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Supplemental Table 1. Genetic predictors for SHBG in men

	Allele increasing SHBG			Allele decreasing SHBG		
SNP	Allele	Association with SHBG	SE	Allele	Association with SHBG	SE
1:1510035_GGC_G	G	0.01	0.001	GGC	-0.01	0.001
1:167851935_TGTAGTGAGAGGTAGCCCAGC_T	T	0.007	0.001	TGTAGTGAGAGGTAGCCCAGC	-0.007	0.001
1:196914907_AGT_A	AGT	0.01	0.001	A	-0.01	0.001
1:23747996_GA_G	G	0.008	0.001	GA	-0.008	0.001
1:25827633_CT_C	CT	0.011	0.001	C	-0.011	0.001
1:35734986_AAGTGCATCTTT_A	A	0.01	0.002	AAGTGCATCTTT	-0.01	0.002
1:93033928_CT_C	C	0.013	0.001	CT	-0.013	0.001
11:65227616_CAAA_C	CAAA	0.007	0.001	C	-0.007	0.001
12:93632423_CA_C	CA	0.012	0.002	C	-0.012	0.002
13:115013423_TTCTC_T	TTCTC	0.009	0.001	T	-0.009	0.001
14:25948829_AAC_A	AAC	0.012	0.001	A	-0.012	0.001
16:1786202_TGTGTGACCATCC_T	T	0.009	0.002	TGTGTGACCATCC	-0.009	0.002
17:16062400_TA_T	T	0.006	0.001	TA	-0.006	0.001
17:67080811_CT_C	C	0.008	0.001	CT	-0.008	0.001
17:8567107_CA_C	CA	0.043	0.008	C	-0.043	0.008
19:7223973_TTTG_T	TTTG	0.011	0.001	T	-0.011	0.001
2:111925731_CTTATGTT_C	CTTATGTT	0.016	0.003	C	-0.016	0.003
2:191559843_GT_G	GT	0.01	0.001	G	-0.01	0.001
3:49562992_CT_C	CT	0.01	0.001	C	-0.01	0.001
4:128987952_ATT_A	A	0.006	0.001	ATT	-0.006	0.001
5:36206855_GAT_G	G	0.02	0.004	GAT	-0.02	0.004
6:27223966_CTCTA_C	C	0.013	0.002	CTCTA	-0.013	0.002
6:28419903_GGT_G	G	0.007	0.001	GGT	-0.007	0.001
7:74298343_TGAGA_T	T	0.008	0.001	TGAGA	-0.008	0.001
8:81430449_AT_A	A	0.022	0.002	AT	-0.022	0.002
8:81457499_CA_C	C	0.014	0.002	CA	-0.014	0.002
9:112204335_AT_A	AT	0.01	0.002	A	-0.01	0.002
9:123780856_AAAGGAAGG_A	AAAGGAAG G	0.008	0.001	A	-0.008	0.001
9:125949547_TA_T	TA	0.016	0.004	T	-0.016	0.004
9:19084633_CT_C	C	0.009	0.001	CT	-0.009	0.001
rs10027275	G	0.013	0.001	C	-0.013	0.001
rs1005421	C	0.006	0.001	T	-0.006	0.001
rs10069690	C	0.007	0.001	T	-0.007	0.001
rs10083137	A	0.02	0.003	G	-0.02	0.003
rs10107182	T	0.012	0.001	C	-0.012	0.001
rs10116426	C	0.009	0.001	A	-0.009	0.001
rs10153800	A	0.007	0.001	G	-0.007	0.001

rs1037169	T	0.012	0.001	C	-0.012	0.001
rs10411958	C	0.007	0.001	T	-0.007	0.001
rs10421262	T	0.011	0.001	G	-0.011	0.001
rs1058319	T	0.009	0.002	C	-0.009	0.002
rs10649697	T	0.009	0.001	TAGA	-0.009	0.001
rs10657979	C	0.016	0.001	CCTT	-0.016	0.001
rs10822153	A	0.064	0.001	C	-0.064	0.001
rs10864086	C	0.015	0.001	A	-0.015	0.001
rs10868080	T	0.021	0.001	A	-0.021	0.001
rs10871794	A	0.006	0.001	G	-0.006	0.001
rs10895277	A	0.01	0.001	G	-0.01	0.001
rs11111274	G	0.007	0.001	A	-0.007	0.001
rs111643014	A	0.024	0.004	G	-0.024	0.004
rs111767734	T	0.032	0.006	G	-0.032	0.006
rs111917063	C	0.019	0.004	G	-0.019	0.004
rs111981233	G	0.026	0.002	T	-0.026	0.002
rs112352679	T	0.01	0.002	C	-0.01	0.002
rs112965849	A	0.009	0.002	AT	-0.009	0.002
rs11398692	C	0.006	0.001	CT	-0.006	0.001
rs114165349	G	0.087	0.004	C	-0.087	0.004
rs11419346	C	0.006	0.002	CT	-0.006	0.002
rs114949263	C	0.019	0.002	T	-0.019	0.002
rs11539938	C	0.01	0.001	T	-0.01	0.001
rs11601507	A	0.016	0.002	C	-0.016	0.002
rs11621792	C	0.013	0.001	T	-0.013	0.001
rs116338429	T	0.01	0.002	C	-0.01	0.002
rs11641834	C	0.012	0.001	T	-0.012	0.001
rs116483731	A	0.05	0.007	G	-0.05	0.007
rs11655704	C	0.031	0.001	T	-0.031	0.001
rs11666245	G	0.016	0.003	A	-0.016	0.003
rs11732763	A	0.012	0.002	G	-0.012	0.002
rs11734408	G	0.008	0.001	A	-0.008	0.001
rs11739158	T	0.008	0.001	C	-0.008	0.001
rs11743810	T	0.009	0.001	C	-0.009	0.001
rs11751920	C	0.023	0.004	G	-0.023	0.004
rs11856926	G	0.012	0.001	A	-0.012	0.001
rs11867902	G	0.021	0.004	A	-0.021	0.004
rs11994858	G	0.011	0.001	A	-0.011	0.001
rs12059956	G	0.008	0.001	A	-0.008	0.001
rs1229492	T	0.011	0.001	C	-0.011	0.001
rs12364060	T	0.008	0.001	C	-0.008	0.001
rs12454712	C	0.006	0.001	T	-0.006	0.001
rs12536766	T	0.005	0.001	G	-0.005	0.001

rs12543287	C	0.011	0.001	G	-0.011	0.001
rs1260326	C	0.038	0.001	T	-0.038	0.001
rs12690320	G	0.005	0.001	A	-0.005	0.001
rs12694450	T	0.007	0.001	C	-0.007	0.001
rs12696304	G	0.008	0.001	C	-0.008	0.001
rs12705095	G	0.017	0.002	T	-0.017	0.002
rs12797706	A	0.012	0.001	G	-0.012	0.001
rs12818938	T	0.009	0.002	G	-0.009	0.002
rs12928099	A	0.009	0.001	C	-0.009	0.001
rs12950562	T	0.011	0.001	C	-0.011	0.001
rs13042148	C	0.012	0.002	T	-0.012	0.002
rs13108218	A	0.023	0.001	G	-0.023	0.001
rs13280055	G	0.008	0.002	A	-0.008	0.002
rs13315174	G	0.007	0.001	A	-0.007	0.001
rs13379043	C	0.008	0.001	T	-0.008	0.001
rs13389219	T	0.011	0.001	C	-0.011	0.001
rs1349852	C	0.02	0.001	A	-0.02	0.001
rs1351394	T	0.007	0.001	C	-0.007	0.001
rs138529890	A	0.025	0.003	G	-0.025	0.003
rs139974673	T	0.074	0.004	C	-0.074	0.004
rs140386498	T	0.032	0.005	A	-0.032	0.005
rs140584594	A	0.012	0.001	G	-0.012	0.001
rs141811210	GTAA	0.007	0.001	G	-0.007	0.001
rs1418334	G	0.04	0.001	A	-0.04	0.001
rs142627977	C	0.012	0.001	CAAGT	-0.012	0.001
rs142740991	C	0.008	0.001	CA	-0.008	0.001
rs143709973	A	0.014	0.003	C	-0.014	0.003
rs144647926	A	0.012	0.002	G	-0.012	0.002
rs144794875	G	0.01	0.002	A	-0.01	0.002
rs148082013	G	0.054	0.01	C	-0.054	0.01
rs148427769	G	0.014	0.003	C	-0.014	0.003
rs148911629	G	0.044	0.006	C	-0.044	0.006
rs149624078	C	0.098	0.005	T	-0.098	0.005
rs149663666	T	0.047	0.007	C	-0.047	0.007
rs149675684	G	0.079	0.013	A	-0.079	0.013
rs1567353	C	0.006	0.001	G	-0.006	0.001
rs1570516	T	0.006	0.001	C	-0.006	0.001
rs157935	G	0.012	0.001	T	-0.012	0.001
rs1640267	C	0.017	0.001	T	-0.017	0.001
rs17036326	G	0.017	0.002	A	-0.017	0.002
rs17050272	A	0.006	0.001	G	-0.006	0.001
rs17145750	T	0.011	0.002	C	-0.011	0.002
rs17185536	T	0.005	0.001	C	-0.005	0.001

rs1730865	G	0.026	0.001	T	-0.026	0.001
rs174528	T	0.008	0.001	C	-0.008	0.001
rs17583875	A	0.024	0.004	G	-0.024	0.004
rs17669311	G	0.01	0.001	A	-0.01	0.001
rs17747324	T	0.006	0.001	C	-0.006	0.001
rs1782652	T	0.013	0.001	A	-0.013	0.001
rs1788641	A	0.007	0.001	G	-0.007	0.001
rs1799831	C	0.009	0.002	T	-0.009	0.002
rs1799941	A	0.121	0.001	G	-0.121	0.001
rs1801689	A	0.033	0.004	C	-0.033	0.004
rs180956060	G	0.013	0.002	A	-0.013	0.002
rs184640919	G	0.096	0.019	A	-0.096	0.019
rs185073832	C	0.106	0.017	A	-0.106	0.017
rs1859690	G	0.015	0.002	A	-0.015	0.002
rs186915841	C	0.094	0.015	T	-0.094	0.015
rs1870927	A	0.006	0.001	T	-0.006	0.001
rs1871395	A	0.033	0.002	G	-0.033	0.002
rs187325356	A	0.065	0.007	T	-0.065	0.007
rs187437	G	0.008	0.001	A	-0.008	0.001
rs1883783	T	0.006	0.001	G	-0.006	0.001
rs1890426	C	0.007	0.001	T	-0.007	0.001
rs190712692	A	0.014	0.003	G	-0.014	0.003
rs191591035	G	0.102	0.014	C	-0.102	0.014
rs191884522	C	0.13	0.015	T	-0.13	0.015
rs198384	A	0.007	0.001	G	-0.007	0.001
rs1991401	G	0.007	0.001	A	-0.007	0.001
rs199910997	A	0.01	0.001	G	-0.01	0.001
rs200138078	C	0.007	0.001	T	-0.007	0.001
rs2002094	C	0.012	0.002	A	-0.012	0.002
rs200883214	G	0.006	0.001	GT	-0.006	0.001
rs201764793	TTTC	0.009	0.001	T	-0.009	0.001
rs202128511	T	0.013	0.001	TTG	-0.013	0.001
rs202200760	C	0.071	0.003	G	-0.071	0.003
rs2106727	G	0.005	0.001	A	-0.005	0.001
rs2106854	T	0.008	0.002	C	-0.008	0.002
rs211644	C	0.006	0.001	T	-0.006	0.001
rs2156805	G	0.005	0.001	A	-0.005	0.001
rs2197771	G	0.006	0.001	T	-0.006	0.001
rs2216707	C	0.008	0.002	T	-0.008	0.002
rs2222018	C	0.013	0.001	A	-0.013	0.001
rs2234694	A	0.013	0.003	C	-0.013	0.003
rs2238799	G	0.007	0.001	A	-0.007	0.001
rs2239222	G	0.011	0.001	A	-0.011	0.001

rs2247213	G	0.014	0.001	A	-0.014	0.001
rs2259305	G	0.012	0.001	A	-0.012	0.001
rs2275560	G	0.007	0.002	A	-0.007	0.002
rs2277283	C	0.008	0.001	T	-0.008	0.001
rs2283760	C	0.005	0.001	T	-0.005	0.001
rs2287322	G	0.019	0.001	A	-0.019	0.001
rs2288004	G	0.007	0.001	C	-0.007	0.001
rs234051	A	0.008	0.001	G	-0.008	0.001
rs2431752	A	0.01	0.002	G	-0.01	0.002
rs246192	G	0.009	0.001	C	-0.009	0.001
rs2564923	A	0.008	0.001	G	-0.008	0.001
rs2721195	T	0.011	0.001	C	-0.011	0.001
rs2820441	C	0.007	0.001	A	-0.007	0.001
rs28507491	A	0.014	0.001	G	-0.014	0.001
rs28562483	G	0.011	0.002	T	-0.011	0.002
rs28650012	G	0.007	0.001	C	-0.007	0.001
rs28929474	T	0.138	0.004	C	-0.138	0.004
rs2905801	T	0.014	0.001	C	-0.014	0.001
rs29681	T	0.009	0.002	C	-0.009	0.002
rs3006593	C	0.008	0.001	G	-0.008	0.001
rs329122	G	0.006	0.001	A	-0.006	0.001
rs34006916	G	0.017	0.003	A	-0.017	0.003
rs34255979	T	0.027	0.002	C	-0.027	0.002
rs34372369	A	0.022	0.003	G	-0.022	0.003
rs34390319	C	0.015	0.002	T	-0.015	0.002
rs34651	T	0.01	0.002	C	-0.01	0.002
rs34771269	CT	0.012	0.001	C	-0.012	0.001
rs35067979	C	0.017	0.002	T	-0.017	0.002
rs35225944	T	0.01	0.001	TA	-0.01	0.001
rs35234337	C	0.008	0.001	T	-0.008	0.001
rs35526088	T	0.007	0.001	G	-0.007	0.001
rs35654957	T	0.008	0.001	C	-0.008	0.001
rs35824797	C	0.016	0.002	T	-0.016	0.002
rs36013981	A	0.007	0.001	G	-0.007	0.001
rs36086195	T	0.017	0.001	C	-0.017	0.001
rs36103835	T	0.008	0.001	C	-0.008	0.001
rs36108764	G	0.01	0.002	A	-0.01	0.002
rs370654105	C	0.007	0.001	CT	-0.007	0.001
rs3742366	C	0.009	0.001	T	-0.009	0.001
rs3746575	G	0.017	0.001	C	-0.017	0.001
rs3747647	C	0.008	0.002	G	-0.008	0.002
rs3780190	G	0.013	0.001	A	-0.013	0.001
rs3781085	T	0.006	0.001	G	-0.006	0.001

rs3782735	A	0.007	0.001	G	-0.007	0.001
rs3795128	C	0.01	0.001	T	-0.01	0.001
rs3812275	C	0.007	0.001	A	-0.007	0.001
rs3927496	A	0.01	0.001	T	-0.01	0.001
rs40270	A	0.014	0.001	C	-0.014	0.001
rs4077285	G	0.012	0.002	C	-0.012	0.002
rs41284816	T	0.02	0.005	G	-0.02	0.005
rs41412647	C	0.01	0.001	A	-0.01	0.001
rs4333851	A	0.008	0.002	G	-0.008	0.002
rs445	C	0.014	0.002	T	-0.014	0.002
rs45490496	A	0.009	0.001	T	-0.009	0.001
rs45512696	T	0.021	0.002	C	-0.021	0.002
rs4645936	G	0.015	0.003	A	-0.015	0.003
rs4673528	C	0.006	0.001	T	-0.006	0.001
rs4675682	T	0.009	0.001	C	-0.009	0.001
rs4714001	G	0.005	0.001	A	-0.005	0.001
rs4715316	T	0.009	0.001	C	-0.009	0.001
rs4725944	C	0.009	0.001	G	-0.009	0.001
rs4762755	T	0.007	0.001	C	-0.007	0.001
rs4782568	G	0.015	0.001	C	-0.015	0.001
rs4809604	T	0.006	0.001	G	-0.006	0.001
rs4812336	A	0.008	0.001	G	-0.008	0.001
rs4841133	G	0.022	0.002	A	-0.022	0.002
rs4860987	T	0.03	0.001	A	-0.03	0.001
rs4979372	C	0.013	0.001	T	-0.013	0.001
rs4988308	G	0.005	0.001	A	-0.005	0.001
rs501470	G	0.015	0.001	T	-0.015	0.001
rs528350911	C	0.042	0.008	G	-0.042	0.008
rs540730	T	0.018	0.001	C	-0.018	0.001
rs549677458	A	0.1	0.018	G	-0.1	0.018
rs55646464	G	0.007	0.001	T	-0.007	0.001
rs55855238	C	0.009	0.001	T	-0.009	0.001
rs55962409	C	0.008	0.001	A	-0.008	0.001
rs56187480	G	0.013	0.001	A	-0.013	0.001
rs56196860	A	0.022	0.004	C	-0.022	0.004
rs56237852	C	0.007	0.002	A	-0.007	0.002
rs562609617	GT	0.011	0.001	G	-0.011	0.001
rs56332871	A	0.03	0.001	C	-0.03	0.001
rs565471584	T	0.078	0.012	C	-0.078	0.012
rs565728741	C	0.012	0.002	CA	-0.012	0.002
rs5749082	T	0.009	0.001	A	-0.009	0.001
rs58321169	C	0.008	0.001	T	-0.008	0.001
rs591939	A	0.009	0.001	G	-0.009	0.001

