0.003	0.003	2.50E-01	1.30	0.003	0.003	2.50E-01	1.30	0.009	0.002	1.60E-04	14.20	-0.001	0.003	7.30E-01	0.12
r512280075	11	69170389	T	G	67%	-	SHBG male	0.000	0.003	8.90E-01	0.02	0.000	0.003	8.90E-01	0.02	-0.014	0.002	1.60E-09	36.46	-0.009	0.003	5.40E-04	11.96
r572932198	11	69175126	G	A	96%	-	SHBG male	0.005	0.006	3.90E-01	0.74	0.005	0.006	3.90E-01	0.74	0.025	0.005	2.30E-06	22.31	0.003	0.006	6.10E-01	0.26
r534817958	11	69283255	G	A	77%	-	SHBG female	-0.007	0.003	1.50E-02	5.98	-0.007	0.003	1.50E-02	5.98	-0.016	0.003	9.20E-10	37.49	-0.012	0.003	7.00E-05	15.81
r6331695	11	69283303	T	G	42%	-	SHBG male	0.005	0.003	7.10E-02	3.26	0.005	0.003	7.10E-02	3.26	0.015	0.002	5.30E-12	47.59	0.008	0.003	1.90E-03	9.65
r5426907	11	72294440	G	A	70%	PDE2A	TT female	0.011	0.003	3.70E-05	17.03	0.011	0.003	3.70E-05	17.03	0.001	0.002	6.20E-01	0.25	-0.001	0.003	6.20E-01	0.25
r512575636	11	95311260	T	G	81%	-	SHBG female	0.003	0.003	2.80E-01	1.16	0.003	0.003	2.80E-01	1.16	0.006	0.003	3.40E-02	4.52	0.013	0.003	2.50E-05	17.77
r510791570	11	102125714	G	A	67%	-	SHBG male	0.006	0.003	3.90E-02	4.27	0.006	0.003	3.90E-02	4.27	0.009	0.002	9.80E-05	15.17	0.004	0.003	1.80E-01	1.80
r850294	11	123437669	C	T	89%	GRAMD18	TT female	-0.026	0.004	6.70E-11	42.60	-0.026	0.004	6.70E-11	42.60	0.006	0.003	1.10E-01	2.54	0.006	0.004	1.50E-01	2.08
r56196860	12	2908330	C	A	97%	FKBP4	TT male	-0.096	0.005	5.00E-79	54.27	0.028	0.007	1.10E-04	14.95	-0.021	0.006	6.50E-04	11.64	-0.020	0.007	7.10E-03	7.26
r57298820	12	20581339	A	T	80%	PDE3A	SHBG female	-0.005	0.002	1.70E-02	35.69	-0.005	0.003	8.20E-02	3.02	-0.011	0.003	8.60E-05	15.43	-0.014	0.003	4.10E-06	21.20
r536459132	12	20942031	A	AT	94%	-	SHBG male	-0.010	0.004	1.00E-02	6.62	0.012	0.005	2.90E-02	4.79	-0.017	0.005	2.20E-04	13.65	-0.005	0.005	3.90E-01	0.75
r510841648	12	20954557	C	A	35%	-	SHBG male	-0.005	0.002	7.20E-03	7.22	0.003	0.003	2.90E-01	1.12	-0.010	0.002	1.70E-05	18.50	-0.008	0.003	1.90E-03	9.64
r510841753	12	21321370	T	C	81%	SLC10B1	SHBG male	-0.014	0.002	2.80E-10	39.83	-0.007	0.003	4.10E-02	4.20	-0.021	0.003	5.20E-15	61.19	-0.017	0.003	1.70E-07	27.30
r5419056	12	21331549	T	C	85%	SLC10B1	TT male / SHBG male	0.015	0.002	8.00E-10	39.19	-0.014	0.003	8.80E-05	15.38	0.030	0.003	2.00E-23	99.47	0.027	0.003	1.50E-14	59.11
r511045383	12	21340507	G	A	79%	SLC10B1	TT male	-0.012	0.002	8.00E-09	33.28	-0.006	0.003	7.10E-02	3.27	-0.018	0.003	8.50E-12	46.65	-0.015	0.003	1.80E-06	22.85
r567981690	12	21343886	A	G	79%	SLC10B1	SHBG female	0.015	0.003	5.50E-09	34.01	0.011	0.004	3.70E-03	8.45	0.030	0.003	4.10E-21	88.94	0.025	0.004	1.30E-11	45.86
r510841772	12	21407368	A	G	75%	-	SHBG female	-0.011	0.002	3.90E-08	30.20	0.005	0.003	7.00E-02	3.28	-0.016	0.003	8.10E-11	42.23	-0.014	0.003	2.00E-06	22.60
r5112704675	12	21489926	C	T	92%	SLC10A2	SHBG male	0.012	0.003	2.90E-04	11.14	-0.005	0.005	2.30E-01	1.42	0.016	0.004	3.80E-05	16.95	0.014	0.005	2.00E-03	9.51
r512319043	12	24233568	A	G	96%	SOX5	SHBG female	0.006	0.004	1.90E-01	1.72	-0.006	0.006	3.00E-01	1.07	0.013	0.005	1.40E-02	6.09	0.023	0.006	1.70E-04	14.10
r575667995	12	25400070	T	C	93%	-	SHBG male	0.012	0.003	5.90E-04	11.80	-0.003	0.005	5.80E-01	0.31	0.027	0.004	3.30E-10	39.49	0.024	0.005	1.20E-06	23.55
r575130744	12	25410741	G	C	93%	-	SHBG female	0.012	0.003	7.70E-04	11.32	-0.002	0.005	6.90E-01	0.16	0.027	0.004	1.30E-10	41.27	0.024	0.005	9.10E-07	24.11
r54307773	12	51144432	T	C	42%	DP2B	SHBG female	0.005	0.002	2.90E-03	8.85	0.002	0.003	4.90E-01	0.48	0.007	0.002	2.40E-03	9.19	0.012	0.003	1.70E-06	22.87
r57974833	12	57791833	T	C	77%	R3HDM2	TT male	-0.008	0.002	2.50E-04	13.44	0.006	0.003	5.60E-02	3.66	-0.017	0.003	2.30E-11	44.69	-0.017	0.003	3.60E-09	31.85
r511614506	12	57815675	T	C	78%	R3HDM2	SHBG female	-0.007	0.002	3.80E-04	12.64	0.004	0.003	1.40E-01	2.21	-0.017	0.003	1.90E-11	45.04	-0.015	0.003	5.00E-07	25.25
r613528607	12	57839173	G	T	77%	INHBC	SHBG male	-0.007	0.002	6.60E-04	11.61	0.005	0.003	9.30E-02	2.82	-0.017	0.003	3.50E-11	43.87	-0.016	0.003	2.60E-08	31.01
r511110363	12	100783398	G	C	57%	SLC17A8	SHBG female	0.003	0.002	1.50E-01	2.07	0.004	0.003	1.10E-01	2.61	0.005	0.002	1.20E-02	6.28	0.013	0.003	9.70E-08	28.42
r5375115050	12	101015655	G	T	99%	GAS2L3	SHBG male	0.028	0.009	1.30E-03	10.31	0.001	0.012	9.40E-01	0.00	0.060	0.011	1.80E-08	31.67	0.074	0.012	3.60E-09	34.80
r541556543	12	101113238	C	T	99%	ANO4	SHBG female	0.040	0.009	7.00E-06	20.18	-0.018	0.012	1.40E-01	2.13	0.070	0.011	1.30E-10	41.25	0.080	0.013	1.70E-10	40.78
r510778174	12	102838996	A	G	55%	IFG1	SHBG female	0.003	0.002	1.90E-01	1.71	0.000	0.003	9.90E-01	0.00	0.004	0.002	9.00E-02	2.87	0.012	0.003	1.50E-05	18.72
r54764939	12	103522952	C	T	52%	-	SHBG female	0.004	0.002	1.60E-02	5.77	0.000	0.002	8.90E-01	0.02	0.003	0.002	2.20E-01	1.51	0.028	0.002	7.40E-29	124.25
r511830764	12	111515020	G	C	52%	CUX2	SHBG male & female	-0.009	0.003	2.70E-03	8.97	-0.002	0.004	6.00E-01	0.28	-0.024	0.004	2.90E-10	39.73	-0.035	0.004	3.60E-15	61.91
12-121405326_G	12	121405326	ICAGJ	G	52%	-	SHBG female	-0.008	0.002	1.40E-06	23.22	0.003	0.003	2.80E-01	1.16	-0.017	0.002	9.20E-16	64.60	-0.010	0.002	1.30E-04	14.62
r51800574	12	121416864	C	T	97%	HNF1A	SHBG female	0.011	0.005	3.00E-02	4.69	-0.007	0.007	3.10E-01	1.03	0.039	0.006	9.70E-10	37.39	0.015	0.007	4.70E-02	39.63
r57979473	12	121420260	G	A	39%	HNF1A	TT male / SHBG male	-0.011	0.002	2.90E-09	35.25	-0.007	0.003	1.10E-02	6.40	-0.023	0.002	2.30E-24	103.76	-0.011	0.003	1.90E-05	18.33
r51716407	12	124515218	G	A	41%	RFLNA	SHBG female	0.000	0.002	7.80E-01	0.08	0.006	0.003	2.40E-02	5.13	0.003	0.002	2.30E-01	1.43	0.009	0.003	4.10E-04	12.50
r6486542	12	130952209	C	T	57%	RIMBP2	TT male	0.007	0.002	1.80E-04	14.01	0.004	0.003	1.70E-01	1.92	0.001	0.002	7.70E-01	0.08	-0.001	0.003	5.80E-01	0.30
r9506725	12	12314146	T	C	64%	-	TT female	0.002	0.002	3.50E-01	0.87	0.021	0.003	3.80E-16	66.34	-0.002	0.002	3.10E-01	1.03	-0.001	0.003	7.70E-01	0.12
r512871430	12	12693188	C	T	81%	LINC00540	TT female	-0.001	0.002	6.90E-01	0.10	-0.017	0.003	7.60E-08	28.91	0.004	0.003	1.90E-01	1.68	-0.001	0.003	7.80E-01	0.08
r51724832	12	73131694	C	A	63%	-	TT female	0.001	0.002	6.90E-01	0.15	-0.009	0.003	7.80E-04	11.29	-0.003	0.002	1.90E					

rsl13286297	17	7355460	C	T	99%	CHRN1	SHBG male	0.025	0.008	1.30E-03	10.36	-0.009	0.011	4.10E-01	0.67	0.059	0.010	1.30E-09	36.78	0.046	0.011	3.50E-05	17.10
r552624772	17	7427694	C	G	99%	-	TT male / SHBG male	0.072	0.009	1.80E-16	67.76	0.040	0.013	1.60E-03	9.95	0.112	0.011	2.20E-26	112.97	0.137	0.012	5.00E-28	120.47
r578002826	17	7447636	C	T	89%	TNFSF12	TT male	-0.026	0.003	2.00E-21	90.36	-0.013	0.004	1.10E-03	10.66	-0.043	0.003	4.20E-38	166.56	-0.059	0.004	5.30E-52	230.25
r62059800	17	7448573	G	A	89%	TNFSF12	SHBG male	-0.027	0.003	2.70E-22	94.34	-0.013	0.004	1.50E-03	10.12	-0.043	0.003	1.10E-36	160.01	-0.061	0.004	1.80E-54	241.54
rsl1602989	17	7456489	C	T	83%	TNFSF12	TT male / SHBG male	0.052	0.002	3.60E-115	520.32	0.010	0.003	2.90E-03	8.89	0.101	0.003	4.00E-290	1325.08	0.104	0.003	3.10E-221	1008.08
rsl42700143	17	7462657	T	CG	97%	TNFSF12	SHBG female	0.041	0.006	7.60E-14	55.91	0.007	0.008	3.50E-01	0.86	0.087	0.007	6.60E-38	165.65	0.073	0.008	2.90E-20	54.04
rsl43094271	17	7463102	G	A	98%	TNFSF12	SHBG female	0.046	0.006	7.00E-14	56.08	0.007	0.009	4.70E-01	0.53	0.075	0.007	8.60E-24	101.13	0.065	0.009	2.00E-13	85.00
rsl53855978	17	7465735	C	G	98%	TNFSF12	TT male / SHBG male & female	0.065	0.006	5.00E-27	115.92	0.013	0.009	1.30E-01	2.24	0.102	0.007	3.20E-44	194.54	0.109	0.009	7.60E-37	160.78
rsl142832	17	7479215	T	C	41%	CD68	SHBG female	0.025	0.002	1.30E-44	196.29	0.035	0.003	3.80E-02	4.29	0.053	0.002	1.10E-131	600.90	0.033	0.003	1.60E-40	177.56
17_7482288_AAC	17	7482288	AAC	A	97%	-	SHBG female	0.044	0.005	2.40E-16	67.24	-0.001	0.008	9.40E-01	0.01	0.094	0.007	4.80E-46	202.93	0.084	0.008	1.50E-27	118.29
rsl17607	17	7484782	G	A	96%	CD68	SHBG female	0.001	0.004	8.90E-01	0.02	0.009	0.006	1.60E-01	1.97	-0.003	0.005	5.20E-01	0.41	-0.026	0.006	2.30E-05	17.90
rsl12944954	17	7485131	A	G	98%	CD68	SHBG female	0.105	0.006	6.60E-71	316.98	0.027	0.009	1.40E-03	10.26	0.250	0.007	4.60E-266	1214.37	0.268	0.008	8.60E-229	1042.89
rsl18174079	17	7496839	G	A	99%	SOX15	TT male / SHBG male & female	0.039	0.008	1.10E-06	23.69	0.001	0.012	9.00E-01	0.02	0.063	0.010	1.20E-10	41.40	0.077	0.012	4.40E-11	43.42
r9393469	17	7499502	G	A	73%	FXR2	TT female	-0.056	0.002	2.40E-173	787.84	-0.011	0.003	8.40E-05	15.47	-0.109	0.002	1.2E-449	2059.24	-0.083	0.003	4.70E-194	883.07
rsl42331290	17	7502034	A	G	98%	FXR2	TT male / SHBG male	0.046	0.007	6.10E-11	42.80	0.015	0.010	1.30E-01	2.28	0.078	0.008	3.50E-20	84.70	0.094	0.010	2.30E-21	90.06
rsl88889872	17	7511652	C	T	99%	FXR2	TT male / SHBG male & female	-0.062	0.008	1.10E-14	59.79	-0.017	0.011	1.30E-01	2.30	-0.113	0.010	6.60E-31	133.61	-0.091	0.011	3.60E-16	66.42
