

Supplementary material - tables

Freitag et al.: The role of ASTN2 variants in childhood and adult ADHD, comorbid disorders and associated personality traits

Table 1: Minor allele frequencies (%) of 63 ASTN2 SNPs in the studied samples

BLOCK	SNP	RS	POS#	MajorA	MinorA	cADHD family sample MAF (%)		aADHD case-control sample MAF (%)	
						offspring	parents	cases	controls
I	1	rs4836749	118354710	C	T	13.4	14.4	15.4	14.5
	2	rs10983238	118373504	C	G	27.6*	28.5*	29.5*	28.6*
	3	rs7856625	118384904	T	C	39.5	38	37.3	39.2
	4	rs10983260	118405081	G	T	25.9	26.5	24.7	25.1
	5	rs1885242	118421106	G	A	46.3*	46.5*	46.5	45.5
	6	rs4837682	118422751	T	C	15	13.4	14.1	15.9
	7	rs12376789	118422955	C	G	9.9	11.4	10.9	12.4
	8	rs12340737	118423141	C	A	35.3	33.2	35	33.1
	9	rs10491578	118423709	T	C	25.6	25.8	24.5	24.3
	10	rs1885243	118424413	C	T	6.7	5.3	7.2	6.9
	11	rs803893	118447329	C	T	6.4	5.2	6.6	6.8
II	12	rs803890	118449153	G	A	45.3	45.7	47.1	45.9
	13	rs7863462	118449357	G	A	3.7	4.6	4.5	4
	14	rs2900132	118449459	A	G	35.6	33.5	34.4	33.2
	15	rs811689	118450577	C	T	45.4	46	45.5	45.4
	16	rs13302089	118452936	C	T	25	25.2	24.4	24.3
III	17	rs12236506	118454963	C	G	8.3	8.2	6.9	8.5
	18	rs803914	118456525	C	T	33.1	31	30.8*	31.1*
	19	rs10983304	118488800	C	T	2	3	3.2	3.3
	20	rs12237968	118491701	T	G	7.7	7.9	7	8.8
	21	rs17220476	118491941	A	G	25.3	25.5	24.9	24.4
	22	rs803940	118492960	G	A	10.8	12	10.8	11.9
IV	23	rs803939	118493276	A	G	46.6*	47.2*	47.7	46.5
	24	rs894206	118527394	T	A	27.5	26.5	25.4	26.8
	25	rs9657642	118530054	G	A	34.2	33.1	33.9	32.6
	26	rs10491577	118530295	A	G	9.4	10.2	12	10.8
	27	rs7028544	118530393	A	G	42.6	42.1	40.2	39.2
V	28	rs1441744	118533015	G	T	32.3	33.1	34	33.9
	29	rs1441743	118533047	T	A	38.2	38.4	42.4	41.6
	30	rs10983337	118557325	A	T	44.8	45.7	48.9	49.3
	31	rs10983339	118562077	G	A	46.1	47.1	49.3	49.3
VI	32	rs10983357	118612039	A	G	22.6	25.7	25.7	26.4
	33	rs1155556	118612155	A	G	46.2	48.9	47.2	46.5
	34	rs13285982	118619065	G	A	45.9*	45.4*	43.4*	41.1*
	35	rs1326805	118620012	A	T	11	9.3	9	11.1
	36	rs7041957	118621333	C	A	0*	0*	0.1*	0*
VII	37	rs1547663	118622236	T	C	26.8	25.8	26.3	25.1
	38	rs3818501	118622469	T	G	17.6	19.2	18.9	17.2
	39	rs10759862	118623551	T	C	19.2	20.5	20.3	18.5
	40	rs13284460	118623792	G	C	29.2	26.6	27.9	29.1
	41	rs943303	118627637	A	G	16.4*	17.9*	20.2*	17.4*

BLOCK	SNP	RS	POS#	MajorA	MinorA	cADHD family sample MAF (%)		aADHD case-control sample MAF (%)	
						offspring	parents	cases	controls
VIII	42	rs2148544	118660534	G	A	31	31.3	29.1	27.5
	43	rs11793991	118661115	G	A	0.6*	0.7*	1.9	1.3
	44	rs10491574	118662259	G	A	10.4	10.3	12.3	10.9
	45	rs2026586	118662583	C	T	10.7	11.6	10.2	11.7
	46	rs7036590	118662931	A	T	45.9	45.5	45.2	47.3
	47	rs943306	118664496	G	A	41.8	41.7	41.5	39.2
	48	rs3747837	118666086	T	C	20.7*	24.3*	40*	14.3*
	IX	49	rs997348	118929510	G	C	21.7	22.1	17.9
50		rs4090221	118941199	A	G	27	26.3	27.1	26.5
51		rs4614069	118941462	G	A	3.9	3.9	2.3	2.4
52		rs10817999	118943327	T	C	48.5	47.7	45.6	44.6
53		rs13283855	118945404	T	C	6.2	5.6	5.2	6.2
54		rs10818002	118947647	C	T	17.8	19	16.1	15.5
X		55	rs7847062	119017281	C	T	29.3	30.4	34.3
	56	rs9299249	119021354	A	G	44.2	46.7	49.1	46.5
	57	rs1029184	119025025	T	n.a.	0*	0*	0*	0*
	58	rs1160245	119032741	A	T	47.5	47.6	49.8	47.9
	XI	59	rs4837099	119090829	A	G	13.4	14.2	14.5
60		rs7026867	119092180	A	C	0.8	1.1	0.7*	0.5*
61		rs10759913	119092350	T	C	44.5	44.4	43.3	43.8
62		rs7862566	119093842	C	T	14.7	14.5	14.4	14.3
63		rs10983609	119093998	A	T	8.8	9.4	9.1	9.1