rs59708846	A	0.019	0.002	G	-0.019	0.002
rs60005573	GGATTAT	0.008	0.002	G	-0.008	0.002
rs60018147	G	0.013	0.002	A	-0.013	0.002
rs6005840	A	0.017	0.001	G	-0.017	0.001
rs61755050	T	0.129	0.008	C	-0.129	0.008
rs61929307	G	0.007	0.001	T	-0.007	0.001
rs62012358	G	0.007	0.001	A	-0.007	0.001
rs62134282	T	0.007	0.001	C	-0.007	0.001
rs62182125	G	0.006	0.001	A	-0.006	0.001
rs62195072	C	0.008	0.001	T	-0.008	0.001
rs62394490	T	0.011	0.001	A	-0.011	0.001
rs62442919	A	0.007	0.001	G	-0.007	0.001
rs6258	C	0.61	0.007	T	-0.61	0.007
rs62580766	T	0.01	0.002	C	-0.01	0.002
rs62618693	T	0.019	0.003	C	-0.019	0.003
rs631695	T	0.017	0.001	G	-0.017	0.001
rs6480299	C	0.011	0.001	G	-0.011	0.001
rs6595447	T	0.008	0.002	C	-0.008	0.002
rs6632893	A	0.006	0.001	C	-0.006	0.001
rs665731	T	0.007	0.002	C	-0.007	0.002
rs6736913	A	0.033	0.004	G	-0.033	0.004
rs6750410	A	0.018	0.002	G	-0.018	0.002
rs67527887	T	0.007	0.001	C	-0.007	0.001
rs6792725	G	0.012	0.001	A	-0.012	0.001
rs6831352	T	0.02	0.001	C	-0.02	0.001
rs687339	C	0.028	0.001	T	-0.028	0.001
rs6900473	A	0.009	0.001	G	-0.009	0.001
rs6939861	G	0.011	0.001	A	-0.011	0.001
rs6950023	G	0.032	0.002	T	-0.032	0.002
rs6965401	G	0.014	0.003	A	-0.014	0.003
rs7096937	T	0.009	0.001	C	-0.009	0.001
rs71115649	A	0.008	0.001	AC	-0.008	0.001
rs71584764	TA	0.01	0.002	T	-0.01	0.002
rs71586027	TATCTC	0.01	0.001	T	-0.01	0.001
rs7175361	A	0.009	0.002	G	-0.009	0.002
rs7210574	C	0.01	0.001	T	-0.01	0.001
rs7254776	C	0.005	0.001	T	-0.005	0.001
rs72663907	T	0.012	0.002	G	-0.012	0.002
rs72683923	C	0.034	0.004	T	-0.034	0.004
rs72708162	T	0.016	0.002	G	-0.016	0.002
rs72729610	A	0.01	0.002	G	-0.01	0.002
rs72753908	C	0.011	0.002	T	-0.011	0.002
rs7286550	G	0.008	0.001	A	-0.008	0.001

rs72948115	C	0.012	0.002	T	-0.012	0.002
rs73109480	T	0.014	0.002	C	-0.014	0.002
rs7314285	G	0.03	0.002	T	-0.03	0.002
rs73266316	T	0.013	0.002	C	-0.013	0.002
rs73547906	C	0.006	0.001	T	-0.006	0.001
rs73631501	T	0.011	0.001	C	-0.011	0.001
rs738409	G	0.031	0.001	C	-0.031	0.001
rs73909848	G	0.014	0.002	A	-0.014	0.002
rs7438888	C	0.071	0.009	T	-0.071	0.009
rs749761903	A	0.008	0.001	AT	-0.008	0.001
rs75130744	G	0.03	0.002	C	-0.03	0.002
rs75170914	T	0.012	0.001	C	-0.012	0.001
rs75349541	C	0.009	0.002	T	-0.009	0.002
rs753645751	G	0.009	0.002	GA	-0.009	0.002
rs7540115	C	0.009	0.002	A	-0.009	0.002
rs754959778	CGT	0.005	0.001	C	-0.005	0.001
rs757253787	T	0.008	0.001	TC	-0.008	0.001
rs7623513	C	0.009	0.002	A	-0.009	0.002
rs762450647	CT	0.007	0.001	C	-0.007	0.001
rs7631981	G	0.007	0.001	A	-0.007	0.001
rs7655064	T	0.008	0.002	C	-0.008	0.002
rs768159759	A	0.013	0.002	AG	-0.013	0.002
rs768651403	GT	0.008	0.001	G	-0.008	0.001
rs76895963	G	0.055	0.005	T	-0.055	0.005
rs7694379	G	0.021	0.001	A	-0.021	0.001
rs769447487	T	0.011	0.001	TTA	-0.011	0.001
rs771193934	AGGCATGCTGCCAAGAAT	0.006	0.001	A	-0.006	0.001
rs771435780	G	0.012	0.001	GGA	-0.012	0.001
rs7735249	C	0.018	0.002	G	-0.018	0.002
rs773816354	TAACAGGAGTTAAAAGTGTCG	0.012	0.001	T	-0.012	0.001
rs775181992	A	0.01	0.001	AGCCCT	-0.01	0.001
rs7780562	C	0.008	0.002	A	-0.008	0.002
rs778239811	T	0.006	0.001	TAC	-0.006	0.001
rs778571122	GTGTTTTTTTGTTTTTTG	0.01	0.001	G	-0.01	0.001
rs780309846	AAAAAAC	0.005	0.001	A	-0.005	0.001
rs7808613	C	0.008	0.001	G	-0.008	0.001
rs78319058	T	0.025	0.004	C	-0.025	0.004
rs78444298	G	0.026	0.004	A	-0.026	0.004
rs78890745	A	0.014	0.002	G	-0.014	0.002
rs7892835	G	0.008	0.001	A	-0.008	0.001

rs79287178	G	0.04	0.004	A	-0.04	0.004
rs79354983	A	0.016	0.002	G	-0.016	0.002
rs79717793	G	0.025	0.002	A	-0.025	0.002
rs8030357	G	0.01	0.001	T	-0.01	0.001
rs8038032	G	0.011	0.001	A	-0.011	0.001
rs8038465	T	0.006	0.001	C	-0.006	0.001
rs8066941	T	0.015	0.001	G	-0.015	0.001
rs8176526	C	0.006	0.001	T	-0.006	0.001
rs820503	C	0.011	0.002	A	-0.011	0.002
rs856534	A	0.01	0.001	G	-0.01	0.001
rs860262	A	0.01	0.001	C	-0.01	0.001
rs864899	A	0.009	0.001	G	-0.009	0.001
rs876435	G	0.008	0.001	A	-0.008	0.001
rs904801	A	0.01	0.001	G	-0.01	0.001
rs907866	G	0.008	0.001	A	-0.008	0.001
rs9266184	T	0.01	0.001	G	-0.01	0.001
rs9379084	G	0.015	0.002	A	-0.015	0.002
rs9697210	G	0.019	0.002	A	-0.019	0.002
rs9738226	G	0.019	0.001	A	-0.019	0.001
rs9914426	G	0.008	0.001	C	-0.008	0.001
rs997907	C	0.008	0.001	A	-0.008	0.001
X:133611871_AT_A	A	0.009	0.001	AT	-0.009	0.001

Supplemental Table 2. Genetic predictors for SHBG in women

SNP	Allele increasing SHBG			Allele decreasing SHBG		
	Allele	Association with SHBG	SE	Allele	Association with SHBG	SE
1:155867257_CAA_C	C	0.009	0.002	CAA	-0.009	0.002
1:221048577_TGA_T	T	0.009	0.002	TGA	-0.009	0.002
1:23747996_GA_G	G	0.011	0.002	GA	-0.011	0.002
1:57170378_AATC_A	A	0.011	0.002	AATC	-0.011	0.002
1:93787087_TA_T	T	0.009	0.002	TA	-0.009	0.002
10:65158772_AAAG_A	A	0.047	0.001	AAAG	-0.047	0.001
12:103483327_AT_A	AT	0.026	0.001	A	-0.026	0.001
12:12562340_GT_G	G	0.01	0.002	GT	-0.01	0.002
12:26614614_CAT_C	C	0.01	0.002	CAT	-0.01	0.002
13:50565104_ACT_A	A	0.038	0.005	ACT	-0.038	0.005
15:43025006_CT_C	CT	0.117	0.018	C	-0.117	0.018
15:51052455_CT_C	C	0.008	0.002	CT	-0.008	0.002
15:53094375_TTTTG_T	TTTTG	0.028	0.002	T	-0.028	0.002
17:48627860_CCT_C	C	0.009	0.002	CCT	-0.009	0.002
19:7223973_TTTG_T	TTTG	0.018	0.001	T	-0.018	0.001
2:191559843_GT_G	GT	0.011	0.002	G	-0.011	0.002
2:208469213_ATCTT_A	ATCTT	0.012	0.002	A	-0.012	0.002
3:122361173_TTTTTC_T	TTTTTC	0.01	0.002	T	-0.01	0.002
4:103877471_TA_T	T	0.009	0.001	TA	-0.009	0.001
6:130386212_GGAGA_G	GGAGA	0.009	0.002	G	-0.009	0.002
7:130438531_CTTTTTT_C	C	0.01	0.001	CTTTTTT	-0.01	0.001
8:59415339_TTG_T	T	0.011	0.001	TTG	-0.011	0.001
8:81457499_CA_C	C	0.026	0.002	CA	-0.026	0.002
9:127474886_CA_C	CA	0.007	0.001	C	-0.007	0.001
rs1005421	C	0.009	0.001	T	-0.009	0.001
rs10095380	G	0.01	0.002	C	-0.01	0.002
rs10095930	C	0.011	0.001	T	-0.011	0.001
rs10108150	A	0.008	0.001	G	-0.008	0.001
rs10153315	T	0.009	0.001	C	-0.009	0.001
rs10189479	A	0.007	0.001	C	-0.007	0.001
rs10238028	G	0.019	0.003	A	-0.019	0.003
rs1033667	T	0.011	0.002	C	-0.011	0.002
rs1037169	T	0.015	0.002	C	-0.015	0.002
rs10461018	T	0.01	0.001	C	-0.01	0.001
rs1047891	A	0.014	0.002	C	-0.014	0.002
rs10486782	A	0.007	0.002	G	-0.007	0.002
rs10489206	C	0.009	0.002	T	-0.009	0.002
rs10511002	A	0.008	0.002	C	-0.008	0.002
rs10622246	ATTTT	0.01	0.001	A	-0.01	0.001

rs10747689	T	0.006	0.001	C	-0.006	0.001
rs10774095	A	0.007	0.002	G	-0.007	0.002
rs10815276	G	0.009	0.001	A	-0.009	0.001
rs10857228	T	0.009	0.002	C	-0.009	0.002
rs10880868	C	0.008	0.002	T	-0.008	0.002
rs10883451	C	0.009	0.001	T	-0.009	0.001
rs10893876	C	0.009	0.002	T	-0.009	0.002
rs10939934	A	0.007	0.001	G	-0.007	0.001
rs10961205	A	0.007	0.001	G	-0.007	0.001
rs11021232	T	0.013	0.002	C	-0.013	0.002
rs11047237	A	0.03	0.004	T	-0.03	0.004
rs11054861	A	0.022	0.004	G	-0.022	0.004
rs11078597	C	0.017	0.002	T	-0.017	0.002
rs11079685	A	0.008	0.001	G	-0.008	0.001
rs11103377	G	0.008	0.001	A	-0.008	0.001
rs111270317	CGTGT	0.009	0.002	C	-0.009	0.002
rs111288118	C	0.013	0.002	CTT	-0.013	0.002
rs11130982	T	0.007	0.002	G	-0.007	0.002
rs11186719	A	0.012	0.001	C	-0.012	0.001
rs11188601	C	0.01	0.001	T	-0.01	0.001
rs112332688	A	0.008	0.002	G	-0.008	0.002
rs1126161	G	0.007	0.002	A	-0.007	0.002
rs1128249	T	0.017	0.001	G	-0.017	0.001
rs112966033	TACACAC	0.016	0.001	T	-0.016	0.001
rs113408476	A	0.012	0.002	ACTTTTT C	-0.012	0.002
rs11376788	AC	0.008	0.002	A	-0.008	0.002
rs114165349	G	0.07	0.005	C	-0.07	0.005
rs114816312	T	0.082	0.008	C	-0.082	0.008
rs114949263	C	0.015	0.002	T	-0.015	0.002
rs115209326	T	0.076	0.012	C	-0.076	0.012
rs11539938	C	0.009	0.001	T	-0.009	0.001
rs11556924	T	0.012	0.001	C	-0.012	0.001
rs11601507	A	0.016	0.003	C	-0.016	0.003
rs11621792	C	0.025	0.001	T	-0.025	0.001
rs116279971	C	0.041	0.007	T	-0.041	0.007
rs11637595	C	0.009	0.002	T	-0.009	0.002
rs11641834	C	0.011	0.001	T	-0.011	0.001
rs11664106	T	0.006	0.002	A	-0.006	0.002
rs11666245	G	0.017	0.003	A	-0.017	0.003
rs11668201	T	0.009	0.002	A	-0.009	0.002
rs11688682	C	0.009	0.002	G	-0.009	0.002
rs11690748	C	0.007	0.001	G	-0.007	0.001

rs11720108	T	0.007	0.002	C	-0.007	0.002
rs11738093	A	0.012	0.002	G	-0.012	0.002
rs117522510	A	0.05	0.01	G	-0.05	0.01
rs11774700	C	0.006	0.002	T	-0.006	0.002
rs11780978	A	0.008	0.001	G	-0.008	0.001
rs11791747	G	0.011	0.002	A	-0.011	0.002
rs11830764	C	0.04	0.003	G	-0.04	0.003
rs11967262	C	0.009	0.001	G	-0.009	0.001
rs12012896	A	0.025	0.001	G	-0.025	0.001
rs12138803	C	0.008	0.002	T	-0.008	0.002
rs1223796	G	0.013	0.002	C	-0.013	0.002
rs12280075	G	0.008	0.002	T	-0.008	0.002
rs1229498	T	0.011	0.002	G	-0.011	0.002
rs12311848	G	0.011	0.002	A	-0.011	0.002
rs12438742	G	0.008	0.001	C	-0.008	0.001
rs12454712	C	0.008	0.001	T	-0.008	0.001
rs12543287	C	0.011	0.001	G	-0.011	0.001
rs12593818	T	0.01	0.002	C	-0.01	0.002
rs1260326	C	0.034	0.001	T	-0.034	0.001
rs12613243	T	0.015	0.003	C	-0.015	0.003
rs12624244	A	0.021	0.003	G	-0.021	0.003
rs12787996	C	0.007	0.002	A	-0.007	0.002
rs12797706	A	0.014	0.002	G	-0.014	0.002
rs12804411	T	0.015	0.002	C	-0.015	0.002
rs12864658	T	0.015	0.003	C	-0.015	0.003
rs12906447	C	0.009	0.001	T	-0.009	0.001
rs13018007	G	0.012	0.003	A	-0.012	0.003
rs13042148	C	0.014	0.002	T	-0.014	0.002
rs13108218	A	0.022	0.001	G	-0.022	0.001
rs13150068	A	0.017	0.001	G	-0.017	0.001
rs13200245	A	0.008	0.002	G	-0.008	0.002
rs13237750	C	0.017	0.003	T	-0.017	0.003
rs1330307	A	0.009	0.001	C	-0.009	0.001
rs13303359	C	0.007	0.001	A	-0.007	0.001
rs13379043	C	0.01	0.002	T	-0.01	0.002
rs13394092	C	0.008	0.002	T	-0.008	0.002
rs138204164	C	0.011	0.002	G	-0.011	0.002
rs139974673	T	0.048	0.004	C	-0.048	0.004
rs140302625	T	0.067	0.002	G	-0.067	0.002
rs140312320	G	0.016	0.003	A	-0.016	0.003
rs140584594	A	0.015	0.002	G	-0.015	0.002
rs1418652	C	0.007	0.001	T	-0.007	0.001
rs1433210	C	0.008	0.002	A	-0.008	0.002

rs143378550	A	0.02	0.005	C	-0.02	0.005
rs144293483	AC	0.014	0.003	A	-0.014	0.003
rs146104952	CCAAAAAATA	0.011	0.002	C	-0.011	0.002
rs147153202	G	0.013	0.002	GA	-0.013	0.002
rs148911629	G	0.041	0.007	C	-0.041	0.007
rs150115323	G	0.005	0.001	C	-0.005	0.001
rs150584036	TAC	0.009	0.002	T	-0.009	0.002
rs1530439	T	0.012	0.002	G	-0.012	0.002
rs1634791	A	0.01	0.001	G	-0.01	0.001
rs1650527	C	0.011	0.002	T	-0.011	0.002
rs1684608	C	0.009	0.002	A	-0.009	0.002
rs16995626	C	0.017	0.003	T	-0.017	0.003
rs17128091	C	0.012	0.002	G	-0.012	0.002
rs17202341	G	0.008	0.001	A	-0.008	0.001
rs1730862	G	0.021	0.001	A	-0.021	0.001
rs1738386	C	0.009	0.001	T	-0.009	0.001
rs1741344	T	0.007	0.001	C	-0.007	0.001
rs174537	G	0.014	0.001	T	-0.014	0.001
rs17492269	G	0.009	0.002	A	-0.009	0.002
rs17580	A	0.023	0.003	T	-0.023	0.003
rs17583875	A	0.027	0.005	G	-0.027	0.005
rs17616365	G	0.026	0.004	A	-0.026	0.004
rs17669311	G	0.009	0.001	A	-0.009	0.001
rs1782652	T	0.012	0.001	A	-0.012	0.001
rs17887160	C	0.009	0.002	T	-0.009	0.002
rs1801282	G	0.02	0.002	C	-0.02	0.002
rs183015141	G	0.029	0.005	A	-0.029	0.005
rs185044544	T	0.021	0.005	G	-0.021	0.005
rs1870927	A	0.008	0.001	T	-0.008	0.001
rs1872992	A	0.006	0.002	G	-0.006	0.002
rs191591035	G	0.113	0.017	C	-0.113	0.017
rs1962883	C	0.006	0.001	T	-0.006	0.001
rs198358	C	0.006	0.002	T	-0.006	0.002
rs199607859	T	0.01	0.001	G	-0.01	0.001
rs2009310	T	0.006	0.001	G	-0.006	0.001
rs201468966	C	0.016	0.002	CA	-0.016	0.002
rs2018519	C	0.019	0.002	T	-0.019	0.002
rs201874554	A	0.015	0.003	ACC	-0.015	0.003
rs202021413	TA	0.01	0.001	T	-0.01	0.001
rs202200760	C	0.079	0.004	G	-0.079	0.004
rs2057655	A	0.009	0.002	G	-0.009	0.002
rs2064074	A	0.008	0.001	G	-0.008	0.001
rs2068888	A	0.011	0.001	G	-0.011	0.001