rsl1078701	17	7523708	C	T	98%	SHBG	SHBG female	0.064	0.007	8.10E-23	96.69	0.033	0.009	4.10E-04	12.50	0.110	0.008	9.60E-44	192.88	0.124	0.009	2.90E-41	181.02
rsl1999941	17	7533423	G	A	75%	SA12	TT male / SHBG male	-0.061	0.002	7.40E-200	909.78	-0.012	0.003	1.40E-05	18.87	-0.124	0.002	1.2E-561	2574.89	-0.096	0.003	2.10E-247	1128.53
rsl727428	17	7537792	T	C	45%	SHBG	SHBG female	-0.049	0.002	3.60E-174	791.62	-0.008	0.003	1.50E-03	10.12	-0.098	0.002	2.7E-463	2122.09	-0.098	0.002	0.00E+00	1569.34
rsl12982019	17	7538182	T	C	96%	SHBG	SHBG female	-0.005	0.005	3.30E-01	0.95	0.004	0.007	5.80E-01	0.30	-0.010	0.006	7.10E-02	3.25	-0.033	0.007	4.90E-07	25.31
r57164414	17	7538323	G	A	97%	SHBG	SHBG female	0.040	0.005	3.50E-17	71.05	0.002	0.007	7.20E-01	0.12	0.060	0.006	1.30E-25	109.39	0.061	0.007	8.30E-19	78.43
rsl72829428	17	7545530	A	G	98%	ATP1B2	TT male / SHBG male	0.026	0.006	3.40E-05	17.20	-0.004	0.009	6.40E-01	0.22	0.051	0.008	3.00E-11	44.18	0.052	0.009	3.60E-09	34.82
rsl72829452	17	7562042	C	T	95%	ATP1B2	SHBG female	0.027	0.004	2.80E-11	44.32	-0.001	0.006	8.80E-01	0.02	0.047	0.005	1.60E-22	95.39	0.054	0.006	1.50E-21	90.95
rsl15757561	17	7568628	G	A	98%	TP53	SHBG male	0.043	0.007	5.00E-09	34.18	0.008	0.011	4.70E-01	0.53	0.055	0.009	8.60E-10	37.62	0.078	0.010	6.30E-14	56.28
rsl7881850	17	7573057	G	A	99%	TP53	TT male / SHBG male	-0.039	0.009	9.00E-06	19.72	-0.027	0.013	3.00E-02	4.71	-0.098	0.011	6.80E-20	83.37	NA	NA	NA	0.00
rsl542792	17	7576151	G	A	99%	TP53	TT male / SHBG male	0.037	0.008	6.70E-06	20.28	0.000	0.012	9.70E-01	0.00	0.077	0.010	1.80E-14	58.77	0.074	0.012	5.70E-10	38.41
rsl542785	17	7579801	C	T	27%	TP53	TT male / SHBG male	-0.039	0.002	3.20E-86	387.29	-0.008	0.003	2.90E-03	8.88	-0.075	0.002	7.60E-218	992.51	-0.085	0.003	8.70E-207	941.65
rsl819175550	17	7595979	C	T	97%	SHBG	SHBG female	-0.032	0.005	2.80E-09	35.31	0.001	0.008	9.40E-01	0.00	-0.042	0.006	7.90E-11	42.28	-0.060	0.007	7.20E-16	65.08
rsl18081933	17	7606211	G	A	98%	EFNB3	SHBG female	-0.017	0.006	3.00E-03	8.78	-0.018	0.008	2.40E-02	5.07	-0.031	0.007	1.10E-05	19.36	-0.031	0.008	1.30E-04	14.66
rsl307626	17	7625296	G	A	68%	DNAH2	SHBG male	0.004	0.002	5.40E-02	7.70	-0.005	0.003	6.30E-02	3.47	0.009	0.002	8.50E-05	15.45	0.010	0.003	3.50E-04	12.76
rsl4152038	17	7647006	C	T	91%	DNAH2	SHBG female	0.009	0.003	2.90E-03	8.88	0.007	0.004	1.20E-01	2.40	0.013	0.004	7.00E-04	11.48	0.026	0.004	1.80E-09	36.19
rsl173807630	17	7651906	C	T	98%	DNAH2	TT male / SHBG male & female	0.067	0.006	4.70E-26	111.45	0.007	0.009	4.60E-01	0.55	0.161	0.008	4.40E-96	432.60	0.162	0.009	9.60E-71	316.22
r62062617	17	7658034	C	T	95%	DNAH2	TT male / SHBG male & female	-0.026	0.004	4.60E-11	43.35	-0.009	0.006	1.10E-01	2.58	-0.049	0.005	1.30E-24	104.93	-0.043	0.006	9.90E-15	59.92
17_7692484_AAA	17	7692484	AAA	A	41%	-	TT male / SHBG male	-0.010	0.002	4.90E-09	34.25	-0.002	0.003	3.90E-01	0.73	-0.018	0.002	1.90E-17	72.25	-0.015	0.002	7.70E-10	37.84
rsl35295135	17	7701525	G	A	79%	DNAH2	SHBG female	0.016	0.005	2.00E-03	9.57	0.000	0.007	9.80E-01	0.00	0.033	0.006	3.20E-07	26.12	0.037	0.007	6.00E-07	24.93
r65903062	17	7713781	G	A	41%	DNAH2	SHBG female	-0.009	0.002	2.50E-07	26.57	-0.004	0.003	1.00E-01	2.66	-0.014	0.002	1.90E-10	40.52	-0.017	0.003	3.00E-11	44.20
rsl88773436	17	7713814	C	T	99%	DNAH2	SHBG female	0.020	0.008	1.00E-02	6.56	0.013	0.011	2.20E-01	1.48	0.046	0.009	1.10E-06	23.67	0.036	0.011	1.10E-03	10.59
r91671971	17	7721231	C	T	74%	DNAH2	SHBG male	0.004	0.002	3.70E-02	4.37	0.003	0.003	3.60E-01	0.84	0.012	0.002	1.10E-06	23.80	0.011	0.003	9.40E-05	15.26
rsl85225460	17	7724159	A	C	98%	DNAH2	SHBG male	-0.026	0.007	1.40E-04	14.56	-0.002	0.010	8.30E-01	0.05	-0.055	0.008	1.50E-11	45.57	-0.053	0.010	3.10E-08	30.67
r4130668	17	7739664	C	T	23%	KDM6B	SHBG male & female	-0.010	0.002	5.90E-07	24.95	-0.008	0.003	4.70E-03	7.99	-0.019	0.002	7.10E-15	60.58	-0.018	0.003	7.00E-10	58.02
rsl75531890	17	7740529	C	T	94%	KDM6B	SHBG female	-0.025	0.004	1.40E-11	45.60	-0.012	0.005	2.70E-02	4.87	-0.052	0.005	1.20E-30	132.46	-0.038	0.005	1.40E-12	30.17
r6162631	17	7759239	C	A	99%	KDM6B	SHBG male	-0.025	0.009	3.40E-03	8.57	0.006	0.012	6.50E-01	0.21	-0.041	0.010	8.00E-05	15.56	-0.015	0.012	2.20E-01	1.49
r57414300	17	7781699	T	TA	81%	NAA38	TT male	-0.008	0.002	3.10E-04	12.98	-0.007	0.003	4.10E-02	4.17	-0.020	0.003	1.30E-13	54.92	-0.008	0.003	1.10E-02	6.48
afk_77497434	17	7871231	TA	A	4%	-	SHBG female	0.006	0.002	1.00E-03	10.77	0.002	0.002	4.60E-01	0.55	0.007	0.002	5.00E-04	12.10	0.017	0.002	9.00E-12	46.53
rsl7312413	17	7929172	C	T	95%	-	SHBG female	-0.023	0.004	3.80E-09	34.73	-0.010	0.006	6.70E-02	3.34	-0.042	0.005	1.60E-18	77.09	-0.029	0.006	1.60E-07	27.41
r4374227	17	794417	C	G	65%	ALOX15B	SHBG female	-0.006	0.002	4.40E-04	12.35	-0.001	0.003	7.20E-01	0.13	-0.014	0.002	7.70E-11	42.32	-0.014	0.003	7.80E-08	28.86
r6503070	17	7948175	C	T	57%	ALOX15B	SHBG female	-0.005	0.002	3.00E-03	8.83	0.000	0.003	9.70E-01	0.00	-0.011	0.002	4.20E-07	25.59	-0.009	0.002	1.90E-04	13.95
rsl7284292	17	7960224	C	T	97%	-	SHBG female	0.020	0.005	9.10E-05	15.31	-0.011	0.007	1.20E-01	2.45	0.042	0.006	5.10E-12	47.63	0.036	0.007	5.70E-07	25.02
r55403148	17	7966861	G	A	97%	ALOXE3P1	SHBG male	0.020	0.005	8.50E-05	15.44	-0.011	0.007	1.10E-01	2.50	0.042	0.006	6.00E-12	47.32	0.034	0.007	9.70E-07	23.99
rsl12934640	17	7969498	T	C	63%	ALOXE3P1	SHBG male	0.005	0.002	5.80E-03	7.62	0.002											

SNP	CHBP	ea	oa	Gene	Trait	G-Y - Male						G-Y - Female													
						FVC			FEV1/FVC			FEV1			FVC			FEV1/FVC			FEV1				
						b	SE	P	b	SE	P	b	SE	P	b	SE	P	b	SE	P	b	SE	P		
r31497406	1	16505320	A	G	43%	-	SHBG male	-0.002	0.002	1.80E-01	0.060	0.019	1.80E-03	0.000	0.001	7.90E-01	-0.004	0.002	6.90E-02	0.022	0.023	3.40E-01	-0.002	0.002	2.40E-01
r315189848	1	25788422	A	G	54%	MACD1	SHBG male	0.004	0.002	1.40E-02	-0.019	0.019	3.30E-01	-0.001	0.001	1.00E-01	0.003	0.002	1.80E-01	0.022	0.023	3.40E-01	0.003	0.002	1.40E-01
r3114165349	1	27021913	G	C	98%	ARD1A	TT male / SHBG male	-0.004	0.005	4.70E-01	-0.020	0.063	7.50E-01	-0.002	0.004	4.50E-01	0.024	0.008	2.60E-03	0.104	0.077	1.80E-01	0.021	0.007	2.00E-03
r375460349	1	27180088	A	C	98%	ZDMHC18	SHBG female	-0.002	0.005	7.30E-01	-0.023	0.063	6.10E-01	-0.002	0.004	6.60E-01	0.024	0.008	3.40E-03	0.127	0.077	1.00E-01	0.022	0.007	1.40E-03
r31768321	1	40035928	G	T	81%	SNORA55	SHBG male	0.004	0.002	6.30E-02	0.133	0.024	2.90E-08	-0.007	0.002	1.10E-05	0.010	0.003	6.20E-04	0.146	0.029	4.00E-07	0.014	0.003	6.40E-08
r311806791	1	61684868	A	C	92%	NFIA	TT male	0.007	0.003	2.60E-02	-0.030	0.036	4.00E-01	0.004	0.002	9.40E-02	0.000	0.005	9.70E-01	-0.041	0.043	3.50E-01	-0.002	0.004	5.50E-01
r359708846	1	61687651	G	A	93%	NFIA	SHBG male	0.006	0.003	3.70E-02	-0.031	0.036	3.80E-01	0.004	0.002	1.30E-01	0.000	0.005	9.70E-01	-0.041	0.043	3.40E-01	-0.003	0.004	5.10E-01
r49499721	1	91530001	C	T	81%	-	SHBG female	-0.002	0.002	4.40E-01	-0.032	0.024	1.80E-01	-0.002	0.002	1.70E-01	-0.001	0.003	7.00E-01	0.002	0.029	9.40E-01	-0.001	0.003	6.20E-01
r310676893	1	92709689	T	TAC	19%	GLMN	TT male	0.000	0.002	9.80E-01	0.171	0.024	7.60E-13	0.005	0.002	1.70E-03	-0.002	0.003	4.90E-01	0.093	0.029	1.30E-03	0.003	0.003	2.30E-01
r36603991	1	93032583	T	C	20%	EVIS	SHBG male	0.000	0.002	8.20E-01	0.148	0.023	2.90E-13	0.005	0.002	2.60E-03	0.000	0.003	8.80E-01	0.078	0.028	5.70E-03	0.004	0.002	1.00E-01
r36684361	1	101737743	T	C	69%	PPIA7	TT female	-0.001	0.002	6.50E-01	-0.015	0.021	4.70E-01	-0.001	0.001	4.90E-01	0.000	0.003	9.90E-01	0.049	0.025	4.80E-02	0.002	0.002	3.30E-01
r312406721	1	107563243	G	T	66%	-	TT male	0.005	0.002	4.60E-03	0.028	0.020	1.60E-01	0.004	0.001	1.30E-03	0.000	0.003	8.60E-01	0.033	0.024	1.80E-01	0.002	0.002	4.30E-01
r31762509	1	107592959	A	G	34%	-	SHBG male	-0.004	0.002	7.10E-03	-0.021	0.020	2.90E-01	-0.004	0.001	3.30E-03	-0.001	0.003	7.30E-01	-0.030	0.024	2.10E-01	-0.002	0.002	3.70E-01
r31730864	1	107607810	C	T	34%	PRMT6	SHBG female	-0.004	0.002	7.40E-03	-0.022	0.020	2.80E-01	-0.004	0.001	3.30E-03	-0.001	0.003	7.30E-01	-0.029	0.024	2.30E-01	-0.002	0.002	3.90E-01
r3140584594	1	110232983	A	G	28%	GSTM1	SHBG male & female	0.001	0.002	6.00E-01	0.023	0.021	2.80E-01	0.001	0.001	3.80E-01	-0.002	0.003	5.00E-01	0.093	0.026	2.70E-04	0.002	0.002	4.00E-01
r3151364	1	113045061	A	T	25%	WNT2B	TT female	0.003	0.002	5.60E-02	-0.014	0.022	5.30E-01	0.002	0.002	1.40E-01	-0.003	0.003	3.10E-01	-0.056	0.026	3.40E-02	-0.005	0.002	5.50E-02
r39427104	1	154589232	C	T	53%	ADAR	SHBG male	-0.001	0.002	4.20E-01	-0.029	0.019	1.20E-01	-0.002	0.001	1.40E-01	-0.001	0.002	6.90E-01	-0.010	0.023	6.60E-01	-0.001	0.002	5.40E-01
