

Table S1. Description of the VeraCode genotyping assay within 16 candidate genes encoding proteins involved in vesicle fusion for neurotransmitters release (data from HapMap Phase II_April07_dbSNP126_NCBI B36).

Gene	Contig reference	Location	Length (kp)	N° of exons	SNPs	Tag SNPs	SNP ID	Location	Exclusion criteria	Gene Coverage#	Other SNPs within the bin
SNAP25	NM_003081	20p12.2	88.59	8	40	19	rs1889189	5'		1	
							rs6039769	5'			
							rs363039	Intron 1			
							rs363043	Intron 1			rs6077699, rs6514092
							rs12626080	Intron 1			rs363016, rs6039792, rs6104571
							rs6074113	Intron 1			rs363021
							rs362547	Intron 1			rs362569, rs362548, rs363018, rs362562, rs6039795, rs362569, rs362564, rs363022
							rs362570	Intron 1			
							rs6039806	Intron 3			rs6039807, rs6108461, rs362549, rs362987
							rs3025873	Intron 4			
							rs362988	Intron 7			rs6039820
							rs6108464	Intron 7			
STX1A	NM_004603	7q11.23	20.45	10	8	4	rs3787283	Intron 7	Failed	0.75	
							rs4813925	Intron 7			
							rs6074121	3'			
							rs6032845	3'			rs8636
							rs3025879	3'			
							rs6032846	3'			rs4813927
							rs6951030	Intron 1			rs362599, rs362600
							rs941298	Intron 1			
							rs2293485*	Exon 3			
							rs3793243	Intron 3			
							rs4363087	Intron 6			rs4717806, rs867500, rs941299
							rs8067606	5'			
							rs2534724	5'			
VAMP2 VAMP1	NM_014232 NM_014231	17p13.1 12q13.31	3.83 8.4	5 5	4 33	1 8	rs10492096	5'	Failed	1 0.71	rs1001220 rs2278637, rs1150, rs9899533 rs2534722, rs10849466, rs2532485, rs7390, rs1045452, rs2534712, rs1045548 rs10849462, rs12422771, rs11064210, rs1045546, rs12426815 rs2072377, rs7298570
							rs11064213	5'			
							rs2072376	Exon1 5'UTR			
							rs2240867	Intron 1			
							rs2534717	Intron 4			rs2534715, rs1034969, rs1017101, rs2240866, rs2058288, rs2072375, rs2534713, rs2243750, rs2243977, rs2244083, rs2534721, rs2534711
							rs12964	Exon 5			

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Table SI. (Continued)

Gene	Contig reference	Location	Length (kp)	N° of exons	SNPs	Tag SNPs	SNP ID	Location	Exclusion criteria	Gene Coverage#	Other SNPs within the bin							
SYT1	NM_005639	12q21.2	233.6	8	132	14	rs2177963	Intron 1		0.85	rs2177963, rs10861698, rs1918193, rs2037743, rs1918195, rs7968716, rs1918188, rs1918190, rs7311549, rs8181778, rs7967265, rs1918191, rs4842447, rs10861717, rs1405498, rs1465054, rs1358248, rs6539317, rs1245803, rs1245804, rs1245806, rs1245810, rs1245814, rs1245819, rs1245820, rs1268463, rs1245824, rs1312846, rs1245825, rs1245828, rs1245835, rs1245837, rs1245840, rs1245841, rs1245842, rs10778564, rs10778565, rs10861753, rs10861755, rs10861757, rs2141701, rs1921026, rs10861758, rs10861799, rs6539315, rs1245807, rs1245831, rs1245832, rs10861769, rs2293650, rs11113673, rs1465053, rs1245805, rs12578266, rs7296233, rs10746105, rs11609774, rs10746106, rs10746114, rs7967411							
							rs6539344	Intron 1	No Veracode	rs1245829, rs7963801								
							rs11113425	Intron 1			rs11113410, rs10861762, rs11113435, rs10778573, rs10778575, rs7300645, rs2272500, rs10861795, rs10861796, rs10861797, rs6539373, rs4612885, rs1526952, rs10746103							
							rs2400393	Intron 1										
							rs1732664	Intron 6										
							rs10861941	Intron 6										
							rs1245775	Intron 6										
							rs6539445	Intron 6										
							rs11114027	Intron 6										
							rs7308297	Intron 6										
							rs1465046	Intron 6										
							rs17294719	Intron 6										
							rs2251214	Intron 6										
					</													