rs2176040	A	0.015	0.001	G	-0.015	0.001
rs2207132	G	0.023	0.004	A	-0.023	0.004
rs2239222	G	0.009	0.002	A	-0.009	0.002
rs2246223	T	0.007	0.001	C	-0.007	0.001
rs2288926	A	0.005	0.002	G	-0.005	0.002
rs2299055	A	0.009	0.002	G	-0.009	0.002
rs2364717	T	0.007	0.001	C	-0.007	0.001
rs2438109	C	0.008	0.002	T	-0.008	0.002
rs2498786	C	0.013	0.001	G	-0.013	0.001
rs2525570	G	0.009	0.001	A	-0.009	0.001
rs267733	A	0.014	0.002	G	-0.014	0.002
rs2723555	T	0.006	0.001	A	-0.006	0.001
rs275177	C	0.009	0.002	T	-0.009	0.002
rs28360642	A	0.02	0.002	C	-0.02	0.002
rs28459049	C	0.007	0.002	T	-0.007	0.002
rs28636815	G	0.011	0.001	A	-0.011	0.001
rs28712547	G	0.01	0.002	A	-0.01	0.002
rs28925904	C	0.028	0.005	T	-0.028	0.005
rs28929470	A	0.054	0.011	G	-0.054	0.011
rs28929474	T	0.063	0.005	C	-0.063	0.005
rs2915023	G	0.01	0.002	A	-0.01	0.002
rs2924808	C	0.007	0.001	G	-0.007	0.001
rs2925979	C	0.013	0.002	T	-0.013	0.002
rs2970871	T	0.008	0.001	C	-0.008	0.001
rs2980858	C	0.008	0.002	T	-0.008	0.002
rs2986669	A	0.009	0.002	G	-0.009	0.002
rs3001032	C	0.012	0.002	T	-0.012	0.002
rs3018695	A	0.008	0.001	C	-0.008	0.001
rs34154818	A	0.009	0.001	AT	-0.009	0.001
rs34184867	C	0.008	0.001	G	-0.008	0.001
rs34255979	T	0.027	0.002	C	-0.027	0.002
rs34311866	T	0.01	0.002	C	-0.01	0.002
rs34331968	T	0.012	0.001	C	-0.012	0.001
rs34385891	AT	0.008	0.001	A	-0.008	0.001
rs34499031	T	0.009	0.002	TAA	-0.009	0.002
rs34651	T	0.009	0.003	C	-0.009	0.003
rs35143646	T	0.008	0.002	C	-0.008	0.002
rs35198068	T	0.008	0.002	C	-0.008	0.002
rs35233014	C	0.014	0.002	A	-0.014	0.002
rs35475471	CAT	0.008	0.002	C	-0.008	0.002
rs35568851	CT	0.008	0.001	C	-0.008	0.001
rs35696875	TCA	0.011	0.002	T	-0.011	0.002
rs3733321	T	0.007	0.001	G	-0.007	0.001

rs3747207	A	0.019	0.002	G	-0.019	0.002
rs3747367	A	0.007	0.002	C	-0.007	0.002
rs3749228	C	0.013	0.003	G	-0.013	0.003
rs3751129	A	0.01	0.002	G	-0.01	0.002
rs3768420	C	0.008	0.002	T	-0.008	0.002
rs3782735	A	0.011	0.001	G	-0.011	0.001
rs390408	A	0.015	0.002	G	-0.015	0.002
rs40270	A	0.019	0.002	C	-0.019	0.002
rs4077285	G	0.014	0.002	C	-0.014	0.002
rs4092465	G	0.011	0.001	A	-0.011	0.001
rs4122352	A	0.011	0.002	G	-0.011	0.002
rs41280463	G	0.01	0.002	A	-0.01	0.002
rs4149056	T	0.027	0.002	C	-0.027	0.002
rs4264433	T	0.019	0.001	A	-0.019	0.001
rs4307773	T	0.013	0.001	C	-0.013	0.001
rs4327143	A	0.008	0.002	G	-0.008	0.002
rs4450871	G	0.008	0.001	A	-0.008	0.001
rs4530527	C	0.008	0.001	A	-0.008	0.001
rs4563785	G	0.014	0.003	T	-0.014	0.003
rs469721	C	0.013	0.002	T	-0.013	0.002
rs4709746	T	0.009	0.002	C	-0.009	0.002
rs4804669	A	0.009	0.002	G	-0.009	0.002
rs4810580	T	0.01	0.002	G	-0.01	0.002
rs4830411	G	0.008	0.001	A	-0.008	0.001
rs4837794	T	0.012	0.002	C	-0.012	0.002
rs4871015	A	0.007	0.001	G	-0.007	0.001
rs4876993	T	0.008	0.001	C	-0.008	0.001
rs4976033	A	0.009	0.001	G	-0.009	0.001
rs5112	G	0.009	0.002	C	-0.009	0.002
rs5117	C	0.012	0.002	T	-0.012	0.002
rs528350911	C	0.058	0.01	G	-0.058	0.01
rs528806375	A	0.009	0.001	AT	-0.009	0.001
rs545206972	C	0.69	0.009	T	-0.69	0.009
rs548235873	ATTT	0.007	0.002	A	-0.007	0.002
rs549664712	C	0.013	0.002	CA	-0.013	0.002
rs550767741	ATTTTTTTTTT TTTTTTTTTT TTTTTTTTTT	0.022	0.002	A	-0.022	0.002
rs555234816	T	0.017	0.003	TA	-0.017	0.003
rs555754	A	0.016	0.001	G	-0.016	0.001
rs560436873	A	0.119	0.018	T	-0.119	0.018
rs56332871	A	0.038	0.002	C	-0.038	0.002
rs568656	C	0.011	0.002	A	-0.011	0.002
rs57158761	A	0.007	0.001	G	-0.007	0.001

rs5750131	G	0.006	0.001	A	-0.006	0.001
rs5753111	T	0.014	0.002	C	-0.014	0.002
rs5791099	TA	0.006	0.002	T	-0.006	0.002
rs5813220	G	0.013	0.002	GT	-0.013	0.002
rs5820605	CT	0.007	0.001	C	-0.007	0.001
rs58321169	C	0.008	0.002	T	-0.008	0.002
rs58489806	C	0.011	0.003	T	-0.011	0.003
rs59774409	T	0.016	0.003	C	-0.016	0.003
rs59837038	T	0.008	0.002	C	-0.008	0.002
rs60018147	G	0.014	0.002	A	-0.014	0.002
rs6058067	G	0.009	0.002	T	-0.009	0.002
rs6073431	T	0.017	0.001	C	-0.017	0.001
rs6088776	T	0.012	0.002	C	-0.012	0.002
rs6129778	A	0.013	0.002	C	-0.013	0.002
rs61755050	T	0.13	0.009	C	-0.13	0.009
rs61830291	C	0.014	0.002	A	-0.014	0.002
rs62128735	A	0.009	0.002	G	-0.009	0.002
rs62186584	C	0.007	0.002	T	-0.007	0.002
rs62271373	T	0.022	0.003	A	-0.022	0.003
rs62303689	C	0.009	0.002	A	-0.009	0.002
rs62486442	G	0.007	0.002	A	-0.007	0.002
rs62515079	G	0.031	0.005	A	-0.031	0.005
rs62580766	T	0.011	0.002	C	-0.011	0.002
rs6531735	G	0.006	0.001	A	-0.006	0.001
rs6546096	A	0.028	0.002	G	-0.028	0.002
rs6706	T	0.018	0.002	C	-0.018	0.002
rs6736913	A	0.034	0.005	G	-0.034	0.005
rs67651018	A	0.008	0.002	G	-0.008	0.002
rs6772177	C	0.012	0.002	T	-0.012	0.002
rs67890964	C	0.009	0.001	T	-0.009	0.001
rs6792725	G	0.017	0.002	A	-0.017	0.002
rs68002561	G	0.013	0.002	A	-0.013	0.002
rs6803518	T	0.007	0.002	C	-0.007	0.002
rs6831257	G	0.008	0.001	A	-0.008	0.001
rs6860245	C	0.011	0.002	G	-0.011	0.002
rs687339	C	0.036	0.002	T	-0.036	0.002
rs6879874	T	0.008	0.002	A	-0.008	0.002
rs696825	T	0.025	0.002	C	-0.025	0.002
rs7139079	A	0.013	0.001	G	-0.013	0.001
rs71468663	A	0.017	0.003	AC	-0.017	0.003
rs71531849	CT	0.011	0.002	C	-0.011	0.002
rs7250869	C	0.01	0.002	T	-0.01	0.002
rs7252372	G	0.007	0.001	C	-0.007	0.001

rs72648854	C	0.018	0.004	T	-0.018	0.004
rs72681869	C	0.059	0.007	G	-0.059	0.007
rs72766607	T	0.027	0.005	G	-0.027	0.005
rs72782727	G	0.009	0.002	T	-0.009	0.002
rs72836346	C	0.013	0.003	G	-0.013	0.003
rs72844546	C	0.01	0.001	T	-0.01	0.001
rs7298820	T	0.014	0.002	A	-0.014	0.002
rs73036519	G	0.012	0.002	C	-0.012	0.002
rs7321688	C	0.007	0.002	A	-0.007	0.002
rs73519353	A	0.075	0.013	T	-0.075	0.013
rs73670309	C	0.011	0.002	A	-0.011	0.002
rs740516	C	0.009	0.002	G	-0.009	0.002
rs740893	G	0.009	0.002	C	-0.009	0.002
rs74090351	A	0.016	0.003	G	-0.016	0.003
rs7475279	A	0.021	0.002	C	-0.021	0.002
rs7481219	A	0.009	0.002	G	-0.009	0.002
rs7484541	T	0.014	0.002	A	-0.014	0.002
rs75077113	C	0.01	0.002	A	-0.01	0.002
rs75130744	G	0.026	0.003	C	-0.026	0.003
rs7567544	C	0.008	0.001	G	-0.008	0.001
rs764029425	TG	0.038	0.002	T	-0.038	0.002
rs76491020	C	0.011	0.003	G	-0.011	0.003
rs76767219	A	0.047	0.004	C	-0.047	0.004
rs768159759	A	0.014	0.003	AG	-0.014	0.003
rs76895963	G	0.073	0.005	T	-0.073	0.005
rs7696472	A	0.006	0.001	G	-0.006	0.001
rs770971500	C	0.01	0.002	CTTTT	-0.01	0.002
rs771193934	AGGCATGCTG CCAAGAAT	0.01	0.002	A	-0.01	0.002
rs775181992	A	0.014	0.002	AGCCCT	-0.014	0.002
rs778571122	GTGTTTTTTT TGTTTTTGTT TT	0.011	0.001	G	-0.011	0.001
rs78057960	T	0.009	0.002	C	-0.009	0.002
rs78058190	G	0.023	0.004	A	-0.023	0.004
rs781996653	TTATTTTATTG	0.009	0.001	T	-0.009	0.001
rs784504	C	0.01	0.002	G	-0.01	0.002
rs78890745	A	0.022	0.002	G	-0.022	0.002
rs79237700	T	0.019	0.004	C	-0.019	0.004
rs79287178	G	0.028	0.004	A	-0.028	0.004
rs79391862	A	0.074	0.006	C	-0.074	0.006
rs799157	T	0.021	0.003	C	-0.021	0.003
rs80126506	A	0.008	0.001	G	-0.008	0.001
rs80235628	G	0.021	0.003	A	-0.021	0.003
rs8027064	A	0.026	0.004	G	-0.026	0.004

rs8107967	G	0.01	0.001	A	-0.01	0.001
rs8176741	G	0.016	0.003	A	-0.016	0.003
rs8178824	C	0.042	0.004	T	-0.042	0.004
rs820504	G	0.013	0.002	A	-0.013	0.002
rs848476	G	0.007	0.002	A	-0.007	0.002
rs858519	C	0.1	0.001	T	-0.1	0.001
rs868655	C	0.008	0.002	A	-0.008	0.002
rs8756	C	0.009	0.001	A	-0.009	0.001
rs892225	G	0.007	0.001	A	-0.007	0.001
rs899865	T	0.006	0.002	C	-0.006	0.002
rs921153	A	0.009	0.002	G	-0.009	0.002
rs925098	G	0.01	0.002	A	-0.01	0.002
rs9366291	C	0.008	0.001	G	-0.008	0.001
rs9379084	G	0.015	0.002	A	-0.015	0.002
rs9426829	C	0.014	0.001	T	-0.014	0.001
rs9461793	A	0.009	0.002	C	-0.009	0.002
rs9556403	G	0.007	0.001	A	-0.007	0.001
rs9644032	T	0.006	0.001	G	-0.006	0.001
rs9697210	G	0.016	0.002	A	-0.016	0.002
rs9834503	A	0.008	0.001	C	-0.008	0.001
rs9872754	C	0.009	0.002	T	-0.009	0.002
rs9987289	G	0.022	0.002	A	-0.022	0.002

Supplemental Table 3. Genetic predictors for total testosterone in men

SNP	Allele increasing total testosterone	Increase in total testosterone per allele	SE
rs36086195	T	0.019	0.003
rs66844552	A	0.017	0.003
rs114165349	G	0.148	0.01
rs3768321	G	0.031	0.004
rs9970140	G	0.04	0.006
rs141509569	G	0.02	0.003
rs6676846	A	0.03	0.004
rs12406721	T	0.033	0.003
rs267733	A	0.023	0.004
rs746303202	A	0.02	0.003
rs34702488	A	0.026	0.004
1:167851935_TGTAGTGAGAGGTAGCCCAGC_T	T	0.017	0.003
rs12125882	A	0.017	0.003
rs35737316	T	0.036	0.004
rs10864086	C	0.022	0.003
1:221045347_AT_A	A	0.021	0.003
rs12470971	A	0.017	0.003
rs11096640	C	0.017	0.003
rs1260326	C	0.062	0.003
rs113017476	A	0.19	0.008
rs6736913	A	0.062	0.01
rs11433420	T	0.019	0.003
rs12614829	T	0.03	0.004
rs2540945	G	0.018	0.003
rs6750410	A	0.042	0.006
rs10649609	AAAAAT	0.017	0.003
rs10192634	T	0.023	0.003
rs71027236	T	0.02	0.004
rs2551641	C	0.022	0.004
rs2012736	C	0.048	0.006
rs34396520	CA	0.021	0.003
rs6792725	G	0.019	0.003
rs7610366	T	0.021	0.003
rs112765699	A	0.075	0.013
rs66956368	T	0.03	0.004
rs55869022	C	0.027	0.005
rs3841946	C	0.033	0.004
rs34040779	T	0.034	0.006
rs645040	G	0.043	0.004
rs6766859	T	0.031	0.003