r39426827	1	154589965	C	T	53%	ADAR	SHBG female	-0.001	0.002	4.20E-01	-0.030	0.019	1.10E-01	-0.002	0.001	1.30E-01	-0.001	0.002	6.80E-01	-0.011	0.023	6.20E-01	-0.001	0.002	5.00E-01
r32250477	1	179274897	G	C	76%	SOAT1	TT female	-0.006	0.002	7.60E-04	0.021	0.022	3.40E-01	-0.004	0.002	4.20E-02	-0.005	0.003	5.00E-02	-0.016	0.027	5.60E-01	-0.004	0.002	6.10E-02
r34915180	1	196905991	G	C	59%	-	SHBG female	0.005	0.002	2.30E-03	0.024	0.019	2.20E-01	0.001	0.001	1.10E-02	0.004	0.002	1.10E-01	-0.057	0.023	1.50E-02	0.001	0.002	7.80E-02
r31142839	1	204161520	G	GT	75%	KISS1	TT male	-0.002	0.002	2.90E-01	-0.007	0.022	7.40E-01	-0.002	0.002	2.70E-01	-0.003	0.003	3.20E-01	-0.033	0.027	2.20E-01	-0.003	0.002	2.40E-01
r310864086	1	214318748	C	A	26%	LINC02775	SHBG male	0.001	0.002	4.20E-01	-0.023	0.022	2.90E-01	0.000	0.002	8.40E-01	0.003	0.003	2.30E-01	-0.087	0.026	9.70E-04	-0.001	0.002	6.50E-01
r32860075	1	21452015	A	G	37%	LINC02775	SHBG female	0.001	0.002	3.70E-01	-0.048	0.020	1.60E-02	0.000	0.001	7.50E-01	0.005	0.002	5.90E-02	-0.094	0.024	8.30E-05	0.000	0.002	9.60E-01
r32642438	1	220970028	A	G	29%	MTCAC1	SHBG male	0.003	0.002	4.50E-02	0.002	0.021	9.40E-01	0.003	0.001	5.50E-02	-0.004	0.003	1.40E-01	0.046	0.025	6.70E-02	-0.001	0.002	7.50E-01
r31299558	1	12553555	G	A	95%	RNU6-8A3P	TT female	-0.002	0.004	5.60E-01	-0.063	0.043	1.40E-01	-0.003	0.003	3.30E-01	-0.005	0.005	3.40E-01	-0.016	0.052	7.60E-01	-0.005	0.005	3.20E-01
r376527790	1	27055853	A	G	89%	-	SHBG male	-0.001	0.003	8.00E-01	-0.006	0.031	8.40E-01	0.000	0.002	9.90E-01	-0.007	0.004	8.90E-02	-0.043	0.037	2.40E-01	-0.007	0.003	4.00E-02
r313032431	1	27301404	G	T	95%	EMILUN1	SHBG male & female	0.000	0.004	9.10E-01	0.008	0.044	8.60E-01	0.000	0.003	9.20E-01	0.006	0.005	2.70E-01	0.109	0.053	4.00E-02	0.009	0.005	5.40E-02
r36547456	1	27393382	T	C	94%	-	SHBG female	0.003	0.003	4.50E-01	0.036	0.041	3.80E-01	0.003	0.003	3.00E-01	0.003	0.005	5.70E-01	0.158	0.050	1.60E-03	0.008	0.004	7.80E-02
r3557800810	1	27416517	A	G	6%	-	TT male	-0.006	0.003	5.20E-02	0.010	0.040	8.00E-01	-0.003	0.001	1.20E-01	-0.001	0.005	8.70E-01	-0.129	0.049	8.20E-03	-0.006	0.004	1.90E-01
r3115961201	2	27704896	G	A	96%	IFT172	SHBG male	-0.003	0.004	5.20E-01	0.017	0.051	7.40E-01	-0.002	0.004	6.20E-01	-0.004	0.006	5.20E-01	0.165	0.062	7.50E-03	0.003	0.005	5.40E-02
r377163241	2	27709510	A	G	98%	IFT172	SHBG male	-0.002	0.005	6.80E-01	0.060	0.060	3.20E-01	-0.000	0.004	9.30E-01	-0.014	0.008	6.20E-02	-0.052	0.073	4.80E-01	-0.011	0.007	8.80E-02
r31260326	2	27730940	T	C	39%	GOKR	TT male & female / SHBG male & female	0.001	0.002	4.10E-01	0.019	0.019	3.30E-01	0.002	0.001	2.30E-01	0.004	0.002	1.40E-01	0.037	0.023	1.10E-01	0.004	0.002	3.90E-02
r362131877	2	27740328	C	T	95%	GOKR	SHBG male	0.003	0.004	7.10E-01	0.056	0.043	3.90E-01	0.004	0.003	1.70E-01	0.002	0.005	6.90E-01	0.161	0.052	2.00E-03	0.008	0.005	9.90E-02
r31969131	2	28341375	C	T	83%	BABAM2	SHBG male	0.001	0.002	5.10E-01	0.025	0.026	3.40E-01	0.002	0.002	3.60E-01	0.002	0.003	5.60E-01	0.071	0.032	2.40E-02	0.005	0.003	8.40E-02
r37775907	2	31609942	G	A	96%	XDH	SHBG male	-0.004	0.004	6.60E-01	0.069	0.052	1.80E-01	-0.001	0.004	8.30E-01	-0.002	0.006	7.10E-01	0.001	0.062	9.80E-01	-0.001	0.006	7.90E-01
r3113017476	2	31989359	G	A	96%	-	TT male	-0.007	0.004	3.10E-02	0.063	0.049	2.00E-01	-0.003	0.003	3.60E-01	-0.002	0.006	7.00E-01	-0.008	0.060	8.90E-01	-0.002	0.005	7.50E-01
r362142079	2	32178752	C	T	56%	MEMO1	TT male	-0.001	0.002	9.60E-01	-0.009	0.019	6.20E-01	-0.001	0.001	3.40E-01	-0.001	0.002	7.70E-01	0.021	0.023	3.50E-01	0.001	0.002	4.60E-01
r372787535	2	32873774	C	T	96%	TTC27	SHBG male	-0.007	0.004	8.20E-02	0.066	0.050	1.80E-01	-0.004	0.003	2.90E-01	-0.001	0.006	9.00E-01	0.110	0.061	7.00E-02	0.005	0.005	4.00E-01
2.33038262_TTT	2	33038262	TTAT	T	96%	-	TT male	-0.009	0.004	2.90E-02	0.062	0.052	2.30E-01	-0.006	0.004	1.10E-01	0.004	0.007	5.80E-01	0.117	0.064	6.80E-02	0.007	0.006	2.00E-01
r36736913	2	42510018	A	G	2%	EML4	SHBG male	-0.009	0.005	1.10E-01	-0.092	0.066	1.60E-01	-0.010	0.005	3.00E-02	-0.007	0.008	3.70E-01	-0.131	0.080	1.00E-01	-0.013	0.007	7.00E-02
r37599564	2	43509617	A	G	39%	THADA	TT female	-0.001	0.002	4.90E-01	-0.011	0.019	5.60E-01	-0.001	0.001	4.70E-01	-0.003	0.002	2.20E-01	0.033	0.024	1.60E-01	-0.001	0.002	7.00E-02
r310165929	2	64902288	A	C	26%	SERTAD2	SHBG female	0.003	0.002	8.40E-02	0.002	0.022	9.10E-01	0.002	0.002	1.10E-01	0.000	0.003	8.60E-01	-0.001	0.026	9.80E-01	0.000	0.002	1.00E-01
r36546096	2	64906295	A	G	26%	SERTAD2	SHBG male	0.003	0.002	1.10E-01	0.011	0.022	6.10E-01	0.003	0.001	8.80E-02	-0.001	0.003	7.30E-01	0.000	0.026	9.90E-01	0.000	0.002	8.00E-01
r358088484	2	70438552	G	GT	93%	TIA1	SHBG female	0.013	0.003	8.30E-05	-0.073	0.039	6.20E-02	0.008	0.003	4.60E-03	0.009	0.005	6.30E-02	-0.020	0.047	6.70E-01	0.006	0.004	1.20E-01
r372904362	2	70537712	C	A	93%	-	SHBG male	0.011	0.003	4.10E-04	-0.064	0.038	9.20E-02	0.007	0.003	1.00E-02	0.008	0.005	9.50E-02	-0.007	0.046	8.80E			

r1933801	6	105365725	C	T	32%	LN288-A51	TT male	-0.006	0.002	1.50E-04	0.017	0.020	4.00E-01	-0.004	0.001	2.30E-03	-0.006	0.003	2.70E-02	-0.014	0.025	5.70E-01	-0.005	0.002	1.90E-02	
r193388	6	11917866	T	C	22%	MC9M	TT female	-0.002	0.002	2.10E-01	-0.037	0.023	1.00E-01	-0.003	0.002	7.40E-02	-0.003	0.003	3.60E-01	0.030	0.028	2.80E-01	0.000	0.002	9.20E-01	
r13220350	6	12718280	C	A	58%	-	TT female	0.001	0.002	3.80E-01	0.085	0.019	1.20E-05	0.001	4.80E-03	0.001	4.80E-03	-0.002	0.002	5.00E-01	0.072	0.023	2.10E-03	0.002	0.002	3.30E-01
r9399469	6	144318529	T	A	38%	PLA6L1	TT female	0.004	0.002	7.70E-03	-0.014	0.020	4.70E-01	0.003	0.001	5.80E-02	0.005	0.002	4.20E-02	0.036	0.024	1.30E-01	0.005	0.002	1.10E-02	
r34841782	6	160770512	G	GT	53%	SLC22A3	SHBG female	0.000	0.002	9.20E-01	0.052	0.019	6.20E-03	0.001	0.001	2.00E-01	0.007	0.002	1.90E-03	0.056	0.023	1.60E-02	0.008	0.002	1.70E-04	
r506823	6	160771465	C	A	53%	SLC22A3	SHBG male	0.000	0.002	8.80E-01	0.053	0.019	5.50E-03	0.001	0.001	3.00E-01	0.007	0.002	3.40E-03	0.056	0.023	1.50E-02	0.007	0.002	3.20E-04	
r9986829	7	15019259	G	A	49%	DOGK	TT male	-0.001	0.002	3.40E-01	-0.016	0.019	4.10E-01	-0.002	0.001	2.00E-01	-0.002	0.002	5.20E-01	-0.031	0.023	1.80E-01	-0.002	0.002	2.50E-01	
r849135	7	28196413	G	A	51%	JAZF1	SHBG male	-0.008	0.002	9.90E-07	0.000	0.019	9.80E-01	-0.006	0.001	9.50E-06	-0.015	0.002	4.00E-10	-0.026	0.023	2.50E-01	-0.012	0.002	1.10E-09	
r34006476	7	73037956	A	G	87%	MDXPL	TT female	-0.006	0.002	5.20E-03	-0.048	0.028	8.40E-02	-0.007	0.002	6.30E-04	-0.001	0.004	7.30E-01	0.011	0.034	7.50E-01	0.000	0.003	9.20E-01	
r13229492	7	81564122	T	C	27%	-	SHBG male	-0.004	0.002	1.30E-02	-0.018	0.022	4.10E-01	-0.004	0.001	1.20E-02	-0.003	0.003	2.70E-01	-0.007	0.026	7.80E-01	-0.003	0.002	2.40E-01	
r445	7	92408370	T	C	90%	CDKG	SHBG male	-0.001	0.003	6.50E-01	-0.083	0.022	1.00E-02	-0.004	0.002	8.20E-02	0.003	0.004	4.40E-01	-0.061	0.039	1.20E-01	-0.001	0.003	8.10E-01	
r6950023	7	97915635	T	G	19%	BR3	SHBG male	-0.002	0.002	3.00E-01	-0.008	0.025	7.40E-01	-0.002	0.002	3.00E-01	-0.003	0.003	3.20E-01	0.028	0.029	3.40E-01	-0.001	0.003	7.20E-01	
r147098434	7	97917357	T	G	99%	BAIAP2L1	TT male	-0.011	0.008	1.50E-01	0.026	0.093	7.80E-01	-0.009	0.006	1.40E-01	-0.011	0.012	3.40E-01	-0.141	0.112	2.10E-01	-0.014	0.01	1.70E-01	
r5888662	7	97942070	C	CTG	19%	BAIAP2L1	SHBG female	-0.002	0.002	1.80E-01	-0.009	0.025	7.20E-01	-0.002	0.002	2.80E-01	-0.003	0.003	3.20E-01	0.031	0.030	3.00E-01	-0.001	0.003	7.50E-01	
r13635612	7	98015049	G	T	19%	BAIAP2L1	TT male	-0.002	0.002	3.20E-01	-0.010	0.024	6.70E-01	-0.002	0.002	2.90E-01	-0.002	0.003	4.20E-01	0.031	0.029	3.00E-01	0.000	0.003	8.90E-01	
r76083622	7	98814780	G	A	98%	KPNA7	TT female	-0.009	0.006	1.30E-01	0.172	0.075	2.20E-02	-0.001	0.005	8.20E-01	-0.023	0.010	1.80E-02	0.151	0.092	1.00E-01	-0.012	0.008	1.30E-01	
r116928828	7	98831324	G	A	98%	KPNA7	TT female	-0.013	0.003	1.50E-02	-0.179	0.064	5.10E-03	-0.014	0.004	1.30E-03	-0.001	0.008	9.40E-01	-0.033	0.077	6.70E-01	-0.002	0.007	7.50E-01	
r110232076	7	98948904	C	T	90%	ARPC1A	TT female	-0.005	0.005	1.10E-01	0.073	0.035	3.80E-02	-0.001	0.002	6.40E-01	-0.006	0.004	1.40E-01	0.126	0.042	2.80E-03	0.000	0.004	9.80E-01	
r45446698	7	99332948	T	G	96%	CYP3A7	TT female	-0.006	0.004	1.50E-01	0.019	0.047	6.80E-01	-0.004	0.003	2.30E-01	-0.012	0.006	4.30E-02	-0.134	0.057	1.90E-02	-0.014	0.005	5.90E-03	
r13328380	7	99629061	C	T	63%	ZKSCAN1	TT female	0.003	0.002	4.80E-02	-0.117	0.020	3.00E-09	-0.001	0.001	3.40E-01	0.002	0.002	5.10E-02	-0.163	0.024	7.40E-12	-0.006	0.002	7.40E-03	
r7778751	7	99664817	A	G	76%	ZSCAN21	TT female	-0.002	0.002	2.20E-01	-0.002	0.022	9.20E-01	-0.002	0.002	2.80E-01	-0.003	0.003	3.20E-01	-0.040	0.027	1.40E-01	-0.004	0.002	1.10E-01	
r140600498	7	99740363	A	G	99%	-	TT female	-0.011	0.008	1.30E-01	-0.040	0.022	6.70E-01	-0.010	0.006	1.20E-01	-0.023	0.012	4.40E-02	-0.144	0.112	2.00E-01	-0.021	0.01	3.20E-02	