SYT2	NM_177402	1q32.1	114.7	9	85	23	rs10800856	5'	Failed	0.77	-
							rs12564274	5'	-		
							rs12409197	Intron 1	Failed		rs3923371, rs4325195
							rs12141884	Intron 1	rs4364933		
							rs4400672	Intron 1	rs4072140, rs10920457, rs11590011,		
									rs11588808, rs4950738, rs4950788, rs4362037,		
									rs11578029, rs12040487, rs12046408		
							rs10920459	Intron 1	rs4418670, rs4572021		
							rs6673562	Intron 1	rs6698441, rs11585345, rs6693751, rs4453099		
							rs10800855	Intron 1	rs4950786, rs4950865, rs4113203, rs6661284,		
									rs6662116, rs10920451, rs10920452, rs4950866,		
									rs4950867, rs2095981, rs12038816, rs6696612,		
									rs4372314, rs16850204		
							rs7550433	Intron 1	rs867316, rs12047572, rs10920440, rs10920445,		
									rs6669326, rs1417160, rs7517181, rs4950785,		
							rs10733069	Intron 1	rs12728991, rs10800847		
									rs867313, rs867314, rs867315, rs946857,		
									rs12404969, rs10920442, rs4950863, rs4537626,		
									rs10737582		
							CPLX1	NM_006651	4p16.3		41.2
rs12121078	Intron 1	-									
rs11585565	Intron 1	-									
rs7534078	Intron 1	-									
rs1934663	Intron 1	-									
rs12739678	Intron 1	rs11585137, rs12739678, rs12354333									
rs10920427	Intron 1	-									
rs7552201	Intron 1	-									
rs578816	Intron 1	-									
rs12566757	Intron 1	-									
rs1968583*	Exon 2	-									
rs907697	Intron 7	rs4520471									
rs9633344	Intron 8	rs6427958, rs504261, rs10494834, rs6666325,									
		rs907698, rs1467120, rs1040010									
rs6427957	3'	-									
rs11248047	5'	rs936551									
rs7375209	Intron 2	rs9328757, rs6842106, rs2276906									
rs6832751	Intron 2	rs7377207									
rs7376690	Intron 2	-									
rs11248043	Intron 2	-									
rs11248042	Intron 2	-									
rs9328758	Intron 2	-									
rs7677766	Intron 2	rs10004482									
rs10004297	Intron 2	-									
rs11722977	Intron 2	-									
rs2306251	Intron 2	rs1052595									

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Table S1. (Continued)