3:152118069_ATTTATAATATGCCACTTTAGT_A	A	0.035	0.005
rs61762319	G	0.061	0.009
rs59194935	A	0.02	0.003
rs13074711	T	0.028	0.005
rs13108218	A	0.035	0.003
rs1203109	C	0.024	0.004
rs7679843	G	0.043	0.005
4:69447407_GT_G	GT	0.06	0.004
rs7696472	A	0.038	0.003
rs10028954	C	0.019	0.003
rs1441911	G	0.022	0.004
rs17408832	C	0.019	0.003
rs11735092	T	0.037	0.003
rs1154401	G	0.028	0.003
rs201814405	A	0.034	0.005
rs565931739	C	0.039	0.004
rs528845403	A	0.199	0.016
rs114816312	T	0.119	0.018
rs11099675	T	0.021	0.004
rs60701	C	0.019	0.003
rs7735249	C	0.028	0.005
rs40270	A	0.022	0.004
rs112530420	C	0.026	0.004
rs329122	G	0.018	0.003
5:135639923_GA_G	GA	0.031	0.004
rs6870458	T	0.023	0.003
rs1349359	A	0.017	0.003
rs9461224	T	0.018	0.003
rs2016572	G	0.026	0.003
rs543504257	A	0.024	0.003
rs6939861	G	0.025	0.003
rs62415384	G	0.016	0.003
6:100108564_TG_T	T	0.022	0.003
rs1933801	T	0.038	0.003
6:131936324_GTTT_G	GTTT	0.026	0.004
rs9383605	A	0.019	0.003
rs7773995	C	0.024	0.004
6:160768849_CTGCCCTG_C	C	0.02	0.003
rs9986829	A	0.041	0.003
rs1708302	T	0.018	0.003
rs10279715	A	0.018	0.003
7:78482336_AG_A	AG	0.052	0.009
rs1229498	T	0.019	0.003

rs7015	G	0.056	0.004
rs11772470	A	0.03	0.004
7:150502468_AT_A	A	0.033	0.005
rs4841133	G	0.031	0.005
rs7835492	C	0.025	0.004
rs4871844	C	0.017	0.003
rs10958704	A	0.02	0.003
rs12543287	C	0.02	0.003
rs7844586	C	0.02	0.004
rs55867305	G	0.033	0.003
rs7824394	C	0.024	0.003
rs76767219	A	0.055	0.008
rs34955534	G	0.042	0.005
rs7828742	A	0.017	0.003
rs148204274	TGTGTCTGTACA	0.016	0.003
rs2721195	T	0.02	0.003
rs12336359	C	0.019	0.003
rs112107457	T	0.029	0.005
rs3808869	C	0.017	0.003
rs148262335	TTA	0.026	0.003
rs199950405	C	0.019	0.004
rs10868080	T	0.036	0.003
rs41310053	T	0.112	0.02
9:97023094_ATTTTTTTTTTTT_A	A	0.016	0.003
rs2090409	C	0.026	0.003
rs10982156	A	0.037	0.006
rs10982192	T	0.024	0.004
rs13289095	G	0.021	0.004
rs35182096	C	0.023	0.004
9:140774721_T_C	C	0.017	0.003
rs79717793	G	0.049	0.004
rs77044968	C	0.037	0.006
10:65158772_AAAG_A	A	0.11	0.003
rs34131245	C	0.03	0.005
rs7912521	C	0.049	0.003
10:69632729_AT_A	AT	0.024	0.003
10:81073027_CCCACCCACCA_C	CCCACCCACCA	0.021	0.004
10:93564864_CT_C	CT	0.02	0.003
rs2862954	C	0.018	0.003
rs5787948	C	0.018	0.003
rs7915430	T	0.025	0.004
rs775181992	A	0.023	0.004
rs2957683	C	0.016	0.003

rs4757142	G	0.018	0.003
rs10832570	A	0.025	0.003
rs1994721	G	0.049	0.004
rs145843487	G	0.076	0.011
rs200647710	A	0.016	0.003
rs11607114	C	0.025	0.004
rs10750766	C	0.022	0.003
rs631695	T	0.024	0.003
rs12787293	G	0.02	0.003
rs12796488	C	0.041	0.004
rs4754839	A	0.018	0.003
rs10892924	T	0.032	0.003
rs618888	T	0.023	0.003
rs56196860	A	0.301	0.009
rs61922185	T	0.021	0.003
rs73079476	A	0.054	0.004
rs12320328	A	0.043	0.005
rs111538456	C	0.026	0.003
rs540730	T	0.03	0.004
rs2583948	A	0.035	0.005
rs191591035	G	0.222	0.035
rs61755050	T	0.211	0.02
rs7314285	G	0.039	0.006
rs3809272	G	0.02	0.003
rs12810788	G	0.025	0.004
rs2393775	A	0.026	0.003
rs534541609	C	0.022	0.004
rs6486542	C	0.021	0.003
rs7997628	A	0.017	0.003
rs2038695	C	0.021	0.003
rs3742223	T	0.03	0.005
rs139713000	CT	0.028	0.004
rs11621792	C	0.018	0.003
rs72681869	C	0.103	0.015
rs140218129	T	0.025	0.005
rs2239222	G	0.021	0.003
rs72721770	G	0.019	0.003
rs1812755	T	0.026	0.004
rs145602600	T	0.133	0.021
rs28929474	T	0.222	0.011
rs17580	A	0.049	0.007
rs7143218	C	0.025	0.003
rs45490496	A	0.021	0.003

rs55707100	C	0.111	0.01
rs28892005	A	0.028	0.003
rs140357247	C	0.241	0.038
rs79391862	A	0.157	0.013
rs12910403	G	0.018	0.003
rs200651966	C	0.033	0.004
rs7182912	G	0.021	0.004
rs7166920	A	0.02	0.003
rs56332871	A	0.047	0.003
16:1684027_CA_C	C	0.029	0.005
rs841194	G	0.027	0.004
rs12445820	G	0.025	0.004
rs2764772	A	0.032	0.003
16:28704506_ATTT_A	ATTT	0.034	0.003
rs1421085	T	0.022	0.003
rs42945	A	0.016	0.003
rs57349855	C	0.022	0.003
rs79488654	G	0.235	0.041
rs4782568	G	0.025	0.003
rs12926107	A	0.024	0.003
rs550628400	G	0.134	0.02
rs4525526	C	0.033	0.004
rs1799941	A	0.197	0.003
rs6258	C	0.718	0.018
17:17917246_AT_A	AT	0.019	0.003
rs56853305	G	0.027	0.004
rs2905801	T	0.029	0.003
rs650558	C	0.022	0.003
rs62062271	C	0.031	0.004
rs576009056	G	0.023	0.004
rs28394864	G	0.053	0.003
rs2306216	A	0.027	0.004
rs7216664	G	0.019	0.003
rs62076019	G	0.016	0.003
rs2668776	C	0.023	0.003
rs1624295	A	0.033	0.003
rs8107967	G	0.019	0.003
rs10421262	T	0.021	0.003
rs202200760	C	0.12	0.009
rs35824797	C	0.044	0.006
19:35555222_GTC_G	G	0.037	0.004
rs34851490	G	0.048	0.005
rs11671304	C	0.016	0.003

rs573396813	CT	0.018	0.003
rs139316391	GTCTCTCTCTC	0.053	0.006
20:39951474_TA_T	T	0.022	0.003
rs6073431	T	0.031	0.003
rs1058319	T	0.024	0.005
rs575146	G	0.018	0.003
rs1033667	T	0.023	0.003
rs738409	G	0.051	0.004
rs11703376	T	0.034	0.003
rs112265145	C	0.098	0.002
rs782159242	CT	0.014	0.002
X:54243748_CA_C	CA	0.016	0.003
rs761954625	CTG	0.032	0.003
rs146447930	C	0.071	0.009
rs74805556	T	0.04	0.002
rs72630041	G	0.018	0.003
rs881090	T	0.063	0.002
rs7065171	G	0.018	0.002
X:146434326_GTTT_G	GTTT	0.017	0.002

Supplemental Table 4. Power calculation in men and women

Outcome	Power at r^2=0.030		Power at r^2=0.035	
	Men	Women	Men	Women
CKD	OR 0.80	OR 0.80	OR 0.82	OR 0.82
Albuminuria	OR 0.83	OR 0.83	OR 0.84	OR 0.84
eGFR_cr	Effect size 0.04	Effect size 0.035	Effect size 0.036	Effect size 0.033
eGFR_crcys	Effect size 0.04	Effect size 0.035	Effect size 0.036	Effect size 0.033

Supplemental Table 5. Association of each SHBG-related genetic variant with CKD and kidney function in men

SNP	Effect.Allele	CKD		Albuminuria		eGFRcr		eGFRcr_cys	
		logOR	se	logOR	se	Beta	Se	Beta	se
1:1510035_GGC_G	G	0.003	0.022	0.014	0.018	-0.032	0.044	-0.063	0.046
1:167851935_TGTAGTGAGAGGTAGCCCAGC_T	T	-0.032	0.022	-0.031	0.019	-0.042	0.044	-0.064	0.047
1:196914907_AGT_A	AGT	0.029	0.024	0.008	0.020	-0.013	0.048	-0.081	0.051
1:23747996_GA_G	G	0.026	0.023	0.034	0.019	-0.176	0.045	-0.208	0.048
1:25827633_CT_C	CT	-0.045	0.020	0.031	0.017	0.184	0.040	0.069	0.043
1:35734986_AAGTGCATCTTT_A	A	0.005	0.035	-0.005	0.029	-0.031	0.069	-0.013	0.074
1:93033928_CT_C	C	0.002	0.024	0.021	0.020	-0.078	0.047	-0.095	0.051
11:65227616_CAAA_C	CAAA	0.049	0.021	0.000	0.018	-0.150	0.043	-0.214	0.045
12:93632423_CA_C	CA	0.003	0.029	0.002	0.025	0.035	0.058	0.079	0.062
13:115013423_TTCTC_T	TTCTC	0.013	0.024	-0.020	0.020	-0.116	0.048	-0.199	0.051
14:25948829_AAC_A	AAC	-0.020	0.024	-0.025	0.020	-0.057	0.047	-0.090	0.050
16:1786202_TGTGTGACCATCC_T	T	0.014	0.031	0.056	0.026	0.086	0.062	0.113	0.066
17:16062400_TA_T	T	0.020	0.020	0.027	0.017	-0.017	0.040	0.055	0.043
17:67080811_CT_C	C	0.009	0.024	0.033	0.021	0.130	0.049	0.090	0.053
17:8567107_CA_C	CA	0.077	0.137	0.072	0.115	-0.064	0.262	0.113	0.279
19:7223973_TTTG_T	TTTG	-0.020	0.020	-0.009	0.017	0.075	0.040	0.052	0.043
2:111925731_CTTATGTT_C	CTTATGTT	-0.065	0.039	-0.067	0.033	-0.024	0.081	-0.069	0.086
2:191559843_GT_G	GT	0.027	0.024	-0.007	0.021	-0.004	0.049	-0.082	0.052
3:49562992_CT_C	CT	-0.008	0.023	-0.020	0.019	0.033	0.046	0.094	0.049
4:128987952_ATT_A	A	0.026	0.021	0.006	0.018	0.075	0.041	0.027	0.044
5:36206855_GAT_G	G	0.005	0.064	0.006	0.055	-0.248	0.130	-0.050	0.139
6:27223966_CTCTA_C	C	0.001	0.036	0.017	0.030	0.090	0.072	-0.123	0.077
6:28419903_GGT_G	G	0.012	0.020	-0.019	0.017	-0.051	0.041	-0.143	0.043
7:74298343_TGAGA_T	T	0.012	0.025	0.036	0.021	0.187	0.049	0.088	0.053
8:81430449_AT_A	A	-0.002	0.033	-0.078	0.029	0.027	0.066	0.091	0.070
8:81457499_CA_C	C	0.044	0.024	-0.006	0.021	-0.062	0.049	-0.059	0.052
9:112204335_AT_A	AT	-0.039	0.029	0.002	0.025	0.194	0.059	0.111	0.063
9:123780856_AAAGGAAGG_A	AAAGGAAGG	0.001	0.024	-0.020	0.020	-0.094	0.048	-0.113	0.051
9:125949547_TA_T	TA	-0.079	0.078	-0.077	0.067	0.279	0.154	0.094	0.164
9:19084633_CT_C	C	0.031	0.023	0.010	0.020	-0.067	0.046	-0.084	0.049
rs10027275	G	-0.004	0.023	-0.007	0.019	-0.127	0.045	-0.050	0.048
rs1005421	C	0.032	0.020	0.001	0.017	-0.076	0.040	-0.069	0.043
rs10069690	C	-0.025	0.022	-0.005	0.019	-0.014	0.045	-0.006	0.048
rs10083137	A	-0.012	0.053	-0.025	0.045	0.048	0.108	0.003	0.115
rs10107182	T	-0.026	0.021	-0.030	0.018	0.051	0.041	-0.024	0.044
rs10116426	C	-0.006	0.020	-0.014	0.017	-0.065	0.040	-0.067	0.042
rs10153800	A	-0.014	0.023	0.038	0.020	0.070	0.047	0.040	0.050

rs1037169	T	-0.003	0.021	-0.040	0.018	-0.057	0.043	-0.089	0.045
rs10411958	C	-0.029	0.020	0.009	0.017	0.092	0.039	0.078	0.042
rs10421262	T	-0.041	0.020	0.029	0.017	0.128	0.041	0.175	0.043
rs1058319	T	0.015	0.030	-0.036	0.026	0.049	0.061	0.049	0.065
rs10649697	T	-0.011	0.023	-0.011	0.019	-0.085	0.046	-0.034	0.049
rs10657979	C	0.022	0.023	0.020	0.019	-0.145	0.045	-0.114	0.048
rs10822153	A	0.015	0.020	-0.026	0.017	0.040	0.039	-0.082	0.042
rs10864086	C	-0.007	0.023	0.004	0.019	0.015	0.045	0.036	0.048
rs10868080	T	0.037	0.022	0.000	0.019	-0.062	0.045	-0.075	0.048
rs10871794	A	0.058	0.022	0.008	0.018	-0.198	0.043	-0.050	0.046
rs10895277	A	0.012	0.021	-0.003	0.018	0.033	0.042	0.015	0.044
rs11111274	G	-0.019	0.022	-0.015	0.019	0.068	0.044	0.009	0.047
rs111643014	A	-0.011	0.061	-0.023	0.052	0.009	0.122	-0.074	0.130
rs111767734	T	-0.029	0.089	-0.047	0.076	-0.241	0.183	-0.153	0.195
rs111917063	C	-0.051	0.068	0.026	0.060	-0.301	0.139	-0.099	0.148
rs111981233	G	-0.043	0.037	-0.042	0.031	0.154	0.072	0.191	0.077
rs112352679	T	0.014	0.025	-0.010	0.021	-0.018	0.050	-0.089	0.054
rs112965849	A	0.018	0.025	0.017	0.021	-0.106	0.049	-0.118	0.053
rs11398692	C	-0.010	0.020	-0.019	0.017	-0.029	0.039	-0.017	0.042
rs114165349	G	-0.114	0.063	-0.020	0.056	-0.669	0.132	-0.543	0.140
rs11419346	C	-0.041	0.025	-0.018	0.022	-0.019	0.052	-0.063	0.055
rs114949263	C	-0.026	0.031	0.043	0.026	0.306	0.062	0.300	0.066
rs11539938	C	0.012	0.022	0.006	0.018	-0.017	0.043	0.045	0.046
rs11601507	A	0.047	0.037	0.024	0.032	0.117	0.077	0.004	0.082
rs11621792	C	-0.010	0.020	-0.047	0.017	-0.090	0.040	-0.070	0.042
rs116338429	T	-0.002	0.032	-0.002	0.027	0.180	0.064	0.074	0.068
rs11641834	C	-0.004	0.020	0.018	0.017	0.051	0.040	0.044	0.043
rs116483731	A	0.017	0.108	0.125	0.088	-0.033	0.219	-0.066	0.233
rs11655704	C	-0.035	0.021	-0.025	0.018	0.083	0.042	0.112	0.045
rs11666245	G	-0.021	0.046	-0.050	0.038	0.105	0.093	0.254	0.099
rs11732763	A	0.065	0.031	-0.012	0.027	-0.007	0.064	0.021	0.068
rs11734408	G	0.015	0.021	-0.016	0.018	-0.015	0.043	-0.048	0.046
rs11739158	T	0.013	0.020	-0.007	0.017	-0.077	0.040	-0.085	0.042
rs11743810	T	-0.008	0.020	0.023	0.017	0.020	0.040	-0.006	0.042
rs11751920	C	-0.024	0.067	-0.009	0.057	0.363	0.134	0.399	0.143
rs11856926	G	0.009	0.020	-0.008	0.017	-0.073	0.040	-0.127	0.043
rs11867902	G	0.063	0.063	-0.038	0.051	-0.414	0.122	-0.597	0.131
rs11994858	G	-0.015	0.021	-0.005	0.018	0.013	0.041	0.092	0.044
rs12059956	G	-0.010	0.020	0.016	0.017	0.089	0.040	0.091	0.042
rs1229492	T	0.022	0.022	0.036	0.019	0.118	0.045	0.063	0.048
rs12364060	T	0.050	0.023	0.021	0.020	-0.014	0.046	0.011	0.049
rs12454712	C	-0.029	0.020	-0.025	0.017	-0.066	0.041	-0.042	0.043
rs12536766	T	0.005	0.020	0.029	0.017	0.054	0.040	-0.002	0.043