r11739142	7	100282707	A	G	97%	GIGYF1	TT female	-0.009	0.005	4.60E-02	-0.018	0.057	7.60E-01	-0.009	0.004	2.90E-02	0.014	0.007	5.80E-02	-0.022	0.069	7.50E-01	0.010	0.006	1.20E-01	
r13245899	7	100497131	A	G	81%	ACHE	SHBG female	-0.005	0.002	2.00E-02	0.091	0.024	1.60E-04	-0.001	0.002	7.00E-01	-0.006	0.003	3.80E-02	0.023	0.029	4.20E-01	-0.004	0.003	1.50E-01	
r13226864	7	100499315	A	G	82%	ACHE	SHBG male	-0.006	0.002	5.50E-03	0.092	0.024	1.80E-04	-0.001	0.002	4.20E-01	-0.007	0.003	3.40E-02	0.033	0.030	2.60E-01	0.003	0.003	2.00E-02	
r35225944	7	101831484	T	TA	67%	CLX1	SHBG male	0.005	0.002	5.40E-03	-0.046	0.020	2.20E-02	0.002	0.001	1.60E-01	0.007	0.003	3.90E-03	-0.015	0.024	5.50E-01	0.005	0.002	3.50E-01	
r157935	7	13058553	T	G	20%	UNC-PINT	SHBG male	0.000	0.002	8.20E-01	-0.004	0.021	8.60E-01	-0.001	0.001	9.00E-01	0.001	0.003	7.30E-01	0.031	0.025	2.10E-01	0.002	0.002	2.70E-01	
r1303826	7	13779747	A	T	21%	AKR1D1	TT female	-0.004	0.002	4.60E-02	-0.052	0.023	2.70E-02	-0.004	0.002	6.40E-03	-0.001	0.003	7.60E-01	-0.034	0.028	2.40E-01	-0.002	0.003	5.40E-01	
r13473269	7	14309269	G	A	95%	EPHA1	SHBG male	-0.001	0.004	8.60E-01	-0.060	0.043	1.60E-01	-0.003	0.003	3.90E-01	-0.003	0.005	5.40E-01	-0.181	0.052	4.70E-04	-0.011	0.005	1.90E-02	
7150502468_AT	7	150502468	AT	A	89%	SHBG	SHBG male	0.008	0.002	1.80E-03	0.040	0.030	1.90E-01	0.007	0.002	1.10E-03	0.001	0.004	7.30E-01	0.008	0.037	8.30E-01	0.001	0.003	7.00E-01	
r9987389	8	9183358	A	G	9%	PPP1R3B-DT	SHBG female	0.007	0.003	1.30E-02	-0.098	0.033	2.90E-03	0.002	0.002	3.90E-01	0.008	0.004	5.60E-02	-0.117	0.040	3.40E-03	0.000	0.004	9.80E-01	
r21226259	8	9185146	T	C	10%	PPP1R3B-DT	SHBG male	0.006	0.003	1.60E-02	-0.098	0.031	1.90E-03	0.002	0.002	4.80E-01	0.007	0.004	6.70E-02	-0.097	0.038	1.10E-02	0.000	0.003	8.50E-01	
r57728375	8	42332640	C	CT	65%	SLC20A2	SHBG female	0.000	0.002	8.80E-01	0.028	0.020	1.60E-01	0.001	0.001	6.90E-01	-0.004	0.003	1.60E-01	0.046	0.024	5.90E-02	0.000	0.002	8.90E-01	
r4738884	8	5939273	A	G	33%	-	SHBG male	0.002	0.002	2.70E-01	0.066	0.020	1.10E-03	0.001	0.001	1.40E-02	0.002	0.003	3.60E-01	0.027	0.024	2.60E-01	0.003	0.002	1.70E-01	
r13269725	8	72458889	A	G	92%	EYA1	SHBG male	0.007	0.003	1.70E-02	-0.003	0.035	9.20E-01	0.005	0.002	5.10E-02	0.001	0.004	9.00E-01	0.018	0.043	6.80E-01	0.001	0.004	8.80E-01	
r4445199	8	77888084	C	T	74%	PEX2	TT male	-0.001	0.002	7.60E-01	-0.026	0.022	2.30E-01	-0.001	0.002	4.70E-01	0.006	0.003	2.40E-02	0.009	0.026	7.40E-01	0.005	0.002	3.80E-02	
r11994858	8	81273210	A	G	35%	-	SHBG male	-0.006	0.002	3.30E-01	-0.011	0.020	5.70E-01	-0.005	0.001	7.80E-04	-0.005	0.003	3.30E-02	-0.001	0.024	9.80E-01	-0.004	0.002	7.00E-02	
r74856638	8	81323554	C	T	94%	-	SHBG female	0.001	0.003	6.60E-01	0.023	0.040	5.60E-01	0.002	0.003	3.80E-01	0.004	0.005	4.40E-01	-0.050	0.049	3.00E-01	0.000	0.003	9.30E-01	
r150539196	8	81399180	A	G	97%	ZBTB10	SHBG male	-0.001	0.004	7.30E-01	0.105	0.053	4.70E-02	-0.002	0.004	5.30E-01	0.002	0.007	7.20E-01	-0.001	0.064	9.90E-01	0.002	0.006	7.80E-01	
8.81430449_AT_8	8	81430449	AT	A	90%	SHBG	SHBG female	-0.001	0.003	7.00E-01	-0.004	0.032	9.00E-01	-0.001	0.002	7.80E-01	-0.002	0.004	6.40E-01	0.025	0.039	5.20E-01	0.000	0.003	9.50E-01	
8.81457499_CA_8	8	81457499	CA	C	78%	SHBG	SHBG male & female	-0.001	0.002	6.60E-01	0.048	0.024	9.00E-01	-0.001	0.002	7.00E-01	0.000	0.003	9.40E-01	0.024	0.028	4.00E-01	0.000	0.003	8.50E-01	
r19607816	8	81465147	A	C	92%	-	SHBG female	-0.002	0.003	5.30E-01	0.068	0.036	5.70E-01	0.000	0.002	9.90E-01	-0.001	0.005	7.80E-01	-0.002	0.044	9.60E-01	-0.002	0.004	6.90E-01	
r6969654	8	81582148	C	T	10%	ZNF704	SHBG female	0.000	0.003	1.00E+00	-0.002	0.031	9.60E-01	0.000	0.002	8.70E-01	-0.001	0.004	7.70E-01	-0.026	0.037	4.90E-01	-0.002	0.003	6.00E-01	
r34955534	8	81710349	A	G	90%	ZNF704	SHBG male	0.003	0.003	3.30E-01	0.014	0.033	6.80E-01	0.003	0.002	2.10E-01	0.002	0.004	5.90E-01	0.059	0.040	1.30E-01	0.004	0.004	2.70E-01	
r37800970	8	81869319	A	G	95%	-	SHBG female	0.004	0.004	3.30E-01	-0.056	0.045	2.10E-01	0.001	0.006	9.40E-01	0.002	0.006	9.40E-01	-0.108	0.055	4.80E-02	-0.004	0.005	4.00E-01	
r35783704	8	105966258	G	A	90%	ZFPM2	TT female	0.003	0.003	2.00E-01	-0.002	0.032	9.60E-01	0.002	0.002	2.60E-01	-0.004	0.004	2.70E-01	-0.014	0.039	7.20E-01	-0.004	0.003	3.20E-01	
r44876																										

r10766078	11	13363248	A	G	34%	BMALL	SHBG female	0.000	0.002	7.70E-01	-0.029	0.020	1.50E-01	-0.001	0.001	3.00E-01	0.000	0.003	9.70E-01	-0.077	0.024	1.50E-03	-0.004	0.002	9.80E-02
r778571122	11	16247860	TTGT	G	61%	SOM6	SHBG male & female	0.005	0.002	4.10E-03	0.003	0.020	8.80E-01	0.003	0.001	1.00E-02	0.003	0.002	1.90E-01	-0.039	0.024	9.60E-02	0.001	0.002	6.30E-01
r1574554	11	61579463	A	G	66%	FAD52	SHBG female	-0.001	0.002	3.90E-01	0.039	0.020	5.00E-02	0.000	0.001	9.80E-01	-0.003	0.003	2.20E-01	0.017	0.024	4.90E-01	-0.001	0.002	5.00E-01
r131217275	11	62905115	T	C	94%	SIC2A2A	TT female	-0.003	0.003	2.80E-01	-0.013	0.038	7.30E-01	-0.007	0.003	2.80E-01	-0.007	0.005	1.70E-01	0.040	0.046	3.90E-01	0.003	0.004	4.60E-01
r146079754	11	64297912	C	T	99%	-	TT female	0.012	0.008	1.30E-01	-0.060	0.095	5.30E-01	-0.007	0.007	2.80E-01	0.004	0.041	0.712E-02	0.154	0.116	1.80E-01	0.010	0.011	3.20E-01
r12105608	11	65228618	T	A	67%	-	SHBG female	0.000	0.002	8.10E-01	-0.020	0.020	3.20E-01	-0.001	0.001	4.50E-01	0.001	0.003	7.40E-01	-0.019	0.025	4.40E-01	0.000	0.002	8.70E-01
r12197706	11	65561369	G	A	76%	OVOLL	SHBG male & female	0.004	0.002	5.30E-02	-0.069	0.023	2.20E-03	0.000	0.002	7.00E-01	0.002	0.003	4.00E-01	-0.049	0.027	7.30E-02	-0.001	0.002	7.30E-01
r13121023	11	68097049	G	A	47%	LRP5	TT female	-0.002	0.002	2.10E-01	0.001	0.019	9.70E-01	-0.001	0.001	2.30E-01	-0.003	0.002	2.30E-01	0.012	0.023	6.00E-01	0.000	0.002	2.30E-01
r13884627	11	69025799	T	G	31%	-	SHBG male	0.002	0.002	2.40E-01	0.008	0.021	6.90E-01	0.002	0.001	3.00E-01	0.005	0.003	4.70E-02	0.023	0.025	3.50E-01	0.005	0.002	2.20E-02
r122280075	11	69170389	T	G	67%	-	SHBG male	-0.001	0.002	5.00E-01	-0.022	0.020	2.90E-01	-0.001	0.001	3.40E-01	-0.002	0.003	4.60E-01	-0.008	0.025	7.40E-01	-0.002	0.002	4.50E-01
r129321198	11	69175126	G	A	96%	-	SHBG male	-0.004	0.004	3.00E-01	-0.049	0.045	2.80E-01	-0.005	0.003	1.40E-01	-0.011	0.006	5.20E-02	0.000	0.055	1.00E-00	-0.008	0.005	1.10E-01
r134817958	11	69288255	G	A	77%	-	SHBG female	0.001	0.002	6.60E-01	0.003	0.023	9.00E-01	0.000	0.002	8.00E-01	0.002	0.003	5.00E-01	0.017	0.027	5.30E-01	0.002	0.002	4.30E-01
r13631695	11	69283303	T	G	42%	-	SHBG male	0.003	0.002	6.00E-02	0.036	0.019	6.10E-02	0.003	0.001	9.10E-03	0.002	0.002	5.20E-01	0.006	0.023	7.90E-01	0.002	0.002	4.30E-01
r14269607	11	72294440	G	A	70%	PDE2A	TT female	0.006	0.002	8.60E-04	-0.050	0.021	1.50E-02	0.003	0.001	6.20E-02	-0.004	0.003	1.70E-01	-0.054	0.025	3.10E-02	-0.005	0.002	2.30E-02
r112575636	11	95311260	T	G	81%	-	SHBG female	0.002	0.002	3.50E-01	-0.022	0.024	3.80E-01	0.001	0.002	5.70E-01	-0.005	0.003	1.30E-01	-0.048	0.029	1.00E-01	-0.005	0.003	6.00E-02
r10791570	11	102125714	G	A	67%	-	SHBG male	0.000	0.002	8.40E-01	0.028	0.020	1.70E-01	0.000	0.001	7.50E-01	-0.003	0.003	3.00E-01	0.036	0.025	1.40E-01	-0.000	0.002	8.00E-02
r1850294	11	123437669	C	T	89%	GRAMD1B	TT female	-0.008	0.002	2.20E-03	-0.005	0.030	8.60E-01	-0.006	0.002	4.40E-03	0.002	0.004	6.40E-01	0.035	0.037	3.40E-01	0.003	0.003	3.80E-01
r156196860	12	2908330	C	A	97%	FKBP4	TT male	0.027	0.005	2.60E-09	-0.033	0.055	5.40E-01	-0.020	0.004	1.50E-09	0.026	0.007	1.70E-04	0.076	0.066	2.50E-01	0.022	0.006	2.00E-01
r12928820	12	20581339	A	T	80%	PDE3A	SHBG female	-0.004	0.002	5.90E-01	-0.057	0.024	1.60E-02	-0.002	0.002	1.30E-01	-0.007	0.003	1.60E-02	-0.083	0.029	3.60E-03	-0.010	0.003	1.60E-04
r135643911	12	20942031	A	AT	94%	-	SHBG male	0.004	0.003	1.90E-01	-0.005	0.041	9.00E-01	0.003	0.003	2.70E-01	0.000	0.005	9.50E-01	-0.088	0.049	7.30E-02	0.003	0.004	5.00E-01
r10841648	12	20954557	C	A	35%	-	SHBG male	-0.002	0.002	2.10E-01	-0.013	0.020	5.10E-01	-0.002	0.001	1.10E-01	-0.001	0.003	6.90E-01	0.018	0.024	4.60E-01	0.000	0.002	8.50E-01
r10841753	12	21321370	T	C	81%	SICD1B1	SHBG male	0.001	0.002	7.30E-01	-0.041	0.024	9.60E-02	-0.001	0.002	6.20E-01	0.002	0.003	4.30E-01	0.056	0.029	5.60E-02	0.004	0.003	1.20E-01
r14149056	12	21331549	T	C	85%	SICD1B1	TT male / SHBG male	0.000	0.002	9.70E-01	0.013	0.027	6.20E-01	0.000	0.002	7.90E-01	0.008	0.003	1.70E-02	0.020	0.032	5.20E-01	0.007	0.003	1.40E-02
r11045833	12	21340507	G	A	79%	SICD1B1	TT male	0.001	0.002	5.70E-01	-0.031	0.023	1.80E-01	0.000	0.002	8.80E-01	0.000	0.003	9.60E-01	0.041	0.028	1.50E-01	0.002	0.003	4.60E-01
r167981690	12	21343886	A	G	87%	SICD1B1	SHBG female	0.000	0.002	9.90E-01	0.006	0.029	8.50E-01	0.000	0.002	8.60E-01	0.007	0.004	4.70E-02	0.019	0.034	5.80E-01	0.006	0.003	3.50E-02