Gene	Contig reference	Location	Length (kp)	N° of exons	SNPs	Tag SNPs	SNP ID	Location	Exclusion criteria	Gene Coverage#	Other SNPs within the bin
CPLX2	NM_006650	5q35.2	87.41	5	62	27	rs3816676	Intron 3			rs3775140, rs6840352
							rs4690313	Intron 3			-
							rs2242237	Exon 4			-
								3'UTR			
							rs3733358	3'			rs17165034
							rs6811804	3'	Failed		rs6816868
							rs2243404	Exon 1		0.85	rs2443541, rs2434237, rs890736, rs2382120, rs7727183
								5'UTR			
							rs10866688	Intron 2	Failed		-
							rs7718856	Intron 2			-
							rs6874025	Intron 2			rs17065511, rs883188
							rs12520557	Intron 2			rs2382123, rs688724, rs10475623
							rs11134932	Intron 2			rs2382121
							rs4242187	Intron 2	Failed		-
							rs10476170	Intron 2			-
							rs17065535	Intron 2			-
							rs6556225	Intron 2			-
							rs1560035	Intron 2			rs6887620
							rs10072860	Intron 2	No Veracode		-
							rs12188152	Intron 2	Failed		-
							rs4867806	Intron 2			rs4868537, rs1560036
							rs11134935	Intron 2			-
CPLX3	NM_001030005	15q24.1	5.19	3	4	2	rs4868538	Intron 2			rs10866690, rs4867807
							rs10866691	Intron 2			rs10076867, rs999065
							rs4868539	Intron 2			-
							rs890737	Intron 2			rs7705543, rs1820646, rs1366116, rs12522368
CPLX4	NM_181654	18q21.32	23.23	3	27	9	rs11134938	Intron 2			rs6860661, rs871853, rs1560033, rs4867808, rs3892909, rs4077871, rs3180249, rs12656972
							rs1006101	Exon 5			rs4867809, rs9313730, rs3822674
							rs10866692	Exon 5			rs1560034
							rs930047	Exon 5			-
CPLX3	NM_001030005	15q24.1	5.19	3	4	2		3'UTR			-
							rs13166213	3'			-
							rs11134942	3'			-
							rs2114968	3'			rs2382114, rs7718100
CPLX4	NM_181654	18q21.32	23.23	3	27	9	rs7162232	5'		1	rs11634474, rs9210
							rs6495122	3'			-
							rs609209\$	Intron 1	No HWE	0.89	-
							rs10503024	Intron 2			-
CPLX4	NM_181654	18q21.32	23.23	3	27	9	rs509886	Intron 2			rs561894, rs668992, rs654802
							rs640401	Intron 2			rs537048, rs536113, rs508858
							rs12232757	Intron 2			rs4940456
							rs12456930	Intron 2			-

NSF	NM_006178	17q21.32	166.6	21	4	rs7228681	Intron 2	rs4940455, rs10871768, rs7243416, rs12232751, rs599535, rs583241, rs11662475, rs1980176, rs4108696 rs606952
						rs499824	Exo 3	rs17696543
						rs1914321	Exo 3	
						rs183211	3'UTR	
NAPA	NM_003827	19q13.32	27.61	11	2	rs17692129	Intron 15	rs199438, rs199536, rs199438, rs142167, rs199455, rs199454, rs199452, rs199449, rs199442, rs199536, rs199530, rs199529, rs199439, rs199456, rs199448, rs199445, rs199535, rs199534, rs199533, rs538628, rs199443
						rs7224296	Intron 15	–
						rs17698176	Intron 17	–
						rs3786521	Intron 1	Failed
STXBPI	NM_003165	9q34.11	80.43	19	8	rs830146	Intron 1	Failed
						rs2039204	5'	–
						rs7852204	5'	rs1573178
						rs2241167	Intron 9	rs4837172, rs10819303, rs3824523, rs4836575
SNPH	NM_014723	20p13	43.01	6	12	rs11905792	Intron 2	–
						rs6109320	Intron 3	No Veracode
						rs2317645	Intron 4	0.64
						rs912105	Intron 4	Failed
RAB34	NM_002866	19p13.2	7.2	5	10	rs7354385	Intron 5	rs3795141, rs3818331
						rs3764715	Exon 6	–
						rs6134520	3'UTR	rs6033370, rs6078505, rs7466
						rs3803947	3'UTR	rs966846, rs912108
SYP	NM_003179	Xp11.23	12.4	7	1	rs4814106	3'	rs11449
						rs1048621 ^{§§}	3'	–
						rs2281711	3'	–
						rs874628	3'UTR	rs2273959, rs2273958, rs3795137
SYP	NM_003179	Xp11.23	12.4	7	1	rs2271881	Monomorphic	rs1044821
						rs17683539		–
						rs2049051		rs17683509, rs2049050
						rs2271882		–
SYP	NM_003179	Xp11.23	12.4	7	1	rs5906754	5'	rs1667476, rs16982263
						rs2293945*	Intron 6	–

HWE Hardy-Weinberg equilibrium, MAF minimum allele frequency (in the control sample).

[§]The SNP rs609209 of the *CPLX4* gene was not included in the assay because was not in HWE as described by Corominas et al. (in preparation).

^{§§}The SNP rs1048621 of the *SNPH* gene was not included in the assay because was monomorphic as described by Corominas et al. (in preparation).

*SNPs included in the assay not according to genetic coverage parameters.