rs12543287	C	-0.006	0.020	-0.003	0.017	0.142	0.041	0.199	0.044
rs1260326	C	0.014	0.020	-0.058	0.017	-0.383	0.040	-0.340	0.043
rs12690320	G	-0.011	0.014	-0.014	0.012	0.003	0.028	0.002	0.030
rs12694450	T	0.019	0.023	0.022	0.020	0.058	0.046	-0.022	0.049
rs12696304	G	-0.013	0.022	0.000	0.019	-0.035	0.044	-0.056	0.047
rs12705095	G	0.015	0.025	0.035	0.021	0.032	0.051	0.005	0.054
rs12797706	A	0.021	0.023	-0.045	0.020	-0.018	0.047	0.074	0.050
rs12818938	T	-0.011	0.027	-0.011	0.023	-0.061	0.054	0.004	0.057
rs12928099	A	0.010	0.021	0.022	0.018	-0.056	0.043	-0.095	0.046
rs12950562	T	-0.016	0.020	-0.041	0.017	-0.073	0.040	0.029	0.043
rs13042148	C	0.008	0.027	0.052	0.023	-0.054	0.054	-0.111	0.058
rs13108218	A	0.002	0.020	0.044	0.017	0.097	0.041	0.026	0.044
rs13280055	G	-0.009	0.030	-0.019	0.025	0.277	0.060	0.211	0.064
rs13315174	G	0.017	0.024	0.043	0.020	0.113	0.048	0.035	0.051
rs13379043	C	-0.022	0.023	-0.016	0.019	-0.115	0.045	-0.020	0.048
rs13389219	T	-0.034	0.020	-0.024	0.017	0.073	0.040	-0.005	0.043
rs1349852	C	0.020	0.020	-0.019	0.017	-0.013	0.039	-0.047	0.042
rs1351394	T	0.008	0.020	-0.031	0.017	0.108	0.039	0.175	0.042
rs138529890	A	-0.049	0.055	0.021	0.045	0.344	0.108	0.404	0.115
rs139974673	T	0.009	0.064	-0.117	0.051	-0.053	0.126	-0.054	0.135
rs140386498	T	-0.133	0.090	0.136	0.069	0.436	0.171	-0.030	0.182
rs140584594	A	-0.038	0.022	0.022	0.019	0.139	0.044	0.149	0.047
rs141811210	GTAA	0.013	0.020	0.011	0.017	-0.048	0.041	0.091	0.043
rs1418334	G	-0.029	0.014	-0.052	0.012	0.068	0.028	0.068	0.030
rs142627977	C	-0.009	0.020	-0.019	0.017	-0.046	0.040	0.024	0.042
rs142740991	C	0.058	0.022	-0.052	0.019	-0.327	0.044	-0.287	0.047
rs143709973	A	0.021	0.048	-0.111	0.039	-0.195	0.095	-0.212	0.102
rs144647926	A	-0.010	0.035	0.027	0.029	-0.096	0.069	-0.114	0.074
rs144794875	G	-0.031	0.029	0.032	0.024	0.037	0.058	0.051	0.062
rs148082013	G	0.261	0.167	0.191	0.140	0.430	0.307	0.153	0.327
rs148427769	G	-0.061	0.043	0.065	0.033	0.107	0.083	0.096	0.088
rs148911629	G	0.097	0.106	0.118	0.091	0.100	0.205	0.333	0.219
rs149624078	C	0.202	0.097	0.085	0.078	0.031	0.178	0.180	0.190
rs149663666	T	0.126	0.124	0.144	0.105	-0.433	0.231	-0.620	0.246
rs149675684	G	0.307	0.206	0.092	0.194	-0.649	0.496	-0.524	0.528
rs1567353	C	0.007	0.021	-0.034	0.018	-0.003	0.043	-0.008	0.046
rs1570516	T	0.025	0.023	-0.014	0.020	0.047	0.046	0.033	0.049
rs157935	G	-0.028	0.021	-0.011	0.018	-0.030	0.043	-0.011	0.046
rs1640267	C	-0.015	0.022	0.028	0.018	0.002	0.044	0.051	0.046
rs17036326	G	-0.008	0.030	-0.074	0.026	-0.100	0.060	-0.012	0.064
rs17050272	A	0.020	0.020	-0.011	0.017	-0.238	0.040	-0.296	0.042
rs17145750	T	-0.050	0.027	-0.052	0.023	0.020	0.053	-0.205	0.057
rs17185536	T	-0.012	0.023	0.037	0.019	0.125	0.046	-0.009	0.049

rs1730865	G	0.009	0.021	-0.002	0.018	0.013	0.042	-0.118	0.044
rs174528	T	0.023	0.020	0.007	0.017	-0.135	0.041	-0.217	0.043
rs17583875	A	0.006	0.067	0.067	0.055	-0.027	0.135	-0.168	0.144
rs17669311	G	-0.007	0.021	0.011	0.017	0.114	0.041	0.063	0.044
rs17747324	T	-0.019	0.023	-0.035	0.020	0.023	0.047	0.018	0.050
rs1782652	T	0.002	0.021	-0.004	0.018	-0.088	0.041	-0.040	0.044
rs1788641	A	0.008	0.021	-0.014	0.018	0.182	0.042	0.096	0.045
rs1799831	C	-0.002	0.027	-0.020	0.023	-0.062	0.054	-0.041	0.058
rs1799941	A	-0.039	0.022	0.010	0.019	0.048	0.045	0.124	0.048
rs1801689	A	-0.034	0.056	-0.062	0.047	0.024	0.115	0.254	0.122
rs180956060	G	0.006	0.028	-0.042	0.023	-0.008	0.056	0.013	0.059
rs184640919	G	-0.367	0.315	-0.220	0.289	0.233	0.726	-0.070	0.774
rs185073832	C	0.868	0.508	0.744	0.416	0.030	0.702	0.307	0.747
rs1859690	G	-0.086	0.040	-0.011	0.033	-0.059	0.079	0.085	0.084
rs186915841	C	0.204	0.309	0.013	0.231	-0.472	0.537	-0.955	0.572
rs1870927	A	-0.016	0.020	0.010	0.017	0.004	0.041	0.011	0.043
rs1871395	A	-0.010	0.027	-0.001	0.023	-0.098	0.055	-0.203	0.059
rs187325356	A	0.047	0.114	0.022	0.099	-0.036	0.235	-0.072	0.250
rs187437	G	0.006	0.020	0.013	0.017	0.030	0.040	0.011	0.042
rs1883783	T	0.066	0.020	-0.014	0.017	-0.090	0.040	-0.095	0.042
rs1890426	C	0.017	0.020	0.012	0.017	-0.072	0.040	-0.192	0.043
rs190712692	A	0.053	0.044	-0.132	0.041	-0.119	0.092	-0.225	0.098
rs191591035	G	-0.341	0.301	-0.302	0.256	0.316	0.700	0.375	0.745
rs191884522	C	0.080	0.250	0.061	0.213	-0.377	0.513	0.437	0.547
rs198384	A	-0.010	0.020	0.008	0.017	0.043	0.040	0.050	0.042
rs1991401	G	-0.008	0.021	-0.003	0.018	-0.087	0.043	-0.101	0.045
rs199910997	A	0.026	0.026	0.015	0.023	-0.049	0.053	-0.172	0.056
rs200138078	C	-0.058	0.019	-0.016	0.017	0.239	0.039	0.226	0.042
rs2002094	C	-0.011	0.033	-0.045	0.028	0.076	0.067	0.108	0.072
rs200883214	G	-0.028	0.020	-0.002	0.017	0.030	0.041	-0.014	0.044
rs201764793	TTTC	0.002	0.021	-0.010	0.018	0.017	0.043	-0.031	0.045
rs202128511	T	-0.014	0.025	0.056	0.021	0.128	0.050	0.119	0.053
rs202200760	C	-0.001	0.063	-0.080	0.056	0.018	0.128	0.129	0.136
rs2106727	G	-0.010	0.020	0.057	0.017	0.184	0.041	0.165	0.044
rs2106854	T	0.040	0.025	0.035	0.021	0.190	0.050	0.109	0.054
rs211644	C	0.024	0.016	0.001	0.014	-0.035	0.032	-0.059	0.034
rs2156805	G	-0.023	0.020	0.032	0.017	0.084	0.039	0.048	0.042
rs2197771	G	0.003	0.020	-0.040	0.017	-0.004	0.041	-0.044	0.043
rs2216707	C	-0.050	0.026	0.034	0.022	0.141	0.053	0.160	0.056
rs2222018	C	-0.067	0.021	-0.088	0.018	0.083	0.041	0.045	0.044
rs2234694	A	-0.025	0.047	-0.004	0.040	0.181	0.095	0.139	0.101
rs2238799	G	-0.016	0.020	-0.003	0.017	0.029	0.041	0.001	0.043
rs2239222	G	0.006	0.021	0.026	0.018	-0.036	0.042	-0.042	0.044

rs2247213	G	-0.009	0.021	0.019	0.018	0.003	0.042	0.014	0.044
rs2259305	G	-0.031	0.019	0.018	0.017	0.122	0.039	0.011	0.042
rs2275560	G	-0.029	0.029	0.012	0.025	0.082	0.058	0.077	0.062
rs2277283	C	0.004	0.022	0.012	0.018	-0.018	0.043	-0.032	0.046
rs2283760	C	-0.007	0.018	-0.011	0.015	0.018	0.036	0.002	0.039
rs2287322	G	-0.028	0.024	0.007	0.020	0.167	0.047	0.106	0.050
rs2288004	G	-0.012	0.020	0.012	0.017	0.086	0.040	0.143	0.043
rs234051	A	0.004	0.022	-0.040	0.019	0.012	0.043	0.013	0.046
rs2431752	A	-0.050	0.032	-0.046	0.027	-0.081	0.064	-0.029	0.068
rs246192	G	-0.012	0.020	-0.012	0.017	0.079	0.040	0.038	0.042
rs2564923	A	-0.014	0.020	-0.015	0.017	-0.036	0.039	-0.005	0.042
rs2721195	T	-0.007	0.020	-0.018	0.017	-0.065	0.040	-0.089	0.042
rs2820441	C	-0.011	0.021	-0.024	0.018	-0.026	0.042	-0.024	0.045
rs28507491	A	-0.062	0.020	0.042	0.017	0.374	0.041	0.457	0.043
rs28562483	G	0.015	0.030	0.020	0.026	-0.094	0.060	-0.112	0.064
rs28650012	G	0.007	0.022	-0.023	0.019	0.024	0.044	0.024	0.047
rs28929474	T	-0.062	0.070	0.161	0.056	0.041	0.139	-0.753	0.148
rs2905801	T	-0.011	0.021	-0.028	0.018	0.101	0.043	0.024	0.046
rs29681	T	-0.028	0.030	-0.015	0.026	0.033	0.061	-0.001	0.065
rs3006593	C	0.000	0.020	-0.009	0.017	0.038	0.040	0.003	0.043
rs329122	G	0.000	0.020	-0.020	0.017	-0.061	0.040	-0.082	0.042
rs34006916	G	-0.034	0.043	0.023	0.037	-0.086	0.087	-0.182	0.093
rs34255979	T	0.025	0.030	-0.005	0.026	0.040	0.061	-0.007	0.065
rs34372369	A	-0.042	0.046	0.022	0.038	0.305	0.089	0.347	0.095
rs34390319	C	0.024	0.033	-0.014	0.028	0.035	0.066	-0.016	0.071
rs34651	T	0.025	0.037	0.039	0.031	0.064	0.073	0.078	0.078
rs34771269	CT	-0.030	0.022	-0.008	0.019	0.053	0.045	0.008	0.048
rs35067979	C	-0.024	0.041	0.045	0.036	0.138	0.084	0.096	0.090
rs35225944	T	0.003	0.021	0.015	0.018	-0.121	0.042	-0.092	0.045
rs35234337	C	0.028	0.023	0.002	0.019	0.051	0.045	0.096	0.048
rs35526088	T	-0.023	0.020	-0.009	0.017	0.044	0.040	0.040	0.043
rs35654957	T	0.005	0.020	0.032	0.017	0.117	0.041	0.152	0.044
rs35824797	C	-0.056	0.036	-0.013	0.031	0.092	0.073	0.068	0.078
rs36013981	A	-0.003	0.020	0.021	0.017	0.038	0.040	0.050	0.043
rs36086195	T	0.014	0.020	0.015	0.017	0.053	0.040	0.041	0.042
rs36103835	T	-0.038	0.023	-0.025	0.019	0.076	0.046	-0.078	0.048
rs36108764	G	0.024	0.025	-0.014	0.021	-0.030	0.050	-0.086	0.053
rs370654105	C	0.005	0.024	-0.024	0.020	0.017	0.048	-0.021	0.051
rs3742366	C	0.019	0.021	0.019	0.018	0.062	0.041	0.004	0.044
rs3746575	G	-0.031	0.021	0.002	0.018	0.000	0.042	0.034	0.045
rs3747647	C	-0.040	0.025	-0.032	0.021	0.079	0.049	0.072	0.052
rs3780190	G	-0.011	0.020	0.018	0.017	0.132	0.040	-0.066	0.042
rs3781085	T	0.005	0.020	-0.022	0.017	0.027	0.040	0.037	0.042

rs3782735	A	-0.016	0.021	-0.006	0.018	0.048	0.042	0.080	0.045
rs3795128	C	-0.008	0.020	0.032	0.017	0.134	0.039	0.141	0.042
rs3812275	C	-0.041	0.020	-0.024	0.017	0.155	0.040	0.174	0.043
rs3927496	A	-0.013	0.020	-0.006	0.017	0.004	0.039	0.037	0.042
rs40270	A	-0.023	0.023	-0.040	0.020	0.004	0.047	-0.061	0.050
rs4077285	G	-0.014	0.034	-0.004	0.029	-0.050	0.068	-0.016	0.072
rs41284816	T	-0.025	0.075	-0.073	0.066	-0.785	0.150	-0.849	0.160
rs41412647	C	0.034	0.020	-0.015	0.017	-0.057	0.041	-0.029	0.043
rs4333851	A	-0.065	0.028	-0.004	0.023	0.149	0.055	0.092	0.058
rs445	C	-0.065	0.033	0.006	0.028	0.092	0.067	0.051	0.071
rs45490496	A	-0.015	0.020	-0.025	0.017	0.011	0.041	-0.021	0.043
rs45512696	T	-0.036	0.026	0.078	0.021	0.118	0.052	0.037	0.055
rs4645936	G	-0.115	0.042	-0.031	0.037	0.102	0.089	0.139	0.094
rs4673528	C	0.002	0.020	-0.019	0.017	-0.178	0.040	-0.066	0.042
rs4675682	T	-0.037	0.020	0.050	0.017	0.155	0.039	0.153	0.042
rs4714001	G	0.003	0.020	0.008	0.017	0.037	0.041	0.022	0.044
rs4715316	T	0.028	0.021	0.029	0.018	-0.118	0.041	-0.187	0.044
rs4725944	C	-0.020	0.020	0.025	0.017	0.069	0.040	0.064	0.043
rs4762755	T	-0.021	0.020	0.011	0.017	0.072	0.041	-0.001	0.044
rs4782568	G	0.022	0.020	-0.002	0.017	-0.142	0.040	-0.102	0.042
rs4809604	T	-0.037	0.020	-0.033	0.017	0.018	0.040	0.020	0.043
rs4812336	A	-0.019	0.021	0.019	0.018	-0.061	0.043	-0.100	0.046
rs4841133	G	0.021	0.034	0.023	0.029	0.340	0.068	0.058	0.072
rs4860987	T	-0.009	0.025	-0.051	0.022	0.054	0.050	0.005	0.054
rs4979372	C	-0.025	0.020	-0.030	0.017	0.020	0.040	0.016	0.042
rs4988308	G	-0.009	0.020	-0.032	0.017	0.076	0.040	0.089	0.043
rs501470	G	0.011	0.020	0.008	0.017	-0.025	0.039	-0.061	0.042
rs528350911	C	-0.214	0.140	-0.137	0.123	0.160	0.314	0.477	0.334
rs540730	T	-0.027	0.023	0.014	0.019	0.250	0.045	0.331	0.048
rs549677458	A	0.792	0.510	-0.295	0.280	-0.470	0.741	-0.745	0.789
rs55646464	G	0.006	0.021	-0.083	0.018	-0.023	0.043	-0.044	0.046
rs55855238	C	0.009	0.020	0.042	0.018	0.049	0.041	0.013	0.044
rs55962409	C	-0.022	0.022	0.049	0.019	0.057	0.044	0.080	0.046
rs56187480	G	-0.002	0.021	-0.014	0.018	0.021	0.041	0.117	0.044
rs56196860	A	-0.125	0.058	-0.036	0.048	0.317	0.112	0.300	0.119
rs56237852	C	-0.011	0.026	0.012	0.022	0.030	0.052	-0.023	0.055
rs562609617	GT	-0.020	0.021	-0.009	0.018	-0.104	0.043	-0.221	0.046
rs56332871	A	0.003	0.022	0.035	0.019	-0.022	0.044	-0.098	0.047
rs565471584	T	-0.374	0.176	-0.085	0.172	-0.387	0.419	-0.071	0.446
rs565728741	C	0.025	0.035	0.028	0.030	-0.169	0.070	-0.149	0.074
rs5749082	T	-0.016	0.021	-0.015	0.018	-0.072	0.043	-0.049	0.046
rs58321169	C	0.022	0.022	0.022	0.019	0.050	0.045	0.055	0.048
rs591939	A	0.030	0.023	-0.022	0.019	0.094	0.045	0.045	0.048