r10841772	12	21407368	A	G	75%	-	SHBG female	0.001	0.002	4.10E-01	-0.036	0.022	1.00E-01	0.000	0.002	9.50E-01	0.002	0.003	4.00E-01	0.003	0.027	9.10E-01	-0.001	0.002	5.30E-01
r112704675	12	21498926	T	C	92%	SICD1A2	SHBG male	0.002	0.003	5.70E-01	0.061	0.034	7.60E-02	0.003	0.002	2.30E-01	0.005	0.004	2.20E-01	0.073	0.042	8.00E-02	0.007	0.004	5.10E-02
r112319043	12	24233568	A	G	96%	SOXS	SHBG female	0.001	0.004	7.70E-01	-0.039	0.048	4.10E-01	0.000	0.003	9.00E-01	-0.011	0.006	6.50E-02	-0.068	0.058	2.40E-01	-0.010	0.005	5.40E-02
r16756995	12	25409070	T	C	93%	-	SHBG male	-0.001	0.003	7.00E-01	0.050	0.037	1.70E-01	0.001	0.003	7.60E-01	0.008	0.005	8.30E-02	0.038	0.045	4.00E-01	0.007	0.004	6.60E-02
r175130744	12	25411071	G	C	93%	-	SHBG female	-0.001	0.003	8.40E-01	0.045	0.037	2.30E-01	0.001	0.003	6.80E-01	0.008	0.005	8.70E-02	0.032	0.045	4.80E-01	0.007	0.004	7.40E-02
r14073773	12	51144432	T	C	42%	DIP2B	SHBG female	0.004	0.002	1.20E-02	-0.002	0.019	9.30E-01	0.003	0.001	1.90E-02	0.009	0.002	1.30E-04	0.051	0.023	2.80E-02	0.009	0.002	9.60E-06
r197974833	12	57791833	T	C	77%	R3HDM2	TT male	0.001	0.002	4.90E-01	-0.053	0.022	1.90E-02	-0.001	0.002	5.90E-01	0.001	0.003	6.40E-01	0.015	0.027	5.80E-01	0.002	0.002	3.70E-01
r11614506	12	57815675	T	C	78%	R3HDM2	SHBG female	0.001	0.002	4.50E-01	-0.044	0.023	5.10E-02	0.000	0.002	7.00E-01	0.002	0.003	4.40E-01	0.019	0.027	5.00E-01	0.002	0.002	2.40E-01
r16152607	12	57839173	G	T	77%	INH3B	SHBG male	0.002	0.002	5.20E-01	-0.049	0.022	2.70E-01	-0.001	0.002	6.10E-01	0.002	0.003	4.60E-01	0.027	0.027	3.10E-01	0.003	0.002	1.90E-01
r11110363	12	10078398	G	C	57%	SIC17A8	SHBG female	0.001	0.002	1.80E-01	-0.002	0.019	9.20E-01	0.002	0.001	2.00E-01	0.000	0.002	9.30E-01	-0.039	0.023	9.50E-02	-0.002	0.002	2.30E-01
r1371515050	12	10101565	G	T	99%	GAS2L3	SHBG male	-0.001	0.008	8.80E-01	-0.112	0.093	2.30E-01	-0.004	0.006	5.70E-01	0.018	0.012	1.30E-01	-0.126	0.115	2.70E-01	0.007	0.011	5.10E-01
r1141556543	12	10111328	C	T	99%	ANO4	SHBG female	-0.006	0.008	4.10E-01	-0.104	0.095	2.80E-01	-0.008	0.002	2.30E-01	0.017	0.012	1.50E-01	-0.043	0.117	7.10E-01	0.010	0.011	3.50E-01
r10778174	12	10283896	A	G	25%	IGF1	SHBG female	0.008	0.002	2.70E-06	-0.012	0.022	6.00E-01	0.006	0.002	3.80E-05	0.010	0.003	2.10E-04	-0.019	0.026	4.80E-01	0.007	0.002	2.40E-01
r14764939	12	103522952	C	T	52%	-	SHBG female	0.000	0.002	9.70E-01	-0.051	0.019	7.30E-03	-0.001	0.001	2.90E-01	0.004	0.002	7.70E-02	0.004	0.023	3.80E-01	0.003	0.002	1.20E-01
r11830764	12	111515020	G	C	92%	CUK2	SHBG male & female	-0.004	0.003	2.60E-01	-0.102	0.038	7.20E-03	-0.006	0.003	1.60E-02	0.003	0.005	5.70E-01	0.000	0.046	1.00E-00	0.003	0.004	5.20E-01
12-121405326_G	12	121405326	ICAGJ	G	52%	-	SHBG female	0.003	0.002	1.10E-01	0.011	0.019	8.50E-01	0.002	0.001	7.90E-02	0.000	0.002	7.90E-01	-0.024	0.023	3.00E-01	-0.001	0.002	5.40E-01
r1800574	12	12141864	C	T	97%	HNF1A	SHBG male	-0.018	0.005	1.40E-04	0.086	0.056	1.30E-01	-0.011	0.004	6.10E-03	-0.025	0.007	3.30E-04	0.026	0.068	7.00E-01	-0.017	0.006	5.10E-01
r17979473	12	121420260	A	G	39%	HNF1A	TT male / SHBG male	0.003	0.002	5.40E-02	-0.014	0.020	4.70E-01	0.002	0.001	1.60E-01	0.001	0.002	6.40E-01	-0.021	0.024	3.70E-01	0.002	0.002	9.20E-01
r1716407	12	124515218	G	A	41%	RFLNA	SHBG female	0.000	0.002	9.80E-01	-0.003	0.019	8.90E-01	0.000	0.001	9.00E-01	0.002	0.002	5.30E-01	-0.023	0.023	3.20E-01	0.000	0.002	9.90E-01
r16486542	12	130952209	C	T	57%	RIMBP2	TT male	0.000	0.002	9.60E-01	-0.047	0.019	1.50E-02	-0.001	0.001	8.00E-01	0.000	0.002	8.80E-01	-0.039	0.023	9.60E-02	0.002	0.002	3.20E-01
r19506725	12	22314146	T	C	64%	-	TT female	0.002	0.002	2.30E-01	0.009	0.020	6.30E-01	0.002	0.001	2.20E-01	0.004	0.002	9.20E-02	-0.017	0.024	4.80E-01	0.00		

r62059800	17	7448573	G	A	89%	TNFSF12	SHBG male	0.016	0.002	4.60E-11	0.052	0.030	8.00E-02	0.014	0.002	3.60E-11	0.005	0.004	1.80E-01	0.030	0.036	4.10E-01	0.005	0.003	1.20E-01
r12602989	17	7456489	C	T	83%	TNFSF12	TT male / SHBG male	-0.004	0.002	3.50E-02	-0.030	0.025	2.30E-01	-0.004	0.002	2.60E-02	0.005	0.003	1.20E-01	-0.075	0.030	1.40E-02	0.000	0.003	9.70E-01
r142700143	17	7462657	T	GT	97%	TNFSF12	SHBG female	-0.004	0.005	3.80E-01	-0.034	0.062	5.80E-01	-0.004	0.004	3.70E-01	0.023	0.008	3.00E-03	-0.055	0.074	4.60E-01	0.015	0.007	2.10E-02
r143094271	17	7463102	G	A	98%	TNFSF12	SHBG female	-0.015	0.005	8.20E-03	0.022	0.067	7.40E-01	-0.010	0.005	8.90E-02	-0.024	0.008	7.00E-03	-0.010	0.079	9.00E-01	-0.017	0.007	1.80E-02
r183835978	17	7465735	G	C	98%	TNFSF12	TT male / SHBG male & female	-0.002	0.005	7.10E-01	0.041	0.065	5.30E-01	-0.001	0.005	2.40E-01	0.022	0.008	2.90E-03	0.056	0.078	4.80E-01	0.020	0.007	4.20E-02
r1124382	17	7479215	T	C	41%	CD68	SHBG female	0.004	0.002	1.00E-02	-0.045	0.019	2.10E-02	-0.001	0.001	3.10E-01	-0.002	0.002	4.00E-01	-0.035	0.023	1.30E-01	-0.003	0.002	1.80E-01
177482288_AAC	17	7482288	AAC	A	97%		SHBG female	-0.005	0.005	2.60E-01	0.016	0.058	7.80E-01	-0.003	0.004	4.10E-01	-0.003	0.007	6.60E-01	-0.051	0.071	4.70E-01	-0.006	0.006	3.20E-01
r117607	17	7484872	G	A	96%	CD68	SHBG female	-0.013	0.004	2.00E-03	-0.016	0.046	7.30E-01	-0.010	0.003	2.60E-03	-0.014	0.006	1.80E-02	-0.023	0.055	6.70E-01	-0.010	0.005	3.40E-02
r112044954	17	7485131	A	G	98%	CD68	SHBG female	-0.003	0.005	5.70E-01	-0.036	0.063	5.70E-01	-0.002	0.004	6.10E-01	-0.003	0.008	3.70E-01	-0.073	0.076	3.30E-01	-0.004	0.007	5.10E-01
r118174079	17	7496689	G	A	99%	SOK15	TT male / SHBG male & female	-0.003	0.007	6.50E-01	0.094	0.090	3.00E-01	0.000	0.006	9.70E-01	-0.016	0.011	1.40E-01	-0.230	0.108	3.40E-02	-0.021	0.01	2.90E-02
r3933469	17	7499502	G	A	73%	FXR2	TT female	-0.002	0.002	1.70E-01	0.039	0.022	7.20E-02	-0.001	0.001	7.30E-01	0.001	0.003	8.10E-01	0.020	0.026	4.40E-01	0.001	0.002	6.40E-01
r142331290	17	7502034	A	G	98%	FXR2	TT male / SHBG male	-0.002	0.006	7.80E-01	0.050	0.077	5.20E-01	0.000	0.005	9.60E-01	0.019	0.010	4.40E-02	0.133	0.093	1.50E-01	0.019	0.008	1.80E-02
r118888972	17	7511652	C	T	99%	FXR2	TT male / SHBG male & female	-0.007	0.007	2.90E-01	-0.110	0.085	1.90E-01	-0.009	0.006	1.40E-01	0.006	0.011	5.90E-01	0.126	0.105	2.30E-01	0.010	0.009	3.00E-01
r11078701	17	7523708	C	T	98%	SHBG	SHBG female	-0.004	0.006	4.80E-01	-0.075	0.074	3.10E-01	-0.006	0.005	2.60E-01	0.007	0.009	4.20E-01	-0.014	0.089	8.80E-01	0.003	0.008	7.20E-01
r11799941	17	7533423	G	A	75%	SAT2	TT male / SHBG male	-0.003	0.002	1.60E-01	0.038	0.022	8.30E-02	0.000	0.002	7.80E-01	0.001	0.003	7.40E-01	0.023	0.026	3.90E-01	0.002	0.002	4.90E-01
r1727428	17	7537792	T	C	45%	SHBG	SHBG female	-0.005	0.002	2.00E-03	-0.008	0.019	6.70E-01	-0.004	0.001	2.00E-03	-0.005	0.002	2.80E-02	0.017	0.023	4.60E-01	-0.003	0.002	1.20E-01
r112982019	17	7538182	T	C	96%	SHBG	SHBG female	-0.009	0.004	3.90E-02	-0.046	0.050	3.60E-01	-0.008	0.003	1.60E-02	-0.011	0.006	9.00E-02	0.017	0.060	7.80E-01	-0.006	0.005	2.40E-01
r15716414	17	7538323	G	A	97%	SHBG	SHBG female	0.005	0.005	2.80E-01	-0.097	0.055	7.80E-02	0.000	0.004	9.70E-01	0.011	0.007	1.10E-02	-0.058	0.065	3.70E-01	0.005	0.006	4.40E-01
r172829428	17	7545530	A	G	98%	ATP1B2	TT male / SHBG male	0.012	0.006	3.00E-02	-0.018	0.068	7.90E-01	0.009	0.005	5.30E-02	-0.004	0.009	6.30E-01	-0.046	0.083	5.80E-01	-0.004	0.007	5.90E-01
r172829452	17	7562042	C	T	95%	ATP1B2	SHBG female	0.000	0.004	9.30E-01	-0.012	0.044	7.90E-01	0.007	0.006	2.10E-01	-0.023	0.053	6.70E-01	-0.024	0.034	4.00E-01	0.005	0.006	3.60E-01
r117557561	17	7568628	G	A	98%	TP53	SHBG male	-0.001	0.007	9.30E-01	0.021	0.081	8.00E-01	0.000	0.006	1.00E-00	0.014	0.010	1.50E-01	0.028	0.096	7.70E-01	0.011	0.009	1.90E-01
r117881850	17	7573057	G	A	99%	TP53	TT male / SHBG male	0.003	0.008	7.10E-01	-0.036	0.095	7.10E-01	0.003	0.007	6.40E-01	0.009	0.012	4.70E-01	0.089	0.117	4.50E-01	0.009	0.01	3.90E-01
r15627292	17	7576151	G	A	99%	TP53	TT male / SHBG male	-0.011	0.007	1.40E-01	-0.115	0.089	2.00E-01	-0.011	0.006	7.30E-02	-0.004	0.011	7.20E-01	-0.112	0.108	3.00E-01	-0.008	0.01	4.00E-01
r15642785	17	7579801	C	T	27%	TP53	TT male / SHBG male	0.000	0.002	8.80E-01	-0.011	0.022	6.00E-01	0.000	0.002	8.70E-01	-0.002	0.003	3.60E-01	0.027	0.026	3.10E-01	-0.001	0.002	6.70E-01
r181975550	17	7595379	C	T	97%	TP53	SHBG female	0.018	0.005	8.70E-05	-0.011	0.056	8.40E-01	0.013	0.004	8.70E-04	0.005	0.007	4.50E-01	0.121	0.068	7.50E-02	0.010	0.006	8.40E-02
r118062193	17	7606211	G	A	98%	EPN3	SHBG female	0.014	0.005	7.40E-03	-0.020	0.061	7.40E-01	0.009	0.004	3.70E-02	-0.009	0.008	2.50E-01	0.051	0.075	5.00E-01	-0.006	0.007	4.00E-01
r307626	17	7625396	G	A	68%	DNAH2	SHBG male	0.000	0.002	8.60E-01	-0.051	0.021	1.40E-02	-0.002	0.001	1.90E-01	0.001	0.003	7.90E-01	-0.026	0.025	3.00E-01	-0.001	0.002	7.50E-01
