

Supplementary Table 1

SNP and gene information. P-value refers to the test of association, as described in the text. HWE p-value indicates p-value for test of Hardy-Weinberg equilibrium. MAF indicates minor allele frequency in the HapMap ASW (African ancestry in Southwest USA), where available. No SNPs passed both design and QC for DRD5 gene. * indicates statistical significance for the SNP, as described in the text.

Genes	rs ID	Chromosome	Position	p-value	HWE p-value	MAF
POMC	rs1866146	2	25234077	0.630	0.116	0.15
DRD3	rs9817063	3	115329798	0.978	0.441	0.30
	rs3732790	3	115329973	0.127	1.000	0.15
	rs3773678	3	115352768	0.984	1.000	0.46
	rs2630349	3	115356062	0.762	1.000	0.28
	rs167771	3	115358965	0.302	1.000	0.36
	rs324031	3	115360691	0.850	0.723	
	rs167770	3	115362252	0.642	1.000	0.38
	rs226082	3	115363703	0.266	0.645	0.33
	rs9825563	3	115382910	0.530	0.496	0.44
GABRA2	rs573400	4	45946823	0.141	0.651	0.27
	rs3822051	4	45951469	0.998	1.000	
	rs534459	4	45951562	0.752	0.720	0.30
	rs526805	4	45958148	0.674	0.691	0.38
	rs279869	4	46002752	0.850	1.000	
	rs279858	4	46009350	0.474	1.000	0.29
	rs175931	4	46011080	0.236	1.000	
	rs203656	4	46011118	0.226	1.000	0.37
	rs279843	4	46019961	0.125	0.722	0.46
	rs279844	4	46024412	0.586	1.000	
	rs279826	4	46028966	0.542	1.000	0.48
	rs279830	4	46030438	0.580	0.640	
	rs279836	4	46033827	0.708	0.640	
	rs279837	4	46034080	1.000	1.000	0.26
	rs10805145	4	46053088	0.900	0.734	0.49
	* rs11503014	4	46085622	0.0016	0.057	0.31
	rs6856130	4	46087917	0.470	0.307	0.49
SLC6A3 (dopamine transporter)	rs6347	5	1464412	0.922	0.510	0.48
	rs27048	5	1465645	0.652	1.000	0.40
	rs2042449	5	1469646	0.968	0.645	0.19
	rs37020	5	1471374	0.780	0.001	
	rs10040882	5	1471558	0.630	0.645	
	rs460000	5	1485825	0.484	0.345	0.48
	rs3756450	5	1501148	0.530	0.395	0.48
DRD1	rs251937	5	174799526	0.528	0.281	0.31
	rs12518222	5	174799775	0.181	1.000	
	rs4867798	5	174800505	0.189	0.237	0.33
	rs686	5	174801306	0.760	1.000	0.49
	rs4532	5	174802756	0.182	0.116	0.12
OPRM1	rs511435	6	154410240	1.000	0.444	0.24
	rs524731	6	154416785	0.344	1.000	0.17
	rs3823010	6	154420845	0.370	1.000	0.17

	rs3778156	6	154446006	0.574	0.593	
	rs540825	6	154456139	0.986	0.298	0.07
	rs675026	6	154456256	0.278	1.000	0.26
	rs562859	6	154456266	0.047	0.735	0.32
	rs548646	6	154459840	0.186	0.312	0.42
	rs609148	6	154472707	0.500	1.000	
	rs1323041	6	154480873	0.536	0.307	
	rs671531	6	154482434	0.234	0.069	0.36
	rs518596	6	154504070	0.234	0.723	0.47
	rs9479767	6	154518220	0.099	0.734	0.48
	* rs2236256	6	154520132	0.031	1.000	0.49
	rs6902403	6	154520695	0.664	1.000	0.29
	rs4295492	6	154606485	0.486	0.088	0.42
DRD4	rs11246226	11	631191	0.538	1.000	0.45
	rs936465	11	633568	0.876	0.494	
DRD2	rs2234689	11	112783693	0.594	1.000	0.08
	rs2242592	11	112784640	0.360	1.000	0.40
	rs6279	11	112786283	0.159	0.718	
	rs6275	11	112788687	0.210	0.706	0.43
	rs1076560	11	112788898	0.788	1.000	0.11
	rs1800498	11	112796798	0.277	1.000	
	rs4436578	11	112811975	0.986	1.000	0.42
	rs4648318	11	112818599	0.422	1.000	0.46
	rs4936271	11	112823915	0.686	0.102	0.38
	rs4274224	11	112824662	0.790	0.177	0.37
	rs4581480	11	112829684	0.604	0.720	0.50
TPH2	rs11178999	12	70619837	0.500	1.000	0.28
	rs10748186	12	70622255	0.346	1.000	0.25
	rs2129575	12	70626340	1.000	0.449	0.24
	rs1386488	12	70630885	1.000	1.000	0.27
	rs1843809	12	70634965	0.818	0.285	0.38
	rs2220330	12	70637975	1.000	0.116	
	rs1386495	12	70638589	0.794	0.174	
	rs1386494	12	70638810	1.000	0.116	
	rs6582072	12	70640744	1.000	0.593	0.31
	rs1386493	12	70641446	1.000	0.599	0.31
	rs1386492	12	70648532	0.886	0.734	
	rs7978482	12	70652240	0.766	0.498	0.49
	rs4760815	12	70658496	0.888	0.278	
	rs7305115	12	70659129	0.882	0.278	0.38
	rs10506646	12	70682759	0.732	0.712	0.25
	rs11179039	12	70688453	0.786	0.734	0.48
	rs1473473	12	70690645	0.272	0.014	
	rs9325202	12	70693744	0.488	0.734	0.50
	rs4290270	12	70702502	0.464	0.727	
	rs1487279	12	70705573	0.958	0.502	
SLC6A4 (serotonin transporter)	rs7224199	17	25547852	0.972	0.503	0.46
	rs1042173	17	25549137	0.232	0.660	0.24
	rs3794808	17	25555919	0.426	0.492	0.28
	rs140701	17	25562658	0.554	0.184	0.28
	rs8076005	17	25571336	0.076	0.723	0.45

	rs6354	17	25574024	0.252	0.258	0.28
	rs25528	17	25574104	0.155	0.484	0.43
	rs2066713	17	25575791	0.153	0.681	0.37
COMT	rs933271	22	18311407	0.884	1.000	0.43
	rs4633	22	18330235	0.218	1.000	0.30
	rs740601	22	18330763	0.314	0.497	0.37
	rs4646316	22	18332132	0.082	1.000	0.25
	rs165774	22	18332561	0.253	0.074	0.18
ARSA	rs5770953	22	49409804	0.998	0.476	0.40
	rs743616	22	49410905	0.132	0.034	