rs59708846	A	-0.008	0.037	-0.011	0.032	0.060	0.074	0.097	0.079
rs60005573	GGATTAT	0.046	0.040	0.017	0.034	-0.103	0.082	-0.121	0.087
rs60018147	G	-0.015	0.033	-0.016	0.029	0.013	0.067	0.015	0.071
rs6005840	A	-0.015	0.021	0.027	0.018	0.046	0.042	0.038	0.045
rs61755050	T	0.167	0.136	-0.093	0.102	-0.560	0.254	-0.602	0.271
rs61929307	G	-0.006	0.021	0.027	0.017	-0.012	0.041	-0.047	0.044
rs62012358	G	-0.043	0.021	-0.033	0.018	0.040	0.042	0.065	0.045
rs62134282	T	-0.012	0.020	-0.012	0.017	0.090	0.040	0.057	0.042
rs62182125	G	-0.021	0.020	0.007	0.017	0.136	0.040	0.267	0.042
rs62195072	C	0.009	0.021	0.031	0.018	0.085	0.042	0.067	0.045
rs62394490	T	0.002	0.020	0.024	0.017	0.048	0.040	0.010	0.043
rs62442919	A	-0.013	0.021	-0.025	0.018	-0.058	0.042	-0.059	0.044
rs6258	C	-0.094	0.119	-0.016	0.104	0.173	0.244	0.223	0.260
rs62580766	T	-0.019	0.025	-0.003	0.021	0.003	0.051	-0.001	0.054
rs62618693	T	-0.017	0.047	-0.020	0.040	0.223	0.094	0.432	0.100
rs631695	T	-0.014	0.020	0.031	0.017	0.032	0.040	0.030	0.042
rs6480299	C	0.016	0.021	0.007	0.018	-0.096	0.042	-0.136	0.045
rs6595447	T	0.015	0.025	-0.009	0.021	0.083	0.050	0.131	0.053
rs6632893	A	-0.006	0.015	0.020	0.013	0.074	0.031	0.050	0.033
rs665731	T	0.016	0.025	-0.004	0.022	-0.145	0.051	-0.173	0.054
rs6736913	A	0.161	0.063	0.046	0.056	-0.042	0.135	-0.085	0.144
rs6750410	A	0.044	0.040	0.038	0.034	-0.121	0.080	-0.126	0.085
rs67527887	T	-0.023	0.024	-0.026	0.020	0.042	0.047	0.057	0.050
rs6792725	G	-0.029	0.022	-0.033	0.019	0.090	0.046	0.084	0.049
rs6831352	T	0.012	0.021	0.025	0.018	0.000	0.043	-0.079	0.046
rs687339	C	0.013	0.023	0.034	0.020	-0.192	0.047	-0.118	0.050
rs6900473	A	0.026	0.021	-0.008	0.018	-0.219	0.042	-0.190	0.045
rs6939861	G	0.004	0.023	0.002	0.019	-0.009	0.046	0.034	0.049
rs6950023	G	0.001	0.025	0.003	0.021	0.013	0.050	0.144	0.054
rs6965401	G	-0.037	0.040	-0.023	0.034	0.073	0.081	0.054	0.086
rs7096937	T	-0.010	0.022	0.027	0.019	-0.090	0.044	-0.085	0.047
rs71115649	A	-0.010	0.022	-0.041	0.018	0.093	0.043	0.120	0.046
rs71584764	TA	0.001	0.024	0.022	0.020	0.004	0.049	-0.077	0.052
rs71586027	TATCTC	0.006	0.020	0.017	0.017	0.039	0.039	0.106	0.042
rs7175361	A	-0.036	0.027	0.015	0.023	0.085	0.054	0.142	0.057
rs7210574	C	-0.007	0.021	0.003	0.018	0.062	0.042	0.088	0.045
rs7254776	C	-0.022	0.021	-0.006	0.018	-0.019	0.041	-0.028	0.044
rs72663907	T	-0.011	0.032	-0.012	0.027	0.016	0.065	-0.036	0.069
rs72683923	C	-0.064	0.072	0.038	0.060	0.600	0.143	0.204	0.152
rs72708162	T	-0.074	0.037	0.012	0.031	0.184	0.073	0.079	0.077
rs72729610	A	-0.055	0.026	-0.032	0.022	0.150	0.053	0.151	0.056
rs72753908	C	-0.116	0.036	-0.053	0.031	0.259	0.075	0.237	0.080
rs7286550	G	-0.027	0.021	-0.018	0.018	-0.043	0.043	-0.117	0.046

rs72948115	C	0.050	0.034	0.056	0.029	-0.333	0.067	-0.274	0.071
rs73109480	T	0.031	0.038	-0.051	0.033	-0.153	0.077	-0.224	0.082
rs7314285	G	-0.072	0.040	0.058	0.032	0.001	0.078	0.198	0.083
rs73266316	T	0.010	0.034	-0.042	0.030	-0.007	0.069	-0.017	0.074
rs73547906	C	-0.017	0.015	0.013	0.013	-0.006	0.031	0.055	0.033
rs73631501	T	0.006	0.023	-0.003	0.020	0.003	0.047	0.006	0.050
rs738409	G	0.043	0.023	-0.003	0.020	-0.036	0.047	-0.139	0.051
rs73909848	G	-0.013	0.038	0.008	0.032	0.044	0.076	0.100	0.081
rs7438888	C	-0.065	0.153	-0.008	0.126	0.124	0.296	0.056	0.315
rs749761903	A	-0.046	0.023	0.027	0.019	0.294	0.046	0.159	0.049
rs75130744	G	-0.060	0.037	0.022	0.033	0.196	0.077	0.226	0.082
rs75170914	T	0.014	0.022	-0.024	0.019	0.044	0.045	0.094	0.048
rs75349541	C	0.007	0.029	0.043	0.025	0.053	0.058	0.049	0.062
rs753645751	G	0.047	0.025	-0.029	0.021	-0.521	0.050	-0.551	0.053
rs7540115	C	0.027	0.026	-0.048	0.021	-0.103	0.051	-0.054	0.054
rs754959778	CGT	0.002	0.021	-0.002	0.018	0.073	0.043	0.055	0.046
rs757253787	T	-0.050	0.023	0.042	0.019	0.020	0.045	-0.076	0.048
rs7623513	C	-0.013	0.030	-0.028	0.025	0.153	0.060	0.218	0.064
rs762450647	CT	-0.034	0.023	0.033	0.020	-0.051	0.047	-0.094	0.050
rs7631981	G	-0.057	0.022	-0.019	0.018	0.292	0.044	0.255	0.046
rs7655064	T	0.057	0.030	0.017	0.025	-0.214	0.059	-0.309	0.063
rs768159759	A	0.018	0.037	-0.035	0.032	-0.092	0.075	-0.065	0.080
rs768651403	GT	-0.049	0.024	-0.075	0.021	0.117	0.050	0.009	0.053
rs76895963	G	-0.088	0.087	-0.102	0.075	-0.033	0.171	0.024	0.182
rs7694379	G	-0.030	0.020	-0.018	0.017	0.050	0.040	-0.009	0.042
rs769447487	T	-0.020	0.021	-0.027	0.018	0.072	0.043	0.102	0.046
rs771193934	AGGCATGCTGCCAAGAAT	-0.024	0.021	0.020	0.018	0.061	0.042	0.045	0.044
rs771435780	G	-0.036	0.022	0.048	0.019	0.029	0.045	0.048	0.048
rs7735249	C	0.047	0.032	-0.118	0.025	-0.466	0.062	-0.467	0.067
rs773816354	TAACAGGAGTTAAAAGTGTCG	0.003	0.020	-0.036	0.017	-0.092	0.040	-0.059	0.042
rs775181992	A	-0.032	0.024	0.015	0.020	0.225	0.048	0.321	0.051
rs7780562	C	0.026	0.025	0.025	0.021	0.041	0.049	-0.002	0.053
rs778239811	T	-0.008	0.016	-0.019	0.013	0.106	0.032	0.089	0.034
rs778571122	GTGTTTTTTTGTTTTTTGTTTT	0.023	0.020	-0.026	0.017	0.076	0.041	0.106	0.043
rs780309846	AAAAAAC	0.005	0.014	0.005	0.012	0.018	0.028	-0.022	0.030
rs7808613	C	0.045	0.023	-0.012	0.019	-0.055	0.046	-0.057	0.049
rs78319058	T	-0.005	0.066	-0.030	0.057	-0.172	0.132	-0.250	0.141
rs78444298	G	-0.109	0.068	-0.018	0.060	1.087	0.143	1.004	0.153
rs78890745	A	-0.008	0.032	-0.055	0.027	0.008	0.064	0.012	0.068
rs7892835	G	0.009	0.020	0.020	0.017	0.020	0.040	-0.013	0.042

rs79287178	G	-0.010	0.062	-0.099	0.051	0.100	0.125	0.174	0.133
rs79354983	A	-0.015	0.033	0.024	0.029	0.048	0.067	0.015	0.071
rs79717793	G	-0.010	0.027	-0.027	0.023	-0.038	0.054	-0.122	0.058
rs8030357	G	-0.022	0.022	0.031	0.018	0.093	0.044	0.085	0.047
rs8038032	G	0.002	0.021	0.018	0.018	-0.040	0.042	-0.056	0.045
rs8038465	T	-0.031	0.020	0.018	0.017	0.055	0.040	0.031	0.042
rs8066941	T	0.048	0.023	-0.012	0.019	0.011	0.046	-0.070	0.049
rs8176526	C	0.002	0.022	0.003	0.019	-0.131	0.044	-0.144	0.047
rs820503	C	-0.020	0.028	-0.011	0.024	0.101	0.057	0.095	0.061
rs856534	A	0.018	0.020	-0.015	0.017	-0.177	0.040	-0.195	0.043
rs860262	A	-0.032	0.020	-0.041	0.017	0.083	0.039	0.123	0.042
rs864899	A	0.016	0.020	0.006	0.017	-0.059	0.041	-0.128	0.043
rs876435	G	-0.017	0.020	-0.001	0.017	-0.027	0.041	-0.024	0.043
rs904801	A	-0.006	0.022	0.033	0.019	-0.125	0.045	-0.157	0.048
rs907866	G	0.011	0.020	-0.012	0.017	0.121	0.040	0.149	0.042
rs9266184	T	0.011	0.023	0.006	0.019	-0.047	0.045	-0.068	0.048
rs9379084	G	0.020	0.033	-0.014	0.028	0.298	0.066	0.036	0.070
rs9697210	G	-0.001	0.028	0.021	0.024	-0.016	0.056	-0.043	0.060
rs9738226	G	0.022	0.020	0.020	0.017	0.010	0.041	0.278	0.043
rs9914426	G	0.019	0.020	-0.019	0.017	0.007	0.039	0.076	0.042
rs997907	C	0.011	0.020	-0.031	0.017	-0.070	0.039	-0.050	0.042
X:133611871_AT_A	A	-0.045	0.024	0.041	0.020	0.096	0.047	0.016	0.050

Supplemental Table 6. Association of each SHBG-related genetic variant with CKD and kidney function in women

SNP	Effect.Allele	CKD		Albuminuria		eGFR_cr		eGFR_crcys	
		logOR	se	logOR	se	Beta	Se	Beta	se
1:155867257_CAA_C	C	-0.037	0.021	0.011	0.018	0.093	0.039	0.005	0.040
1:221048577_TGA_T	T	0.007	0.023	0.005	0.020	0.001	0.043	0.022	0.045
1:23747996_GA_G	G	0.005	0.023	0.026	0.019	-0.071	0.042	-0.099	0.044
1:57170378_AATC_A	A	-0.013	0.031	-0.027	0.026	0.055	0.058	0.033	0.059
1:93787087_TA_T	T	0.024	0.027	0.009	0.023	-0.030	0.051	0.006	0.052
10:65158772_AAAG_A	A	0.008	0.020	-0.047	0.017	0.058	0.037	-0.085	0.038
12:103483327_AT_A	AT	0.000	0.020	0.014	0.017	-0.053	0.037	-0.059	0.038
12:12562340_GT_G	G	0.013	0.028	0.027	0.024	-0.021	0.052	-0.051	0.054
12:26614614_CAT_C	C	-0.038	0.025	0.003	0.021	0.047	0.047	0.107	0.048
13:50565104_ACT_A	A	0.012	0.074	0.039	0.062	-0.842	0.138	-0.813	0.142
15:43025006_CT_C	CT	-0.097	0.297	0.069	0.265	-0.309	0.553	-0.352	0.569
15:51052455_CT_C	C	0.028	0.021	-0.026	0.018	-0.029	0.039	-0.028	0.041
15:53094375_TTTTG_T	TTTTG	-0.051	0.030	0.001	0.026	0.143	0.058	0.153	0.060
17:48627860_CCT_C	C	0.012	0.023	-0.012	0.019	-0.177	0.043	-0.197	0.044
19:7223973_TTTG_T	TTTG	-0.001	0.020	0.000	0.017	-0.051	0.037	-0.057	0.039
2:191559843_GT_G	GT	-0.003	0.024	-0.053	0.020	0.034	0.045	-0.028	0.047
2:208469213_ATCTT_A	ATCTT	0.012	0.025	0.025	0.021	0.153	0.047	0.042	0.049
3:122361173_TTTTTC_T	TTTTTC	0.043	0.024	-0.038	0.020	-0.040	0.044	-0.011	0.045
4:103877471_TA_T	T	-0.028	0.020	0.005	0.017	0.173	0.037	0.207	0.038
6:130386212_GGAGA_G	GGAGA	0.045	0.021	-0.022	0.018	-0.244	0.039	-0.215	0.041
7:130438531_CTTTTTT_C	C	0.012	0.020	-0.038	0.017	0.005	0.037	-0.072	0.038
8:59415339_TTG_T	T	-0.005	0.021	0.015	0.018	-0.053	0.039	-0.078	0.040
8:81457499_CA_C	C	0.009	0.024	-0.022	0.021	-0.150	0.046	-0.153	0.047
9:127474886_CA_C	CA	-0.024	0.021	0.044	0.017	-0.056	0.038	-0.041	0.039
rs1005421	C	-0.009	0.020	-0.050	0.017	-0.027	0.038	-0.027	0.039
rs10095380	G	-0.036	0.026	0.013	0.023	0.026	0.050	-0.065	0.051
rs10095930	C	-0.023	0.020	0.019	0.017	0.014	0.038	0.019	0.039
rs10108150	A	-0.012	0.020	0.010	0.017	-0.123	0.037	-0.075	0.038
rs10153315	T	-0.027	0.020	0.013	0.017	0.148	0.037	0.127	0.038
rs10189479	A	-0.045	0.020	0.013	0.017	0.106	0.037	0.237	0.038
rs10238028	G	0.083	0.038	0.032	0.033	-0.154	0.074	-0.107	0.076
rs1033667	T	-0.033	0.022	-0.012	0.018	0.018	0.040	0.009	0.041
rs1037169	T	-0.005	0.021	-0.015	0.018	0.001	0.040	-0.028	0.041
rs10461018	T	-0.032	0.020	0.031	0.017	0.078	0.037	0.055	0.038
rs1047891	A	0.094	0.021	-0.003	0.018	-0.661	0.039	-0.043	0.041
rs10486782	A	-0.008	0.023	-0.012	0.020	-0.001	0.043	-0.006	0.045
rs10489206	C	0.029	0.024	0.031	0.020	-0.097	0.044	-0.086	0.045
rs10511002	A	0.004	0.022	-0.008	0.018	0.082	0.041	0.085	0.042

rs10622246	ATTTT	0.025	0.020	0.017	0.017	-0.004	0.037	0.041	0.038
rs10747689	T	-0.022	0.021	-0.024	0.017	-0.055	0.038	-0.062	0.039
rs10774095	A	-0.012	0.026	0.026	0.022	0.140	0.048	0.067	0.049
rs10815276	G	0.024	0.020	0.015	0.017	0.087	0.037	0.102	0.038
rs10857228	T	0.035	0.022	0.002	0.019	-0.156	0.042	-0.084	0.043
rs10880868	C	-0.015	0.024	-0.003	0.020	-0.105	0.045	-0.155	0.046
rs10883451	C	0.015	0.020	0.025	0.017	0.081	0.037	0.147	0.038
rs10893876	C	-0.049	0.023	0.019	0.020	0.180	0.044	0.159	0.045
rs10939934	A	-0.030	0.020	-0.004	0.017	0.097	0.037	0.076	0.038
rs10961205	A	0.015	0.020	-0.033	0.017	-0.020	0.037	0.019	0.038
rs11021232	T	0.004	0.026	0.005	0.022	0.002	0.048	0.005	0.049
rs11047237	A	0.035	0.054	0.072	0.046	-0.051	0.099	-0.005	0.102
rs11054861	A	-0.033	0.060	0.006	0.051	0.122	0.113	0.062	0.116
rs11078597	C	0.033	0.025	0.081	0.021	0.043	0.047	-0.042	0.048
rs11079685	A	-0.027	0.020	0.002	0.017	0.047	0.037	0.067	0.038
rs11103377	G	-0.020	0.020	-0.006	0.017	0.113	0.037	-0.038	0.038
rs111270317	CGTGT	-0.023	0.023	-0.038	0.019	0.108	0.042	0.157	0.043
rs111288118	C	0.005	0.024	0.013	0.020	-0.068	0.044	-0.027	0.045
rs11130982	T	0.002	0.022	0.018	0.018	-0.071	0.041	-0.068	0.042
rs11186719	A	0.001	0.020	0.007	0.017	0.025	0.037	-0.009	0.038
rs11188601	C	0.008	0.020	0.021	0.017	0.066	0.038	0.106	0.039
rs112332688	A	-0.021	0.023	0.033	0.020	0.053	0.043	0.070	0.045
rs1126161	G	0.001	0.021	0.009	0.018	0.017	0.039	0.006	0.040
rs1128249	T	-0.017	0.020	-0.025	0.017	-0.003	0.037	-0.056	0.039
rs112966033	TACACAC	0.025	0.021	-0.031	0.018	-0.093	0.040	0.001	0.041
rs113408476	A	-0.039	0.034	0.019	0.029	0.114	0.064	0.066	0.066
rs11376788	AC	0.004	0.024	0.023	0.020	-0.067	0.045	-0.047	0.046
rs114165349	G	0.034	0.067	-0.006	0.055	-0.700	0.122	-0.535	0.125
rs114816312	T	0.045	0.108	0.125	0.089	0.046	0.207	-0.069	0.213
rs114949263	C	-0.049	0.032	0.018	0.026	0.300	0.058	0.259	0.060
rs115209326	T	0.126	0.158	-0.219	0.155	-1.700	0.311	-1.959	0.321
rs11539938	C	-0.031	0.022	0.028	0.018	-0.007	0.040	-0.004	0.042
rs11556924	T	-0.014	0.020	0.016	0.017	0.204	0.038	0.239	0.039
rs11601507	A	-0.003	0.038	-0.017	0.033	-0.153	0.072	-0.258	0.074
rs11621792	C	0.020	0.020	-0.013	0.017	-0.145	0.037	-0.176	0.038
rs116279971	C	-0.057	0.121	0.064	0.098	-0.213	0.225	-0.499	0.231
rs11637595	C	0.008	0.022	-0.016	0.019	-0.108	0.042	-0.077	0.043
rs11641834	C	0.010	0.020	0.008	0.017	0.073	0.037	0.036	0.038
rs11664106	T	-0.033	0.021	0.013	0.018	0.039	0.040	-0.002	0.041
rs11666245	G	-0.024	0.046	0.050	0.040	0.262	0.087	0.311	0.090
rs11668201	T	-0.023	0.025	-0.005	0.021	-0.010	0.047	0.027	0.049
rs11688682	C	0.003	0.024	-0.029	0.020	-0.077	0.044	-0.032	0.046
rs11690748	C	0.014	0.020	-0.016	0.017	-0.075	0.038	-0.095	0.039