r34151038	17	7647006	C	T	91%	DNAH2	SHBG female	0.000	0.003	8.90E-01	-0.023	0.033	5.00E-01	0.000	0.002	9.20E-01	-0.003	0.004	4.30E-01	-0.045	0.040	2.70E-01	-0.005	0.004	2.00E-01
r112987630	17	7651906	C	T	98%	DNAH2	TT male / SHBG male & female	-0.003	0.006	6.20E-01	0.026	0.068	7.00E-01	-0.001	0.005	7.50E-01	0.013	0.009	1.30E-01	-0.092	0.082	2.60E-01	0.007	0.007	3.20E-01
r62052617	17	7658034	C	T	95%	DNAH2	TT male / SHBG male & female	0.001	0.003	8.60E-01	0.048	0.042	2.60E-01	0.002	0.003	8.40E-01	-0.003	0.005	6.10E-01	-0.018	0.051	7.30E-01	0.003	0.005	5.40E-01
177692484_AAA	17	7692484	AAA	A	41%		TT male / SHBG male	-0.001	0.002	6.00E-01	-0.010	0.019	6.00E-01	-0.001	0.001	6.70E-01	0.001	0.002	6.50E-01	0.016	0.024	5.00E-01	0.002	0.003	4.50E-01
r35295135	17	7701525	G	A	97%	DNAH2	SHBG male	0.005	0.005	3.10E-01	0.062	0.056	2.70E-01	0.005	0.004	1.80E-01	-0.011	0.007	1.20E-01	-0.073	0.068	2.80E-01	-0.013	0.006	3.90E-02
r6503062	17	7713781	G	A	41%	DNAH2	SHBG female	0.000	0.002	8.40E-01	-0.005	0.019	7.90E-01	0.000	0.004	9.90E-01	0.000	0.002	8.60E-01	0.022	0.024	3.40E-01	0.001	0.002	7.30E-01
r188773436	17	7713814	C	T	99%	DNAH2	SHBG male	-0.008	0.007	2.20E-01	-0.078	0.082	3.50E-01	-0.009	0.006	1.20E-01	-0.026	0.011	1.20E-02	0.104	0.102	3.00E-01	-0.015	0.009	8.90E-02
r99916791	17	7721231	T	C	74%	DNAH2	SHBG male	0.002	0.002	3.50E-01	0.044	0.022	4.30E-02	0.002	0.001	1.20E-01	-0.002	0.003	2.60E-01	-0.017	0.026	5.20E-01	-0.003	0.002	2.00E-02
r185225460	17	7724159	A	C	98%	DNAH2	SHBG male	0.007	0.002	2.40E-01	-0.113	0.072	1.20E-01	0.002	0.005	6.80E-01	-0.009	0.009	3.20E-01	-0.100	0.088	2.60E-01	-0.012	0.008	1.30E-01
r4130668	17	7739664	T	C	23%	KDM6B	SHBG male & female	0.003	0.006	8.10E-02	0.087	0.023	1.70E-01	0.005	0.002	1.50E-03	-0.002	0.003	4.40E-01	0.077	0.028	5.70E-03	0.001	0.002	5.60E-01
r175531890	17	7740529	C	T	94%	KDM6B	SHBG female	-0.011	0.003	6.00E-04	0.095	0.040	1.90E-02	-0.006	0.003	4.80E-02	-0.007	0.005	1.80E-01	0.049	0.049	3.10E-01	-0.003	0.004	4.90E-02
r176162631	17	7759239	A	C	99%	KDM6B	SHBG female	0.008	0.008	3.20E-01	-0.018	0.093	8.50E-01	0.006	0.006	3.50E-01	0.020	0.011	8.70E-02	0.097	0.110	3.80E-01	0.020	0.01	4.10E-01
r157414300	17	7781699	T	TA	81%	NAA38	TT male	0.000	0.002	8.10E-01	-0.015	0.025	5.50E-01	-0.001	0.002	6.30E-01	-0.002	0.003	4.90E-01	-0.034	0.030	2.60E-01	-0.003	0.003	3.40E-01
Af677497434	17	7871231	TA	T	44%		SHBG female	-0.006	0.002	1.30E-04	-0.003	0.019	8.80E-01	-0.005	0.001	5.10E-04	-0.005	0.002	4.10E-02	-0.029	0.023	2.80E-01	-0.005	0.002	2.70E-02
r177312413	17	7929172	G	C	95%	-	SHBG male	-0.009	0.003	1.10E-02	0.032	0.042	4.50E-01	-0.006	0.003	8.90E-02	-0.009	0.005	9.70E-02	0.049	0.051	3.30E-01	-0.005	0.004	3.00E-01
r54374227	17	7944147	G	C	65%	ALOX15B	SHBG female	0.001	0.002	6.40E-01	-0.003	0.020	8.90E-01	0.000	0.001	9.90E-01	-0.003	0.003	3.20E-01	-0.003	0.024	8.90E-01	-0.002	0.002	3.80E-01
r65903070	17	7948175	C	T	57%	ALOX15B	SHBG male	0.001	0.002	3.70E-01	-0.015	0.019	4.40E-01	0.000	0.001	8.00E-01	-0.002	0.002	3.10E-01	-0.004	0.023	8.60E-01	-0.002	0.002	3.70E-01
r172829232	17	7960224	C	T	97%	-	SHBG female	-0.010	0.004	2.10E-02	-0.009	0.054	8.60E-01	-0.008	0.004	2.60E-02	0.021	0.007	2.50E-03	-0.018	0.066	7.80E-01	0.015	0.006	1.10E-02
r150403148	17	7966861	G	A	97%	ALOXE3P1	SHBG male	-0.010	0.004	2.10E-02	-0.013	0.053	8.00E-01	-0.008	0.004	2.40E-02	0.021	0.007	1.90E-03	-0.					

SNP	CHR	BP	ea	oe	eaf	Gene	Trait	FVC			FEV1/FVC			FEV1		
								b	SE	P	b	SE	P	b	SE	P
r15497406	1	16505320	A	G	43%	-	SHBG male	0.000	0.001	6.80E-01	0.000	0.000	6.80E-01	0.000	0.001	7.10E-02
r153189848	1	25788422	A	G	54%	MCCO1	SHBG male	0.000	0.001	6.80E-01	0.000	0.000	6.30E-02	0.001	0.001	1.20E-01
r1514165349	1	27021913	G	C	98%	ARD1A	TT male / SHBG male	-0.002	0.003	5.30E-01	0.000	0.000	7.00E-01	0.001	0.001	1.20E-01
r1575460349	1	27180088	A	C	98%	ZDHHC18	SHBG female	-0.003	0.003	3.80E-01	0.000	0.000	6.30E-01	0.002	0.002	3.50E-01
r15768321	1	40035928	G	T	81%	NR0A55	SHBG male	-0.001	0.001	2.80E-01	0.000	0.000	3.40E-01	0.000	0.001	6.40E-01
r151806791	1	61684868	A	C	92%	NF1A	TT male	0.000	0.002	9.90E-01	0.000	0.000	7.20E-01	0.000	0.001	6.40E-01
r159708846	1	61687651	G	A	93%	NF1A	SHBG male	0.000	0.002	9.80E-01	0.000	0.000	6.40E-01	0.000	0.001	5.30E-01
r1469721	1	91530001	C	T	81%	-	SHBG female	-0.004	0.001	2.50E-03	0.000	0.000	3.60E-01	0.000	0.001	5.60E-01
r150676893	1	92709689	T	TAC	19%	GLMN	TT male	0.001	0.001	3.90E-01	0.000	0.000	7.50E-01	0.000	0.001	7.50E-01
r156603991	1	93032583	T	C	20%	EVIS	SHBG male	0.001	0.001	2.80E-01	0.000	0.000	9.90E-01	0.000	0.001	4.90E-01
r156884361	1	101173743	T	C	69%	PPAP7	TT female	0.000	0.001	7.20E-01	0.000	0.000	8.20E-01	0.000	0.001	6.40E-01
r152406721	1	107563243	G	T	66%	-	TT male	-0.001	0.001	5.80E-01	0.000	0.000	9.20E-01	0.000	0.001	8.90E-01
r151762509	1	107592959	A	G	34%	-	SHBG male	0.001	0.001	2.90E-01	0.000	0.000	9.30E-01	-0.001	0.001	4.20E-01
r151730864	1	107607810	C	T	34%	PRMT6	SHBG female	0.001	0.001	2.40E-01	0.000	0.000	9.20E-01	0.000	0.001	9.50E-01
r1540584594	1	110232983	A	G	28%	GSTM1	SHBG male & female	0.001	0.001	3.80E-01	0.000	0.000	9.30E-01	-0.001	0.001	1.70E-01
r15351364	1	113045061	A	T	25%	WNT2B	TT female	-0.001	0.001	5.90E-01	0.000	0.000	5.50E-01	0.001	0.002	4.10E-01
r159427104	1	154589232	C	T	53%	ADAR	SHBG male	0.000	0.001	4.60E-01	0.000	0.000	6.10E-01	0.000	0.001	4.60E-01
r159426827	1	154589965	C	T	53%	ADAR	SHBG female	0.000	0.001	4.60E-01	0.000	0.000	5.70E-01	-0.001	0.001	5.40E-01
r15250477	1	179274897	G	C	76%	SOA11	TT female	0.000	0.001	8.90E-01	0.000	0.000	4.70E-01	0.000	0.001	8.90E-01
r14915180	1	196905991	G	C	59%	-	SHBG female	0.000	0.001	2.90E-01	0.000	0.000	5.60E-01	0.000	0.001	5.00E-01
r151428399	1	204161520	GT	75%	KISS1	TT male	0.000	0.001	2.40E-01	0.000	0.000	2.40E-02	-0.001	0.001	1.70E-01	
r150864086	1	214318748	A	C	26%	LINC02775	SHBG male	0.000	0.001	8.50E-01	0.001	0.001	2.50E-01	-0.002	0.001	1.10E-02
r152860075	1	214320215	A	G	37%	LINC02775	SHBG female	0.000	0.001	5.40E-01	0.000	0.001	9.30E-01	-0.001	0.001	1.30E-01
r152642438	1	220970028	A	G	29%	MTRAC1	SHBG male	0.000	0.001	1.30E-01	0.000	0.001	4.10E-01	0.000	0.001	8.50E-01
r15299558	2	12533555	G	A	95%	RNU6-843P	TT female	-0.003	0.002	1.50E-01	0.000	0.000	5.60E-01	0.000	0.001	6.70E-01
r157652790	2	27055853	A	G	89%	-	SHBG male	0.001	0.001	4.50E-01	0.000	0.000	5.50E-02	0.001	0.001	6.60E-02
r1513032431	2	27301404	G	T	95%	EMILUN1	SHBG male & female	0.000	0.002	9.30E-01	0.000	0.000	6.20E-02	-0.001	0.001	1.20E-01
r156547856	2	27393382	T	C	94%	-	SHBG female	0.001	0.002	7.90E-01	0.001	0.000	5.80E-03	0.001	0.002	7.90E-01
r1557800810	2	27416517	A	G	6%	-	TT male	0.001	0.002	6.50E-01	0.000	0.000	1.30E-02	0.000	0.001	8.70E-01
r1515961201	2	27704896	G	A	96%	IFT172	SHBG male	0.001	0.002	8.30E-01	0.000	0.000	1.50E-01	0.000	0.001	9.90E-01
r1577163241	2	27709510	A	G	98%	IFT172	SHBG male	0.001	0.003	7.20E-01	0.000	0.001	8.10E-01	0.001	0.001	1.30E-01
r15260326	2	27730940	T	C	39%	GOKR	TT male & female / SHBG male & female	-0.001	0.001	8.00E-01	0.000	0.000	8.90E-02	-0.001	0.001	1.80E-01
r1562131877	2	27743028	C	T	95%	GOKR	SHBG male	-0.001	0.002	6.60E-01	0.000	0.000	4.60E-01	-0.001	0.002	6.00E-01
r151969131	2	28341375	C	T	83%	BABAM2	SHBG male	0.001	0.001	6.00E-01	0.000	0.000	9.00E-02	0.000	0.001	8.00E-01
r157775907	2	31609942	G	A	96%	XDH	SHBG male	0.000	0.003	9.40E-01	0.000	0.000	5.50E-01	0.000	0.003	9.40E-01
r1513017476	2	31989359	G	A	96%	-	TT male	0.000	0.002	9.60E-01	0.000	0.000	6.00E-01	0.000	0.002	9.60E-01
r1562142079	2	32178752	C	T	56%	MEMO1	TT male	-0.002	0.001	9.60E-02	0.000	0.000	9.00E-01	0.000	0.001	9.60E-02
r157287535	2	32873774	C	T	96%	TIC27	SHBG male	0.000	0.002	9.40E-01	0.000	0.000	7.00E-01	0.000	0.002	9.40E-01
r153038262_TTT	2	33038262	TTAT	T	96%	-	TT male	0.001	0.003	7.80E-02	0.000	0.000	5.50E-01	-0.002	0.002	3.30E-01
r156736913	2	42510018	A	G	2%	EML4	SHBG male	0.005	0.003	7.50E-02	0.000	0.000	8.50E-01	0.000	0.001	7.90E-01
r157599564	2	43509617	A	G	39%	THADA	TT female	0.001	0.001	2.60E-01	0.000	0.000	5.00E-01	0.001	0.001	2.40E-01
r1510165929	2	64902288	A	C	26%	SERTAD2	SHBG female	0.001	0.001	1.70E-01	0.000	0.000	8.00E-01	-0.002	0.002	3.10E-01
r156546096	2	64906295	A	G	26%	SERTAD2	SHBG male	0.002	0.001	1.20E-01	0.000	0.000	6.60E-01	0.000	0.001	6.10E-01
r1568088484	2	70438552	G	GT	93%	TIA1	SHBG female	-0.003	0.002	6.70E-02	0.000	0.000	6.00E-01	-0.003	0.003	2.80E-01
r1572904362	2	70537712	C	A	93%	-	SHBG male	-0.003	0.002	6.80E-02	0.000	0.000	5.50E-01	-0.002	0.002	7.80E-01
r15590097	2	111934107	T	G	35%	MIR4453-2HG	TT female	-0.001	0.001	5.70E-01	0.000	0.000	2.20E-01	-0.002	0.001	1.40E-01
r1510184004	2	16550889	C	T	59%	CORL1	SHBG female	0.000	0.001	4.70E-01	0.000	0.000	2.60E-01	0.001	0.001	1.00E-01
r1513389219	2	165528926	C	T	60%	CORL1	SHBG male	0.001	0.001	3.70E-01	0.000	0.000	1.60E-01	0.000	0.001	3.70E-01