**MAF: Minor allele frequency in the control sample.

Table SII. Nominal P-values observed when genotype frequencies of 121 SNPs within 15 candidate genes were considered in 360 cocaine dependent patients and 360 controls.

GENE	SNP	P-value
SYT2	rs6427957	0.15212
	rs9633344	0.46772
	rs907697	0.90325
	rs7552201	0.86890
	rs10920427	0.75248
	rs12739678	0.06504
	rs1934663	0.57648
	rs7534078	0.96311
	rs11585565	0.75220
	rs12121078	0.08003
	rs10733069	0.16372
	rs7550433	0.34683
	rs10800855	0.01254
	rs6673562	0.15972
	rs4400672	0.04832
	rs12141884	0.32292
	rs12564274	0.20735
VAMP1	rs12964	0.15651
	rs2534717	0.34739
	rs2240867	0.22587
	rs2072376	0.75251
	rs10492096	0.39987
SYT1	rs2177963	0.62265
	rs11113425	0.64354
	rs2400393	0.39748
	rs1732664	0.35062
	rs10861941	0.02279
	rs6539445	0.83461
	rs11114027	0.37482
	rs7308297	0.18092
	rs1465046	0.57448
	rs17294719	0.36636
CPLX3	rs2251214	0.32359
	rs7162232	0.67135
	rs6495122	0.60608
VAMP2	rs8067606	0.80588
NSF	rs183211	0.00238
	rs17692129	0.83791
	rs7224296	0.05305
	rs17698176	0.38155
CPLX4	rs1914321	0.02163
	rs499824	0.81498
	rs7228681	0.13420
	rs12456930	0.08485
	rs12232757	0.42805
	rs640401	0.04187
	rs509886	0.20299
	rs10503024	0.13737
	rs874628	0.73628
	rs2271881	0.77492
RAB3A	rs2271882	0.25798
	rs17683539	0.70461
	rs2049051	0.05203
	rs6109320	0.98512
	rs7354385	0.58227
SNPH	rs3764715	0.23104

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Table SII. (Continued)

GENE	SNP	P-value
SNAP25	rs6134520	0.32681
	rs4814106	0.25008
	rs2281711	0.97015
	rs1889189	0.15589
	rs6039769	0.15654
	rs363039	0.38271
	rs363043	0.87723
	rs12626080	0.54758
	rs6074113	0.32190
	rs362547	0.16478
	rs362570	0.28418
	rs6039806	0.05962
	rs3025873	0.75712
	rs362988	0.78774
	rs6108464	0.35760
	rs3787283	0.33002
	rs4813925	0.57665
	rs6074121	0.45345
	rs6032845	0.67322
	rs3025879	0.24403
CPLX1	rs6032846	0.14444
	rs3733358	0.30114
	rs2242237	0.46714
	rs4690313	0.11870
	rs3816676	0.50524
	rs2306251	0.69868
	rs11722977	0.00644
	rs7677766	0.75547
	rs9328758	0.97542
	rs11248042	0.17946
CPLX2	rs11248043	0.16668
	rs6832751	0.65893
	rs7375209	0.33853
	rs11248047	0.93505
	rs2243404	0.76688
	rs7718856	0.07444
	rs6874025	0.72218
	rs12520557	0.76957
	rs11134932	0.92888
	rs10476170	0.53281
	rs17065535	0.11211
	rs6556225	0.36353
	rs1560035	0.47697
	rs4867806	0.65625
	rs11134935	0.49431
	rs4868538	0.16514
	rs10866691	0.94357
	rs4868539	0.02956
	rs890737	0.90204
	rs11134938	0.57680
STX1A	rs1006101	0.88312
	rs10866692	0.99481
	rs930047	0.51534
	rs13166213	0.58418
	rs11134942	0.27905
	rs2114968	0.45165
	rs4363087	0.90163
	rs3793243	0.86838

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Table SII. (Continued)

GENE	SNP	P-value
<i>STXBP1</i>	rs2293485	0.66049
	rs941298	0.76395
	rs2039204	0.71640
	rs7852204	0.84553
	rs2241167	0.62985
<i>SYP</i>	rs2293945	0.67915
	rs5906754	0.94017

In bold, nominally significant p-values.