rs11720108	T	-0.024	0.023	0.015	0.019	0.077	0.042	0.115	0.044
rs11738093	A	0.020	0.023	-0.041	0.019	-0.394	0.042	-0.297	0.044
rs117522510	A	-0.041	0.136	-0.023	0.113	0.202	0.246	0.415	0.254
rs11774700	C	-0.005	0.022	-0.028	0.018	-0.105	0.040	-0.092	0.041
rs11780978	A	0.037	0.020	0.002	0.017	-0.052	0.038	0.033	0.039
rs11791747	G	0.006	0.022	-0.031	0.018	0.028	0.040	0.035	0.042
rs11830764	C	-0.019	0.039	0.029	0.033	0.004	0.073	0.174	0.076
rs11967262	C	-0.028	0.020	-0.015	0.017	0.000	0.037	-0.037	0.038
rs12012896	A	-0.009	0.020	-0.033	0.017	0.024	0.037	0.064	0.039
rs12138803	C	-0.004	0.022	0.039	0.019	0.011	0.041	-0.059	0.042
rs1223796	G	0.015	0.026	0.023	0.022	-0.094	0.049	-0.029	0.051
rs12280075	G	0.023	0.021	-0.012	0.018	-0.047	0.039	-0.013	0.041
rs1229498	T	0.014	0.023	0.050	0.019	0.064	0.042	0.048	0.044
rs12311848	G	-0.014	0.021	0.015	0.018	0.154	0.039	0.187	0.040
rs12438742	G	0.042	0.020	0.000	0.017	-0.036	0.037	-0.027	0.038
rs12454712	C	0.021	0.020	-0.019	0.017	-0.080	0.038	-0.001	0.039
rs12543287	C	-0.010	0.020	0.008	0.017	0.057	0.038	0.071	0.039
rs12593818	T	0.020	0.022	0.008	0.019	-0.047	0.042	-0.060	0.043
rs1260326	C	0.055	0.020	-0.054	0.017	-0.500	0.037	-0.454	0.039
rs12613243	T	-0.024	0.040	0.011	0.034	-0.168	0.075	-0.181	0.077
rs12624244	A	0.016	0.040	-0.065	0.033	-0.047	0.075	-0.049	0.077
rs12787996	C	-0.038	0.021	-0.025	0.018	0.045	0.039	-0.007	0.040
rs12797706	A	-0.037	0.024	-0.041	0.020	0.014	0.044	0.125	0.045
rs12804411	T	-0.027	0.023	0.038	0.020	-0.038	0.043	-0.007	0.045
rs12864658	T	0.023	0.043	-0.012	0.038	0.058	0.083	0.043	0.085
rs12906447	C	-0.011	0.020	-0.005	0.017	0.056	0.037	-0.001	0.038
rs13018007	G	0.064	0.037	0.019	0.032	-0.133	0.070	-0.102	0.072
rs13042148	C	0.058	0.028	0.008	0.023	-0.176	0.051	-0.176	0.052
rs13108218	A	0.009	0.020	0.037	0.017	0.181	0.038	0.156	0.039
rs13150068	A	0.012	0.020	0.003	0.017	0.024	0.037	0.012	0.038
rs13200245	A	-0.031	0.027	-0.004	0.023	0.001	0.050	0.048	0.052
rs13237750	C	0.043	0.048	-0.029	0.039	0.122	0.087	0.155	0.090
rs1330307	A	0.024	0.020	-0.005	0.017	-0.064	0.037	-0.066	0.038
rs13303359	C	-0.010	0.020	-0.017	0.017	0.025	0.037	0.016	0.038
rs13379043	C	0.036	0.023	0.014	0.019	-0.215	0.042	-0.162	0.044
rs13394092	C	0.005	0.026	-0.054	0.023	-0.095	0.049	-0.043	0.050
rs138204164	C	0.013	0.030	0.031	0.025	-0.119	0.055	-0.155	0.057
rs139974673	T	-0.043	0.061	-0.145	0.050	-0.134	0.117	-0.153	0.120
rs140302625	T	0.002	0.035	-0.022	0.030	0.159	0.065	0.114	0.067
rs140312320	G	-0.056	0.038	0.038	0.033	0.352	0.073	0.350	0.075
rs140584594	A	-0.007	0.022	0.027	0.019	-0.037	0.041	-0.027	0.042
rs1418652	C	0.031	0.020	0.005	0.017	-0.122	0.038	-0.066	0.039
rs1433210	C	-0.033	0.023	-0.015	0.019	0.057	0.043	-0.050	0.044

rs143378550	A	-0.015	0.077	-0.037	0.066	0.065	0.143	-0.237	0.147
rs144293483	AC	-0.015	0.045	-0.042	0.039	-0.033	0.083	-0.077	0.085
rs146104952	CCAAAAAATA	-0.026	0.032	0.018	0.027	-0.060	0.059	-0.067	0.061
rs147153202	G	0.002	0.029	-0.029	0.024	0.007	0.054	0.123	0.056
rs148911629	G	0.184	0.113	0.134	0.093	-0.393	0.195	-0.333	0.200
rs150115323	G	-0.001	0.020	0.018	0.017	-0.015	0.038	0.025	0.039
rs150584036	TAC	-0.019	0.029	0.047	0.024	0.012	0.053	0.116	0.055
rs1530439	T	-0.054	0.022	-0.003	0.018	-0.044	0.040	-0.051	0.041
rs1634791	A	0.036	0.021	-0.014	0.017	-0.212	0.038	-0.415	0.040
rs1650527	C	0.007	0.024	0.010	0.020	0.037	0.044	-0.025	0.045
rs1684608	C	-0.013	0.025	-0.001	0.021	-0.007	0.046	-0.018	0.048
rs16995626	C	-0.024	0.038	-0.074	0.033	0.073	0.071	0.067	0.073
rs17128091	C	-0.034	0.023	-0.004	0.019	0.083	0.042	0.098	0.043
rs17202341	G	-0.031	0.021	-0.005	0.017	0.064	0.038	0.034	0.039
rs1730862	G	0.000	0.021	-0.019	0.018	-0.075	0.039	-0.183	0.040
rs1738386	C	0.003	0.020	0.004	0.017	-0.017	0.038	-0.055	0.039
rs1741344	T	-0.026	0.020	-0.023	0.017	-0.005	0.038	0.008	0.039
rs174537	G	-0.010	0.021	-0.030	0.017	-0.130	0.038	-0.274	0.040
rs17492269	G	0.008	0.026	0.021	0.022	0.143	0.049	0.153	0.050
rs17580	A	-0.033	0.046	0.030	0.038	0.260	0.085	0.089	0.087
rs17583875	A	-0.020	0.068	0.159	0.054	0.100	0.127	-0.063	0.131
rs17616365	G	-0.018	0.055	-0.015	0.047	-0.219	0.104	-0.316	0.107
rs17669311	G	0.013	0.021	0.003	0.017	-0.003	0.038	0.002	0.040
rs1782652	T	-0.024	0.021	-0.016	0.017	-0.105	0.038	-0.114	0.040
rs17887160	C	-0.017	0.022	-0.028	0.019	0.030	0.041	0.067	0.042
rs1801282	G	-0.024	0.030	-0.052	0.026	-0.069	0.056	-0.009	0.058
rs183015141	G	0.120	0.069	0.032	0.057	-0.147	0.123	-0.331	0.127
rs185044544	T	0.021	0.065	0.019	0.055	-0.212	0.119	-0.142	0.123
rs1870927	A	0.017	0.020	-0.025	0.017	-0.053	0.038	-0.096	0.039
rs1872992	A	-0.028	0.023	0.020	0.019	-0.066	0.043	-0.047	0.044
rs191591035	G	0.166	0.387	-0.043	0.297	-0.158	0.662	-0.840	0.681
rs1962883	C	0.030	0.021	-0.039	0.017	-0.039	0.038	-0.083	0.039
rs198358	C	-0.043	0.023	-0.003	0.019	-0.023	0.042	-0.143	0.044
rs199607859	T	0.004	0.020	0.007	0.017	0.000	0.037	-0.048	0.039
rs2009310	T	-0.031	0.020	0.036	0.017	0.031	0.037	0.088	0.038
rs201468966	C	-0.022	0.023	0.000	0.020	0.012	0.044	-0.004	0.045
rs2018519	C	0.018	0.025	0.039	0.021	0.050	0.047	-0.016	0.049
rs201874554	A	0.049	0.044	0.013	0.037	-0.105	0.081	-0.177	0.084
rs202021413	TA	-0.020	0.022	-0.061	0.019	-0.014	0.041	-0.018	0.042
rs202200760	C	0.040	0.062	0.001	0.054	-0.235	0.119	-0.268	0.122
rs2057655	A	-0.045	0.026	0.022	0.021	0.273	0.047	0.201	0.049
rs2064074	A	0.031	0.020	-0.042	0.017	0.040	0.037	0.039	0.038
rs2068888	A	0.026	0.020	-0.018	0.017	-0.251	0.037	-0.298	0.038

rs2176040	A	0.021	0.020	-0.044	0.017	-0.042	0.038	-0.047	0.039
rs2207132	G	-0.062	0.053	-0.093	0.044	-0.247	0.101	-0.307	0.104
rs2239222	G	-0.021	0.021	0.007	0.018	0.056	0.039	0.109	0.040
rs2246223	T	0.017	0.020	0.005	0.017	-0.037	0.037	-0.039	0.038
rs2288926	A	0.014	0.021	-0.005	0.018	0.084	0.040	0.136	0.041
rs2299055	A	0.044	0.030	0.016	0.026	0.011	0.057	-0.058	0.059
rs2364717	T	0.040	0.020	0.024	0.017	-0.221	0.037	-0.167	0.038
rs2438109	C	0.022	0.021	0.007	0.018	0.106	0.039	0.120	0.040
rs2498786	C	0.005	0.020	-0.014	0.017	-0.146	0.038	-0.134	0.039
rs2525570	G	-0.025	0.020	-0.016	0.017	0.090	0.037	-0.005	0.039
rs267733	A	0.039	0.027	0.022	0.023	-0.341	0.050	-0.421	0.051
rs2723555	T	-0.005	0.020	-0.006	0.017	-0.018	0.037	-0.095	0.038
rs275177	C	-0.019	0.029	0.015	0.024	0.080	0.053	0.031	0.055
rs28360642	A	-0.008	0.027	-0.008	0.023	-0.191	0.050	-0.160	0.052
rs28459049	C	-0.017	0.024	-0.033	0.020	0.018	0.045	0.054	0.047
rs28636815	G	-0.053	0.020	0.025	0.017	0.361	0.038	0.509	0.039
rs28712547	G	-0.032	0.021	-0.028	0.018	0.023	0.039	-0.099	0.040
rs28925904	C	-0.146	0.058	-0.054	0.051	0.601	0.116	0.453	0.120
rs28929470	A	0.070	0.141	0.183	0.114	0.524	0.274	0.604	0.282
rs28929474	T	-0.030	0.070	0.158	0.055	0.013	0.129	-0.662	0.133
rs2915023	G	0.000	0.033	0.012	0.028	0.011	0.062	-0.002	0.064
rs2924808	C	-0.038	0.021	0.006	0.017	0.142	0.038	0.127	0.040
rs2925979	C	-0.021	0.021	-0.020	0.018	0.101	0.040	0.074	0.041
rs2970871	T	-0.011	0.020	-0.034	0.017	-0.044	0.037	-0.070	0.038
rs2980858	C	0.019	0.021	0.003	0.018	-0.187	0.040	-0.206	0.041
rs2986669	A	-0.009	0.021	-0.001	0.018	0.047	0.039	0.059	0.040
rs3001032	C	0.007	0.021	-0.014	0.018	-0.012	0.039	-0.066	0.040
rs3018695	A	0.005	0.020	0.005	0.017	-0.157	0.037	-0.183	0.038
rs34154818	A	-0.013	0.020	0.006	0.017	0.073	0.037	0.010	0.038
rs34184867	C	-0.028	0.020	-0.025	0.017	0.003	0.037	0.033	0.038
rs34255979	T	0.008	0.030	0.008	0.026	-0.106	0.057	-0.076	0.058
rs34311866	T	-0.029	0.026	-0.006	0.022	0.062	0.048	0.068	0.050
rs34331968	T	0.020	0.020	0.001	0.017	0.071	0.037	0.018	0.038
rs34385891	AT	-0.019	0.020	0.012	0.017	-0.067	0.037	-0.045	0.038
rs34499031	T	0.002	0.022	0.037	0.019	0.054	0.042	0.116	0.043
rs34651	T	0.008	0.036	0.010	0.031	0.169	0.067	0.141	0.069
rs35143646	T	-0.008	0.021	0.009	0.018	0.086	0.039	0.078	0.040
rs35198068	T	-0.013	0.022	-0.010	0.018	0.032	0.040	0.042	0.042
rs35233014	C	-0.019	0.023	-0.011	0.019	0.078	0.043	0.025	0.044
rs35475471	CAT	-0.040	0.021	-0.019	0.018	0.174	0.040	0.226	0.041
rs35568851	CT	-0.034	0.020	0.006	0.017	0.063	0.037	-0.051	0.038
rs35696875	TCA	0.034	0.022	-0.016	0.018	-0.117	0.040	-0.126	0.041
rs3733321	T	-0.005	0.021	-0.007	0.017	0.113	0.039	0.057	0.040

rs3747207	A	-0.043	0.024	-0.013	0.020	-0.039	0.045	-0.075	0.046
rs3747367	A	-0.014	0.021	-0.004	0.018	0.047	0.040	-0.005	0.041
rs3749228	C	-0.041	0.042	0.002	0.035	-0.007	0.077	-0.039	0.079
rs3751129	A	-0.009	0.024	-0.003	0.020	-0.029	0.045	-0.061	0.046
rs3768420	C	0.008	0.024	-0.012	0.020	0.000	0.045	0.016	0.046
rs3782735	A	-0.019	0.021	-0.001	0.018	0.078	0.039	0.119	0.040
rs390408	A	0.018	0.027	0.014	0.023	0.078	0.050	-0.059	0.052
rs40270	A	-0.006	0.023	-0.003	0.020	-0.016	0.044	0.010	0.045
rs4077285	G	-0.029	0.034	0.056	0.029	0.052	0.064	0.003	0.066
rs4092465	G	0.035	0.021	-0.027	0.018	0.002	0.039	-0.048	0.040
rs4122352	A	0.025	0.022	-0.008	0.018	-0.004	0.040	0.001	0.041
rs41280463	G	-0.039	0.026	0.004	0.022	0.147	0.049	0.091	0.050
rs4149056	T	0.047	0.028	-0.047	0.023	-0.255	0.051	-0.420	0.053
rs4264433	T	-0.003	0.020	-0.011	0.017	-0.063	0.037	-0.027	0.038
rs4307773	T	0.025	0.020	0.062	0.017	-0.122	0.037	-0.121	0.038
rs4327143	A	-0.006	0.022	0.015	0.018	0.091	0.041	0.040	0.042
rs4450871	G	-0.005	0.020	0.024	0.017	-0.010	0.037	-0.048	0.038
rs4530527	C	-0.007	0.021	0.014	0.017	0.028	0.038	0.038	0.039
rs4563785	G	0.041	0.036	-0.016	0.030	-0.059	0.066	-0.102	0.068
rs469721	C	-0.015	0.025	-0.021	0.021	0.098	0.046	0.059	0.047
rs4709746	T	0.016	0.029	0.016	0.025	-0.095	0.054	-0.081	0.056
rs4804669	A	-0.038	0.024	-0.031	0.021	0.051	0.045	0.058	0.047
rs4810580	T	-0.019	0.024	-0.012	0.020	0.068	0.045	0.054	0.046
rs4830411	G	-0.016	0.021	0.004	0.018	0.041	0.039	0.050	0.041
rs4837794	T	0.015	0.021	0.026	0.018	-0.091	0.039	-0.138	0.040
rs4871015	A	0.002	0.020	-0.001	0.017	0.044	0.038	0.033	0.039
rs4876993	T	-0.020	0.020	-0.021	0.017	0.070	0.037	0.059	0.038
rs4976033	A	-0.036	0.020	0.006	0.017	0.157	0.038	0.164	0.039
rs5112	G	-0.008	0.023	0.017	0.020	0.064	0.043	0.040	0.045
rs5117	C	0.005	0.023	-0.001	0.020	0.172	0.043	0.150	0.044
rs528350911	C	-0.027	0.152	-0.065	0.124	-0.317	0.284	-0.038	0.292
rs528806375	A	0.039	0.021	0.015	0.018	0.011	0.040	0.024	0.041
rs545206972	C	0.129	0.129	0.198	0.112	-0.164	0.227	-0.062	0.234
rs548235873	ATTT	-0.022	0.024	0.043	0.020	0.018	0.045	-0.024	0.046
rs549664712	C	-0.034	0.025	0.012	0.021	0.217	0.047	0.265	0.049
rs550767741	ATTTTTTTTTT TTTTTTTTTT TTTTTTTTTT	-0.003	0.022	-0.012	0.019	-0.004	0.041	0.039	0.042
rs555234816	T	-0.113	0.036	-0.033	0.031	0.158	0.069	0.124	0.071
rs555754	A	0.048	0.020	0.009	0.017	-0.156	0.037	-0.128	0.038
rs560436873	A	0.042	0.310	-0.276	0.222	0.000	0.557	-0.038	0.573
rs56332871	A	0.015	0.022	-0.013	0.019	-0.061	0.041	-0.143	0.042
rs568656	C	0.012	0.022	-0.010	0.019	0.031	0.042	-0.031	0.043
rs57158761	A	-0.056	0.020	-0.020	0.017	0.257	0.037	0.209	0.038