r159288177	2	191585252	G	A	63%	-	SHBG male	-0.001	0.001	2.00E-01	0.000	0.000	1.60E-01	0.002	0.002	4.70E-01
r152709371	2	208384687	A	G	82%	-	SHBG male	-0.001	0.001	4.50E-01	0.000	0.000	5.00E-01	-0.001	0.001	4.50E-01
r151047891	2	211540507	C	A	68%	CP51	SHBG female	0.000	0.001	5.00E-01	0.000	0.000	7.70E-01	0.000	0.001	6.00E-01
r152176040	2	227098202	A	G	35%	-	SHBG female	-0.001	0.001	3.70E-01	0.000	0.000	4.80E-01	-0.001	0.001	3.70E-01
r152972146	2	227100698	G	T	34%	-	SHBG male	-0.001	0.001	3.10E-01	0.000	0.000	9.70E-01	-0.001	0.001	3.10E-01
r1562195072	2	234260879	T	C	68%	DGKD	SHBG male	-0.001	0.001	3.20E-01	0.000	0.000	3.20E-01	-0.001	0.001	3.20E-01
r15573393296	2	234614740	T	TA	91%	UGT1A6	TT male	0.002	0.001	1.70E-01	0.000	0.000	6.90E-01	0.002	0.001	5.90E-01
r157618363	3	10545125	C	G	84%	ATP2B2	TT female	0.001	0.001	1.30E-01	0.000	0.000	4.50E-02	0.000	0.001	7.00E-01
r159826367	3	12294202	A	G	55%	-	SHBG female	0.000	0.001	6.50E-01	0.000	0.000	7.70E-01	0.000	0.001	6.00E-01
r14684847	3	12386337	C	T	88%	PPARG	SHBG male	0.000	0.001	6.60E-01	0.000	0.000	3.80E-01	0.000	0.001	6.60E-01
r151801282	3	12393125	C	G	88%	PPARG	SHBG female	0.000	0.001	6.90E-01	0.000	0.000	3.90E-01	0.000	0.001	6.90E-01
r1575281360	3	14422176	ACTA1	A	90%	-	TT female	-0.001	0.001	5.10E-01	0.000	0.000	2.80E-01	-0.001	0.001	5.10E-01
r1541108513_TGT	3	411108513	GAAT	T	88%	-	TT male	-0.001	0.001	6.00E-01	0.000	0.000	7.20E-01	0.000	0.001	8.90E-01
r1513092573	3	46988561	C	T	66%	CCDC12	SHBG female	0.001	0.001	2.10E-01	0.000	0.000	2.60E-02	0.000	0.001	4.10E-01
r1513084243	3	49821878	G	C	68%	IPK1	SHBG female	0.000	0.001	5.20E-01	0.000	0.000	9.00E-01	0.000	0.003	8.90E-01
r15645040	3	135926622	G	T	23%	RPL31P23	TT male / SHBG male	0.000	0.001	5.10E-01	0.000	0.000	3.00E-01	0.001	0.001	2.20E-01
r15687339	3	135932359	C</													

r1032388	6	119171866	T	C	22%	MCM9	TT female	0.000	0.001	8.70E-01	0.000	0.000	9.90E-01	0.001	0.001	2.30E-01	0.000	0.001	8.70E-01	0.000	0.000	9.90E-01	0.000	0.00089099	6.00E-01
r13220350	6	127182820	C	A	58%	-	TT female	0.000	0.001	7.50E-01	0.000	0.000	8.10E-01	0.000	0.001	7.50E-01	0.000	0.000	7.50E-01	0.000	0.000	8.10E-01	0.001	0.00075951	4.80E-01
r9399469	6	144318529	T	A	38%	PLAGL1	TT female	0.000	0.001	9.10E-01	0.000	0.000	7.20E-01	0.000	0.000	9.10E-01	0.000	0.000	9.10E-01	0.000	0.000	7.20E-01	0.000	0.000	7.20E-01
r34841782	6	160770512	G	GT	53%	SLC22A3	SHBG female	0.000	0.001	1.00E+00	0.000	0.000	4.40E-01	0.001	0.002	5.90E-01	0.000	0.000	1.00E+00	0.000	0.000	4.40E-01	0.000	0.000	4.40E-01
r500823	6	160771465	C	A	53%	SLC22A3	SHBG male	0.000	0.001	8.30E-01	0.000	0.000	4.60E-01	0.001	0.001	3.20E-01	0.000	0.000	8.30E-01	0.000	0.000	4.60E-01	0.000	0.000	4.60E-01
r9986829	7	15019259	G	A	49%	DGKB	TT male	-0.001	0.001	2.20E-01	0.000	0.000	9.50E-01	0.000	0.000	2.20E-01	0.000	0.000	1.50E-01	0.000	0.000	9.50E-01	-0.001	0.000747751	1.80E-01
r849135	7	28196413	G	A	51%	ATZF1	SHBG male	0.000	0.001	6.20E-01	0.000	0.000	9.50E-01	0.000	0.001	9.80E-01	0.001	0.001	6.90E-02	0.000	0.000	9.50E-01	0.000	0.000748257	6.50E-01
r34060476	7	73027956	A	G	57%	MXIPL	TT female	-0.001	0.001	3.40E-01	0.000	0.000	8.90E-01	0.001	0.002	7.30E-01	0.000	0.000	7.60E-01	0.000	0.000	8.90E-01	0.000	0.000	8.90E-01
r1229492	7	81564122	T	C	27%	-	SHBG male	-0.001	0.001	3.00E-01	0.000	0.000	7.40E-01	-0.003	0.002	8.60E-02	-0.001	0.001	3.00E-01	0.000	0.000	7.40E-01	0.000	0.00089753	4.40E-01
r445	7	92408370	C	T	90%	CDHG	SHBG male	0.000	0.002	8.00E-01	0.000	0.000	2.60E-01	0.000	0.001	4.60E-01	0.000	0.002	8.00E-01	0.000	0.000	2.60E-01	0.000	0.000852753	7.70E-01
r6950023	7	97915635	T	G	19%	BRR3	SHBG male	0.001	0.001	2.80E-01	0.000	0.000	3.40E-01	0.000	0.001	8.20E-01	0.001	0.001	2.80E-01	0.000	0.000	3.40E-01	0.000	0.000656129	9.40E-01
r147098434	7	97917357	T	G	99%	BAIAP2L1	TT male	0.001	0.004	7.70E-01	0.000	0.000	4.80E-01	0.002	0.001	1.30E-01	0.000	0.004	7.70E-01	0.000	0.000	4.80E-01	0.003	0.0024903	1.80E-01
r5888062	7	97942070	C	CTG	19%	BAIAP2L1	SHBG female	0.001	0.001	3.30E-01	0.000	0.000	3.30E-01	0.001	0.001	1.70E-01	0.001	0.001	3.30E-01	0.000	0.000	3.30E-01	0.000	0.000657564	1.00E+00
r1635612	7	98015049	G	T	19%	BAIAP2L1	TT male	0.001	0.001	2.80E-01	0.000	0.000	3.20E-01	0.000	0.002	9.70E-01	0.001	0.001	2.80E-01	0.000	0.000	3.20E-01	0.000	0.000656435	9.80E-01
r76083622	7	98814780	G	A	98%	KPNA7	TT female	0.003	0.004	3.70E-01	0.000	0.000	2.50E-01	0.003	0.004	3.70E-01	0.000	0.000	3.70E-01	0.000	0.000	2.50E-01	0.001	0.00203886	7.00E-01
r116928828	7	98831324	G	A	98%	KPNA7	TT female	-0.003	0.003	2.50E-01	0.000	0.000	1.30E-01	-0.001	0.001	1.20E-01	-0.003	0.003	2.50E-01	0.000	0.000	1.30E-01	0.001	0.00173593	9.20E-01
r110232076	7	98948904	C	T	90%	ARPC1A	TT female	0.000	0.002	7.90E-01	0.000	0.000	9.10E-01	-0.001	0.001	2.00E-01	0.000	0.002	7.90E-01	0.000	0.000	9.10E-01	-0.002	0.000947268	1.10E-01
r45446698	7	99332948	T	G	96%	CYP3A7	TT female	-0.001	0.002	6.00E-01	0.000	0.000	9.00E-02	-0.001	0.001	1.90E-01	-0.001	0.002	6.00E-01	0.000	0.000	9.00E-02	-0.001	0.00133669	6.70E-01
r13238380	7	99629061	C	T	63%	ZKSCAN1	TT female	-0.001	0.001	3.00E-01	0.000	0.000	9.10E-01	-0.001	0.001	3.00E-01	0.000	0.000	3.00E-01	0.000	0.000	9.10E-01	0.000	0.000533004	6.90E-01
r77787571	7	99664817	A	G	76%	ZKSCAN1	TT female	0.000	0.001	6.80E-01	0.000	0.000	9.50E-01	0.000	0.001	6.80E-01	0.000	0.000	6.80E-01	0.000	0.000	9.50E-01	0.000	0.000666889	8.70E-01
r140600498	7	99740363	A	G	99%	-	TT female	0.005	0.004	2.20E-01	0.001	0.000	2.10E-01	0.005	0.004	2.20E-01	0.001	0.000	2.10E-01	0.000	0.000	2.10E-01	-0.004	0.00261702	9.80E-02
r117339142	7	100282707	G	A	97%	GIGY1	TT female	-0.004	0.003	1.90E-01	0.000	0.000	3.90E-01	0.000	0.001	7.10E-01	-0.004	0.003	1.90E-01	0.000	0.000	3.90E-01	0.000	0.00115391	7.90E-01
r13245899	7	10049131	A	G	81%	ACHE	SHBG female	-0.002	0.001	7.50E-02	0.000	0.000	7.40E-01	-0.001	0.001	4.30E-01	-0.002	0.001	7.50E-02	0.000	0.000	7.40E-01	0.000	0.000650423	6.50E-01
r13226864	7	100499315	G	A	82%	ACHE	SHBG male	-0.002	0.001	6.10E-02	0.000	0.000	6.10E-01	0.000	0.001	9.70E-01	-0.002	0.001	6.10E-02	0.000	0.000	6.10E-01	0.000	0.000659021	7.70E-01
r35225944	7	101831484	T	TA	67%	CLX1	SHBG male	0.000	0.001	9.30E-01	0.000	0.000	3.40E-01	0.000	0.000	9.30E-01	0.000	0.000	9.30E-01	0.000	0.000	3.40E-01	0.000	0.000553441	4.30E-01
r157935	7	13058553	T	G	70%	UNC-PINT	SHBG male	0.000	0.001	8.50E-01	0.000	0.000	3.60E-01	0.001	0.002	5.30E-01	0.000	0.000	8.50E-01	0.000	0.000	3.60E-01	0.000	0.000656435	9.80E-01
r1038626	7	13779747	A	T	21%	AKR1D1	TT female	-0.001	0.001	3.30E-01	0.000	0.000	4.00E-01	0.000	0.000	4.00E-01	0.000	0.000	3.30E-01	0.000	0.000	4.00E-01	0.001	0.000642816	1.20E-01
r34372369	7	14309269	G	A	95%	EPHA1	SHBG male	0.001	0.002	7.80E-01	0.000	0.000	5.10E-02	0.000	0.000	5.10E-02	0.000	0.000	7.80E-01	0.000	0.000	5.10E-02	-0.001	0.00115734	6.60E-01
r150502468_AT	7	150502468	AT	A	89%	-	SHBG male	0.001	0.001	6.90E-01	0.000	0.000	1.10E-01	0.000	0.000	1.10E-01	0.000	0.000	6.90E-01	0.000	0.000	1.10E-01	0.000	0.000812234	7.50E-01
r9987289	8	9183358	A	G	9%	PPP1R3B-DT	SHBG female	-0.002	0.001	2.10E-01	0.000	0.000	8.30E-01	0.001	0.001	2.90E-01	-0.002	0.001	5.80E-02	0.000	0.000	8.30E-01	0.001	0.000877882	4.80E-01
r12126259	8	9185146	T	C	10%	PPP1R3B-DT	SHBG male	-0.001	0.001	1.70E-01	0.000	0.000	5.00E-01	0.000	0.001	6.60E-01	-0.001	0.001	1.70E-01	0.000	0.000	5.00E-01	0.000	0.000839653	9.00E-01
r77258375	8	42332640	C	CT	65%	SLC20A2	SHBG female	0.000	0.001	9.50E-01	0.000	0.000	3.90E-01	-0.001	0.001	4.50E-01	0.000	0.001	9.50E-01	0.000	0.000	8.00E-01	0.000	0.000539036	8.80E-01
r4738684	8	5939273	A	G	33%	-	SHBG male	0.000	0.001	3.80E-01	0.000	0.000	4.20E-02	0.000	0.001	1.40E-01	0.000	0.000	2.60E-01	0.000	0.000	9.00E-01	0.000	0.000541659	8.90E-01
r13269725	8	72458889	A	G	92%	EYA1	SHBG female	-0.001	0.002	7.10E-01	0.000	0.000	3.90E-01	0.000	0.001	5.90E-01	-0.001	0.002	7.10E-01	0.000	0.000	3.90E-01	0.001	0.000956496	1.40E-01
r4445199	8	7888084	C	T	74%	PEX2	TT male	-0.001	0.001	2.10E-01	0.000	0.000	3.20E-01	0.000	0.001	9.80E-01	-0.001	0.001	2.10E-01	0.000	0.000	3.20E-01	0.001	0.000887105	2.60E-01
r11994858	8	81273210	A	G	35%	-	SHBG male	0.002	0.001	5.00E-01	0.000	0.000	9.50E-01	0.000	0.001	9.90E-01	0.001	0.001	5.00E-01	0.000	0.000	9.50E-01	0.000	0.000531046	7.50E-01
r74856683	8	81323554	C	T	94%	-	SHBG female	0.002	0.002	3.80E-01	0.000	0.000	4.20E-02	0.002	0.002	3.80E-01	0.000	0.000	3.80E-01	0.000	0.000	4.20E-02	0.000	0.0016701	7.50E-01
r150539196	8	81399180	A	G	97%	ZBTB10	SHBG male	-0.003	0.003	2.10E-01	0.000	0.000	3.40E-01	-0.002	0.002	3.40E-01	-0.003	0.003	2.10E-01	0.000	0.000	3.40E-01	0.002	0.00139472	1.60E-01
8.81430449_AT	8	81430449	AT	A	90%	-	SHBG female	-0.001	0.002	6.20E-01	0.000	0.000	8.20E-02	0.001	0.002	6.00E-01	-0.001	0.002	6.20E-01	0.000	0.000	8.20E-02	0.000	0.000849898	8.40E-01
8.81457499_CA	8	81457499	CA	A	78%	-	SHBG male & female	0.001	0.001	5.00E-01	0.000	0.000	5.30E-01	0.001	0.001	5.00E-01	0.000	0.000	5.00E-01	0.000	0.000	5.30E-01	0.001	0.000632762	1.80E-01
r907816	8	81465147	A	G	92%	-	SHBG female	0.002	0.002	7.70E-01	0.000	0.000	9.50E-01	-0.002	0.002	4.20E-01	0.001	0.001	5.00E-01	0.000	0.000	9.50E-01	0.000	0.00097221	6.70E-01
r6996954	8																								

r5778571122	11	16247860	TTGT	G	61%	S0X6	SHBG male & female	0.000	0.001	7.10E-01	0.000	0.000	5.20E-01	0.000	0.001	8.80E-01	0.000	0.001	7.10E-01	0.000	0.000	5.20E-01	0.001	0.000525858	2.00E-01	
r5174554	11	61579463	A	G	66%	FAD52	SHBG female	0.000	0.000	7.50E-01	0.001	0.001	2.50E-01	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	7.50E-01	0.000	0.000	6.20E-02
r5113172275	11	62905115	T	C	94%	SIC2A24	TT female	0.000	0.000	6.20E-02	0.000	0.001	6.00E-01	-0.001	0.001	1.30E-01	0.000	0.001	7.80E-01	0.000	0.000	3.40E-01	0.000	0.000	6.20E-02	
r5146079754	11	64297912	C	T	99%	-	TT female	0.000	0.000	3.40E-01	0.000	0.001	8.30E-01	0.000	0.001	5.10E-01	0.000	0.001	5.10E-01	0.000	0.000	3.00E-01	0.000	0.000	7.70E-02	
r52105608	11	65228618	T	A	67%	-	SHBG female	0.000	0.000	3.00E-01	0.000	0.000	8.30E-01	-0.005	0.002	2.30E-03	0.000	0.000	0.000	0.000	0.000	8.30E-01	0.000	0.000	2.10E-01	
r512797706	11	65561369	G	A	76%	OVLL1	SHBG male & female	0.000	0.000	3.00E-01	0.000	0.000	8.30E-01	0.000	0.001	9.70E-01	0.000	0.001	9.70E-01	0.000	0.000	7.00E-01	0.000	0.000	9.50E-01	
r5312023	11	68097049	G	A	47%	LRP5	TT female	0.000	0.000	7.70E-02	0.001	0.001	5.10E-01	0.000	0.001	5.10E-01	0.000	0.001	5.10E-01	0.000	0.000	3.00E-01	0.000	0.000	7.70E-02	
r53884627	11	69025799	T	G	31%	-	SHBG male	0.000	0.000	8.30E-01	-0.005	0.002	2.30E-03	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	8.30E-01	0.000	0.000	8.30E-01	
r512280075	11	69170389	T	G	67%	-	SHBG male	0.000	0.000	2.10E-01	0.000	0.001	9.70E-01	0.000	0.001	9.70E-01	0.000	0.001	9.70E-01	0.000	0.000	2.10E-01	0.000	0.000	2.10E-01	
r572932198	11	69175126	G	A	96%	-	SHBG male	0.000	0.000	7.00E-01	0.000	0.000	9.50E-01	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	7.00E-01	0.000	0.000	7.00E-01	
r534817958	11	69283255	G	A	77%	-	SHBG female	0.000	0.000	9.50E-01	0.000	0.000	9.50E-01	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	9.50E-01	0.000	0.000	9.50E-01	
r5631695	11	69283303	T	G	42%	-	SHBG male	0.000	0.000	8.20E-01	-0.001	0.001	4.60E-01	0.000	0.001	4.60E-01	0.000	0.001	4.60E-01	0.000	0.000	8.20E-01	0.000	0.000	8.20E-01	
r5426907	11	72294440	G	A	70%	PDE2A	TT female	0.000	0.000	6.00E-01	0.000	0.001	7.70E-01	0.000	0.001	7.70E-01	0.000	0.001	7.70E-01	0.000	0.000	6.00E-01	0.000	0.000	6.00E-01	
r512575636	11	95311260	T	G	81%	-	SHBG female	0.000	0.000	3.30E-02	0.001	0.002	6.20E-01	0.000	0.002	6.20E-01	0.000	0.002	6.20E-01	0.000	0.000	3.30E-02	0.000	0.000	3.30E-02	
r510791570	11	102125714	G	A	67%	-	SHBG male	0.000	0.000	1.90E-01	0.000	0.000	1.90E-01	0.000	0.000	1.90E-01	0.000	0.000	1.90E-01	0.000	0.000	1.90E-01	0.000	0.000	1.90E-01	
r5850294	11	123437669	C	T	89%	GRAMD1B	TT female	0.000	0.000	4.50E-01	-0.001	0.001	5.50E-01	0.000	0.001	5.50E-01	0.000	0.001	5.50E-01	-0.001	0.001	4.50E-01	0.000	0.000	4.50E-01	
r56196880	12	2908330	C	A	97%	FKBP4	TT male	0.001	0.002	7.20E-01	-0.001	0.000	1.30E-02	0.000	0.001	3.90E-01	0.001	0.002	7.20E-01	0.000	0.000	1.30E-02	0.000	0.00146124	9.50E-01	
r57298820	12	20581339	A	T	80%	PDE3A	SHBG female	0.001	0.001	4.40E-01	0.000	0.001	3.50E-01	0.000	0.001	4.40E-01	0.001	0.001	4.40E-01	0.000	0.001	3.50E-01	0.001	0.000626415	3.30E-01	
r535643911	12	20942031	A	AT	94%	-	SHBG male	0.000	0.001	7.60E-01	0.000	0.002	8.10E-01	0.000	0.001	7.60E-01	0.000	0.001	7.60E-01	0.000	0.001	7.60E-01	0.000	0.00111415	6.80E-01	
r510841648	12	20954557	C	A	35%	-	SHBG male	0.000	0.001	9.90E-01	0.000	0.001	9.90E-01	0.000	0.001	6.00E-01	0.000	0.001	6.00E-01	0.000	0.000540901	9.00E-01	0.000	0.000540901	9.00E-01	
r510841753	12	21321370	T	C	81%	SICD1B1	SHBG male	0.001	0.001	4.30E-01	-0.001	0.001	4.70E-01	0.001	0.001	4.30E-01	0.001	0.001	4.30E-01	0.000	0.000660601	5.60E-01	0.000	0.000660601	5.60E-01	
r54149056	12	21331549	T	C	85%	SICD1B1	TT male / SHBG male	0.002	0.001	8.20E-02	0.001	0.001	5.30E-01	0.002	0.001	8.20E-02	0.001	0.001	8.20E-02	0.000	0.000713824	5.70E-01	0.000	0.000713824	5.70E-01	
r511045383	12	21340507	G	A	79%	SICD1B1	TT male	0.000	0.001	5.60E-01	0.000	0.001	5.60E-01	0.000	0.001	5.60E-01	0.000	0.001	5.60E-01	0.000	0.000633257	6.70E-01	0.000	0.000633257	6.70E-01	
r567981690	12	21343886	A	G	87%	SICD1B1	SHBG female	0.001	0.001	3.70E-01	-0.001	0.001	8.30E-02	0.001	0.001	3.70E-01	0.001	0.001	3.70E-01	0.000	0.000767875	8.40E-01	0.000	0.000767875	8.40E-01	
r510841772	12	21407368	A	G	75%	-	SHBG female	0.000	0.001	8.40E-01	0.000	0.001	8.40E-01	0.000	0.001	8.40E-01	0.000	0.001	8.40E-01	0.000	0.000598929	8.10E-01	0.000	0.000598929	8.10E-01	
r512704675	12	21498926	C	T	92%	SICD1A2	SHBG male	0.001	0.001	5.00E-01	-0.001	0.001	1.00E-01	0.001	0.001	5.00E-01	0.001	0.001	5.00E-01	0.001	0.000922107	4.90E-01	0.000	0.000922107	4.90E-01	
r512319043	12	24233568	A	G	96%	S0X5	SHBG female	0.000	0.002	8.50E-01	0.000	0.001	9.00E-01	0.000	0.002	8.50E-01	0.000	0.002	8.50E-01	0.000	0.00138933	9.60E-01	0.000	0.00138933	9.60E-01	
r575667995	12	25409070	T	C	93%	-	SHBG male	0.000	0.001	8.10E-01	0.000	0.001	8.10E-01	0.000	0.001	8.10E-01	0.000	0.001	8.10E-01	0.001	0.000877554	4.30E-01	0.000	0.000877554	4.30E-01	
r575130744	12	25410741	G	C	93%	-	SHBG female	0.000	0.001	8.80E-01	0.000	0.001	6.80E-01	0.000	0.001	8.80E-01	0.000	0.001	8.80E-01	0.000	0.0009947	3.50E-01	0.000	0.0009947	3.50E-01	
r54307773	12	51144432	T	C	42%	DIP2B	SHBG female	-0.001	0.001	3.60E-01	0.000	0.001	3.60E-01	0.001	0.001	3.60E-01	0.001	0.001	3.60E-01	0.001	0.00020743	2.00E-01	0.000	0.00020743	2.00E-01	
r57974833	12	57791833	T	C	77%	R3HDM2	TT male	0.001	0.001	2.40E-01	-0.001	0.001	2.30E-01	0.001	0.001	2.40E-01	0.001	0.001	2.40E-01	0.000	0.000594849	6.20E-01	0.000	0.000594849	6.20E-01	
r511614506	12	57815675	T	C	78%	R3HDM2	SHBG female	0.001	0.001	3.00E-01	0.001	0.001	5.90E-01	0.001	0.001	3.00E-01	0.001	0.001	3.00E-01	0.000	0.000601902	8.10E-01	0.000	0.000601902	8.10E-01	
r561352607	12	57839173	G	T	77%	INHBC	SHBG male	0.001	0.001	3.50E-01	0.000	0.001	5.80E-01	0.000	0.001	3.50E-01	0.000	0.001	3.50E-01	0.000	0.000588838	7.50E-01	0.000	0.000588838	7.50E-01	
r51110363	12	10078398	G	C	57%	SIC17A8	SHBG female	0.000	0.001	1.00E+00	-0.001	0.001	3.30E-01	0.001	0.001	3.30E-01	0.000	0.001	1.00E+00	0.000	0.000525981	9.00E-01	0.000	0.000525981	9.00E-01	
r5375115050	12	101015655	G	T	99%	GAS2L3	SHBG male	0.000	0.001	1.00E+00	-0.001	0.001	5.10E-01	0.000	0.001	5.10E-01	0.000	0.001	5.10E-01	0.000	0.000525981	9.00E-01	0.000	0.000525981	9.00E-01	
r5141556543	12	101113238	C	T	99%	ANO4	SHBG female	0.000	0.001	7.20E-01	0.000	0.001	6.20E-01	0.000	0.001	7.20E-01	-0.001	0.001	9.20E-02	0.000	0.000594621	1.20E-01	0.000	0.000594621	1.20E-01	
r510778174	12	102838996	A	G	25%	IGF1	SHBG female	-0.001	0.001	9.20E-02	0.000	0.001	7.20E-01	0.000	0.001	7.20E-01	0.000	0.001	9.20E-02	-0.001	0.001	9.20E-02	0.000	0.000594621	1.20E-01	
r54764939	12	103522952	C	T	52%	-	SHBG female	0.000	0.001	9.20E-01	0.000	0.001	9.20E-01	0.000	0.001	9.20E-01	0.000	0.001	9.20E-01	0.000	0.000515284	1.00E+00	0.000	0.000515284	1.00E+00	
r511830764	12	111515020	G	C	92%	CUX2	SHBG male & female	0.000	0.001	9.20E-01	0.000	0.001	5.90E-01	0.000	0.001	5.90E-01	0.000	0.001	5.90E-01	0.000	0.00103901	6.40E-01	0.000	0.00103901	6.40E-01	
12:121405326_G	12	121405326	ICAGL	G	52%	-	SHBG female	0.001	0.002	5.40E-01	-0.001	0.001	1.30E-01	0.001	0.001	1.30E-01	0.001	0.001	1.30E-01	0.000	0.000508583	1.10E-01	0.000	0.000508583	1.10E-01	
r51800574	12	121416864	C	T	97%	HNF1A	SHBG male	0.000	0.001	1.10E-01	0.000	0.002	1.10E-01	0.001	0.002	1.10E-01	0.001	0.002	1.10E-01	0.001	0.00155707	1.40E-01	0.000	0.00155707	1.40E-01	
r57979473	12	121420260	A	G	39%	HNF1A	TT male / SHBG male	0.000	0.001	3.00E-01	0.000	0.001	6.80E-01	0.000	0.001	6.80E-01	0.000	0.001	6.80E-01	0.000	0.000526378	2.00E-01	0.000	0.000526378	2.00E-01	
r51716407	12	124515218	G	A	41%	RFLNA	SHBG female	0.001	0.001	2.70E-01	-0.001	0.001	3.80E-01	0.001	0.001	2.70E-01	0.001	0.001	3.80E-01	0.000	0.000524792	4.90E-01	0.000	0.000524792	4.90E-01	
r56486542	12	130952209	C	T	57%	RIMBP2	TT male	0.000	0.001	9.00E-01	0.000	0.001	9.00E-01	0.000	0.001	9.00E-01	0.000	0.001	9.00E-01	0.000	0.000518058	8.40E-01	0.000	0.000518058	8.40E-01	
r59506725	12	22314146	T	C	64%	-	TT female	-0.001	0.001	2.40E-01	0.000	0.000	6.30E-01	-0.001	0.001	6.00E-01	0.000	0.000	6.30E-01	0						