rs5750131	G	-0.008	0.020	0.002	0.017	0.026	0.038	0.032	0.039
rs5753111	T	-0.073	0.022	-0.048	0.019	-0.059	0.040	-0.014	0.042
rs5791099	TA	-0.003	0.021	-0.005	0.018	0.093	0.040	0.060	0.041
rs5813220	G	-0.018	0.021	-0.015	0.018	0.077	0.039	0.087	0.040
rs5820605	CT	0.023	0.020	-0.007	0.017	0.043	0.037	0.039	0.038
rs58321169	C	0.029	0.022	0.015	0.019	-0.039	0.042	-0.037	0.043
rs58489806	C	-0.065	0.034	0.015	0.030	0.354	0.065	0.362	0.067
rs59774409	T	-0.070	0.036	-0.025	0.031	0.200	0.066	0.168	0.068
rs59837038	T	-0.020	0.023	-0.025	0.019	0.058	0.043	0.097	0.044
rs60018147	G	0.026	0.033	0.004	0.028	-0.030	0.063	-0.040	0.064
rs6058067	G	0.010	0.021	0.003	0.018	0.155	0.040	0.083	0.041
rs6073431	T	0.039	0.020	0.002	0.017	-0.013	0.038	-0.058	0.039
rs6088776	T	-0.018	0.028	-0.013	0.024	0.143	0.053	0.052	0.055
rs6129778	A	-0.010	0.025	-0.023	0.021	-0.028	0.047	0.044	0.048
rs61755050	T	-0.172	0.115	-0.161	0.098	0.285	0.232	0.127	0.239
rs61830291	C	-0.012	0.033	0.015	0.028	0.370	0.062	0.301	0.064
rs62128735	A	-0.018	0.021	0.015	0.018	-0.057	0.040	-0.008	0.041
rs62186584	C	0.012	0.023	0.016	0.019	0.032	0.042	-0.050	0.044
rs62271373	T	0.057	0.045	-0.026	0.036	-0.033	0.081	0.083	0.083
rs62303689	C	-0.048	0.029	-0.008	0.025	0.055	0.056	0.036	0.057
rs62486442	G	-0.003	0.021	0.003	0.018	0.009	0.040	0.043	0.041
rs62515079	G	-0.057	0.075	0.073	0.060	0.077	0.136	0.262	0.140
rs62580766	T	-0.002	0.025	0.040	0.021	-0.002	0.047	0.053	0.049
rs6531735	G	-0.001	0.020	0.045	0.017	0.032	0.037	0.012	0.038
rs6546096	A	0.040	0.022	0.014	0.019	-0.165	0.042	-0.078	0.043
rs6706	T	0.024	0.025	0.001	0.021	-0.002	0.047	0.025	0.048
rs6736913	A	0.004	0.068	0.068	0.056	0.017	0.127	-0.094	0.130
rs67651018	A	0.034	0.021	-0.002	0.018	0.024	0.040	0.057	0.041
rs6772177	C	-0.014	0.026	0.006	0.022	0.164	0.049	0.238	0.051
rs67890964	C	0.022	0.020	-0.006	0.017	-0.117	0.038	-0.066	0.039
rs6792725	G	0.026	0.023	-0.019	0.019	0.054	0.042	0.074	0.044
rs68002561	G	-0.026	0.035	0.036	0.029	0.125	0.065	0.071	0.067
rs6803518	T	-0.032	0.023	-0.043	0.020	0.002	0.044	-0.058	0.045
rs6831257	G	0.018	0.021	0.010	0.018	-0.028	0.039	-0.069	0.040
rs6860245	C	-0.026	0.023	-0.028	0.019	-0.030	0.043	0.022	0.044
rs687339	C	0.009	0.023	0.019	0.020	-0.152	0.044	-0.161	0.045
rs6879874	T	0.042	0.022	-0.012	0.019	-0.041	0.041	-0.155	0.042
rs696825	T	0.021	0.022	-0.013	0.019	-0.089	0.042	-0.107	0.043
rs7139079	A	-0.027	0.020	0.042	0.017	0.029	0.037	0.210	0.039
rs71468663	A	-0.033	0.046	-0.039	0.039	-0.053	0.087	-0.029	0.090
rs71531849	CT	0.017	0.023	0.006	0.019	0.063	0.043	0.027	0.044
rs7250869	C	0.012	0.021	0.006	0.018	-0.060	0.040	-0.079	0.041
rs7252372	G	0.006	0.020	-0.010	0.017	0.221	0.038	0.223	0.039

rs72648854	C	-0.010	0.064	0.017	0.053	-0.104	0.118	-0.044	0.121
rs72681869	C	-0.217	0.103	0.042	0.079	0.883	0.175	0.215	0.180
rs72766607	T	-0.007	0.069	-0.088	0.057	-0.292	0.129	-0.477	0.133
rs72782727	G	-0.035	0.023	0.000	0.019	0.009	0.043	0.037	0.044
rs72836346	C	-0.036	0.039	-0.025	0.034	-0.028	0.073	-0.089	0.075
rs72844546	C	-0.005	0.021	0.035	0.017	0.094	0.038	0.112	0.040
rs7298820	T	-0.022	0.025	-0.025	0.021	-0.054	0.046	-0.086	0.047
rs73036519	G	0.008	0.022	0.008	0.018	0.042	0.040	0.001	0.041
rs7321688	C	0.010	0.023	0.000	0.020	-0.044	0.043	-0.099	0.045
rs73519353	A	0.080	0.192	0.088	0.163	-0.176	0.374	0.076	0.385
rs73670309	C	-0.007	0.032	-0.025	0.027	-0.118	0.060	-0.071	0.062
rs740516	C	0.042	0.028	0.049	0.024	-0.070	0.052	-0.092	0.053
rs740893	G	-0.028	0.024	0.014	0.021	0.069	0.045	0.015	0.047
rs74090351	A	-0.034	0.039	0.025	0.032	0.084	0.072	0.121	0.074
rs7475279	A	0.008	0.027	-0.011	0.023	-0.074	0.050	-0.106	0.052
rs7481219	A	0.045	0.023	-0.015	0.019	-0.162	0.042	-0.218	0.043
rs7484541	T	-0.042	0.023	-0.012	0.020	0.262	0.043	0.423	0.045
rs75077113	C	-0.027	0.022	-0.034	0.019	-0.013	0.042	-0.158	0.043
rs75130744	G	-0.044	0.038	0.017	0.033	0.260	0.072	0.237	0.074
rs7567544	C	-0.005	0.020	0.005	0.017	0.008	0.037	-0.008	0.039
rs764029425	TG	0.003	0.025	-0.019	0.021	0.073	0.047	0.057	0.049
rs76491020	C	-0.053	0.038	0.063	0.031	0.177	0.070	0.286	0.072
rs76767219	A	0.069	0.052	-0.031	0.046	-0.136	0.100	-0.114	0.103
rs768159759	A	0.058	0.037	0.035	0.031	-0.175	0.070	-0.110	0.072
rs76895963	G	-0.181	0.092	-0.083	0.075	-0.172	0.158	-0.248	0.163
rs7696472	A	-0.024	0.020	-0.002	0.017	-0.035	0.037	-0.023	0.038
rs770971500	C	-0.019	0.027	-0.008	0.023	-0.062	0.051	-0.164	0.053
rs771193934	AGGCATGCTG CCAAGAAT	0.014	0.021	-0.022	0.018	0.035	0.039	-0.001	0.040
rs775181992	A	-0.051	0.024	-0.015	0.020	0.421	0.045	0.472	0.046
rs778571122	GTGTTTTTTT TGTTTTTGTT TT	-0.012	0.020	0.034	0.017	0.163	0.038	0.159	0.039
rs78057960	T	0.001	0.022	-0.005	0.018	-0.010	0.040	-0.005	0.042
rs78058190	G	0.063	0.059	0.021	0.049	-0.130	0.106	-0.154	0.110
rs781996653	TTATTTTATTG	-0.011	0.020	-0.016	0.017	-0.210	0.038	-0.212	0.039
rs784504	C	0.019	0.025	0.027	0.021	0.200	0.047	0.247	0.048
rs78890745	A	0.026	0.031	-0.024	0.027	-0.067	0.059	-0.087	0.061
rs79237700	T	-0.061	0.050	0.023	0.044	0.137	0.096	0.139	0.098
rs79287178	G	-0.009	0.063	-0.054	0.052	-0.008	0.118	-0.024	0.121
rs79391862	A	-0.024	0.085	-0.015	0.072	0.217	0.160	0.266	0.164
rs799157	T	0.026	0.048	0.059	0.040	0.131	0.090	0.130	0.093
rs80126506	A	0.012	0.020	0.006	0.017	-0.041	0.037	-0.050	0.038
rs80235628	G	0.066	0.047	0.004	0.038	0.036	0.084	0.029	0.087
rs8027064	A	0.049	0.053	0.002	0.046	-0.071	0.101	-0.056	0.104

rs8107967	G	0.000	0.020	-0.014	0.017	-0.029	0.037	-0.022	0.038
rs8176741	G	-0.039	0.041	-0.016	0.035	0.371	0.078	0.329	0.080
rs8178824	C	-0.071	0.056	-0.072	0.048	0.044	0.109	0.111	0.112
rs820504	G	-0.046	0.028	-0.040	0.024	0.032	0.054	0.066	0.055
rs848476	G	0.035	0.021	-0.013	0.018	-0.447	0.040	-0.481	0.041
rs858519	C	0.019	0.020	-0.020	0.017	-0.005	0.037	0.070	0.038
rs868655	C	-0.009	0.021	0.013	0.018	-0.114	0.040	-0.081	0.041
rs8756	C	-0.016	0.020	-0.018	0.017	0.079	0.037	0.099	0.038
rs892225	G	-0.037	0.021	0.032	0.017	0.174	0.039	0.116	0.040
rs899865	T	0.012	0.022	-0.002	0.019	-0.031	0.041	0.002	0.042
rs921153	A	0.070	0.026	-0.006	0.023	-0.088	0.050	0.026	0.052
rs925098	G	0.017	0.022	0.033	0.019	-0.094	0.042	-0.082	0.043
rs9366291	C	0.001	0.020	-0.030	0.017	0.126	0.037	0.037	0.038
rs9379084	G	0.003	0.033	-0.023	0.028	0.178	0.062	-0.096	0.064
rs9426829	C	-0.009	0.020	-0.028	0.017	0.057	0.037	0.106	0.038
rs9461793	A	0.001	0.023	-0.006	0.019	-0.082	0.042	-0.172	0.043
rs9556403	G	-0.014	0.021	0.043	0.017	0.066	0.038	0.055	0.039
rs9644032	T	-0.029	0.020	-0.017	0.017	-0.028	0.038	-0.048	0.039
rs9697210	G	-0.007	0.028	0.023	0.024	-0.077	0.052	-0.164	0.054
rs9834503	A	-0.015	0.022	-0.039	0.018	0.101	0.041	0.069	0.042
rs9872754	C	-0.044	0.026	-0.036	0.022	-0.027	0.050	-0.032	0.051
rs9987289	G	-0.023	0.033	0.010	0.029	0.281	0.063	0.113	0.065

Supplemental Table 7. Associations of genetically predicted lower SHBG with CKD and kidney function in the UK Biobank using univariable MR

Outcome	Sex	#SNPs	OR (per standard deviation decrease in genetically predicted SHBG)	95% CI	*p*
CKD	Men	357	**1.28**	**1.07, 1.54**	**0.01**
	Women	359	0.90	0.75, 1.08	0.24
Albuminuria	Men	357	1.03	0.84, 1.28	0.75
	Women	359	1.38	0.90, 1.63	0.32
			Beta	95% CI	*p*
eGFRcr (ml/min per 1.73 m^2)	Men	357	**-0.58**	**-1.02, -0.15**	**0.01**
	Women	359	0.18	-0.20, 0.55	0.28
eGFRcr_cys (ml/min per 1.73 m^2)	Men	357	**-1.17**	**-1.84, -0.50**	**0.001**
	Women	359	0.10	-0.10, 0.29	0.07

CKD, chronic kidney disease; CI, confidence interval; eGFR, estimated glomerular filtration rate. The contamination mixture method was used in the analysis.

Supplemental Table 8. Associations of SHBG with CKD and kidney function in the UK Biobank using excluding genetic variants related to alcohol drinking

Outcome	Sex	#SNPs	OR	95% CI	*p*
CKD	Men	356	**0.75**	**0.63, 0.89**	**0.001**
	Women	358	1.11	0.92, 1.33	0.24
Albuminuria	Men	356	0.97	0.78, 1.19	0.75
	Women	358	0.73	0.61, 1.12	0.32
			Beta	95% CI	*p*
eGFR_cr (ml/min per 1.73 m^2)	Men	356	**0.58**	**0.15, 1.02**	**0.01**
	Women	358	-0.18	-0.56, 0.20	0.28
eGFR_crcys (ml/min per 1.73 m^2)	Men	356	**1.16**	**0.50, 1.84**	**0.001**
	Women	358	-0.11	-0.30, 0.09	0.32

CKD, chronic kidney disease; CI, confidence interval; eGFR, estimated glomerular filtration rate. Inverse variance weighting was used for SHBG and CKD in men, otherwise contamination mixture method was used.

Supplemental Table 9. Associations of SHBG with CKD and kidney function in the UK Biobank using excluding genetic variants related to body mass index

Outcome	Sex	#SNPs	OR	95% CI	*p*
CKD	Men	351	**0.77**	**0.65, 0.92**	**0.003**
	Women	355	1.02	0.85, 1.21	0.87
Albuminuria	Men	351	0.97	0.79, 1.19	0.73
	Women	355	0.71	0.60, 1.09	0.17
			Beta	95% CI	*p*
eGFR_cr (ml/min per 1.73 m^2)	Men	351	**0.50**	**0.02, 0.96**	**0.04**
	Women	355	-0.19	-0.56, 0.19	0.27
eGFR_crcys (ml/min per 1.73 m2)	Men	351	**0.98**	**0.28, 1.75**	**0.01**
	Women	355	-0.34	-0.98, 0.31	0.17

CKD, chronic kidney disease; CI, confidence interval; eGFR, estimated glomerular filtration rate. Inverse variance weighting was used for CKD in men and women, otherwise contamination mixture method was used.

Supplemental Table 10. Associations of genetically predicted SHBG with CKD and kidney function in the UK Biobank using different analysis methods

Outcome	Sex	#SNPs	Methods	OR	95% CI	*p*
CKD	Men	357	Weighted median	**0.77**	**0.60, 0.98**	**0.03**
			MR PRESSO	**0.76**	**0.64, 0.90**	**0.001**
	Women	359	Weighted median	1.21	0.95, 1.54	0.13
			MR PRESSO	0.99	0.84, 1.17	0.93
Albuminuria	Men	357	Weighted median	0.98	0.76, 1.25	0.85
			MR PRESSO	0.95	0.80, 1.13	0.57
	Women	359	Weighted median	0.82	0.63, 1.07	0.14
			MR PRESSO	0.86	0.74, 1.004	0.06
				Beta	95% CI	*p*
eGFR_cr (ml/min per 1.73 m^2)	Men	357	Weighted median	0.39	-0.13, 0.90	0.14
			MR PRESSO	**0.80**	**0.29, 1.31**	**0.002**
	Women	359	Weighted median	-0.20	-0.74, 0.33	0.45
			MR PRESSO	-0.17	-0.66, 0.32	0.49
eGFR_crcys (ml/min per 1.73 m^2)	Men	357	Weighted median	0.38	-0.33, 1.10	0.30
			MR PRESSO	0.35	-0.20, 0.90	0.21
	Women	359	Weighted median	-0.08	-0.70, 0.55	0.81
			MR PRESSO	**-0.63**	**-1.19, -0.07**	**0.03**

CKD, chronic kidney disease; CI, confidence interval; eGFR, estimated glomerular filtration rate; OR, odds ratio

Supplemental Table 11. Associations of genetically predicted SHBG with CKD and kidney function in the UK Biobank using multivariable MR Egger in men

Outcome	#SNPs	OR	95% CI	*p*	Intercept *p*
CKD	460	**0.68**	**0.49, 0.95**	**0.02**	0.04
Albuminuria	460	**0.72**	**0.51, 1.00**	**0.05**	0.55
		Beta	95% CI	*p*	
eGFR_cr (ml/min per 1.73 m^2)	460	**1.84**	**0.58, 3.11**	**0.004**	0.05
eGFR_crcys (ml/min per 1.73 m^2)	460	0.98	-0.40, 2.35	0.16	0.99

CKD, chronic kidney disease; eGFR, estimated glomerular filtration rate

Supplemental Text. Formula of testing sex difference

The formula we used for calculating z-statistic in the test of sex difference:

$z\text{-statistic}=(b_1-b_2)/\mathrm{sqrt}(SEb_1^2+SEb_2^2)$

where b_1 and b_2 are MR estimate (log odds ratio for CKD and albuminuria, beta-coefficient for eGFR) in men and women, SEb_1 and SEb_2 are the standard error of b_1 and b_2