Legend supplementary table 1:

SNPs were mapped to NCBI36

* SNP did not pass quality control, not included in association analysis

MAF: minor allele frequency

MajorA: major allele

MinorA: minor allele

n.a. not applicable, i.e. not genotyped

Supplementary table 2: Single SNP association results in cADHD sample (N=54 included SNPs)

No	SNP	position	overtransmitted allele	transmission frequency	p-value
1	rs4836749	118354710	C	0.5	1
3	rs7856625	118384904	C	0.5116	0.62507
4	rs10983260	118405081	G	0.5	1
6	rs4837682	118422751	C	0.5238	0.643429
7	rs12376789	118422955	C	0.514	0.024745*
8	rs12340737	118423141	A	0.5174	0.505859
9	rs10491578	118423709	T	0.5031	0.773972
10	rs1885243	118424413	T	0.5818	0.23323
11	rs803893	118447329	T	0.5745	0.285751
12	rs803890	118449153	A	0.5048	0.782528
13	rs7863462	118449357	G	0.5039	0.262332
14	rs2900132	118449459	G	0.5272	0.193593
15	rs811689	118450577	C	0.5051	0.7484
16	rs13302089	118452936	C	0.5	1
17	rs12236506	118454963	C	0.5006	0.92634
18	rs803914	118456525	T	0.5139	0.612504
19	rs10983304	118488800	C	0.5042	0.10247
20	rs12237968	118491701	T	0.5054	0.409355
21	rs17220476	118491941	A	0.503	0.770493
22	rs803940	118492960	G	0.5097	0.131668
24	rs894206	118527394	T	0.5023	0.823545
25	rs9657642	118530054	A	0.5158	0.460995
26	rs10491577	118530295	A	0.5066	0.256839
27	rs7028544	118530393	G	0.5169	0.407626
28	rs1441744	118533015	G	0.5165	0.257518
29	rs1441743	118533047	T	0.507	0.637352
30	rs10983337	118557325	A	0.5192	0.287421
31	rs10983339	118562077	G	0.5216	0.240219
32	rs10983357	118612039	A	0.5164	0.127263
33	rs1155556	118612155	A	0.5262	0.096092
35	rs1326805	118620012	T	0.5745	0.12663
37	rs1547663	118622236	C	0.5232	0.385985
38	rs3818501	118622469	T	0.5119	0.146388
39	rs10759862	118623551	T	0.5026	0.738883
40	rs13284460	118623792	C	0.5124	0.65998
42	rs2148544	118660534	A	0.5142	0.548756
44	rs10491574	118662259	A	0.5053	0.912596
45	rs2026586	118662583	C	0.5097	0.075048
46	rs7036590	118662931	T	0.5066	0.733106
47	rs943306	118664496	A	0.5168	0.384003
49	rs997348	118929510	C	0.5204	0.537094
50	rs4090221	118941199	A	0.5051	0.647937
51	rs4614069	118941462	G	0.5011	0.785495
52	rs10817999	118943327	C	0.5129	0.474902
53	rs13283855	118945404	C	0.566	0.317311
54	rs10818002	118947647	T	0.5302	0.370502
55	rs7847062	119017281	C	0.507	0.527599
56	rs9299249	119021354	A	0.5147	0.287636
58	rs1160245	119032741	T	0.5012	0.948425
59	rs4837099	119090829	A	0.5079	0.168204

60	rs7026867	119092180	A	0.5018	0.179712
61	rs10759913	119092350	C	0.509	0.64511
62	rs7862566	119093842	C	0.5	1
63	rs10983609	119093998	A	0.5024	0.632585

Legend supplementary table 2:* $p < 0.05$

Supplementary table 3: Single SNP association results in aADHD sample (N=55 included SNPs)

No	SNP	position	Major Allele	Minor Allele	p-value
1	rs4836749	118354710	C	T	0.48801
3	rs7856625	118384904	T	C	0.27555
4	rs10983260	118405081	G	T	0.81993
5	rs1885242	118421106	G	A	0.60947
6	rs4837682	118422751	T	C	0.19806
7	rs12376789	118422955	C	G	0.19128
8	rs12340737	118423141	C	A	0.30798
9	rs10491578	118423709	T	C	0.89200
10	rs1885243	118424413	C	T	0.75919
11	rs803893	118447329	C	T	0.84304
12	rs803890	118449153	G	A	0.51604
13	rs7863462	118449357	G	A	0.52248
14	rs2900132	118449459	A	G	0.50551
15	rs811689	118450577	C	T	0.96963
16	rs13302089	118452936	C	T	0.96478
17	rs12236506	118454963	C	G	0.10957
19	rs10983304	118488800	C	T	0.94395
20	rs12237968	118491701	T	G	0.08329
21	rs17220476	118491941	A	G	0.76811
22	rs803940	118492960	G	A	0.37295
23	rs803939	118493276	A	G	0.51793
24	rs894206	118527394	T	A	0.37610
25	rs9657642	118530054	G	A	0.45456
26	rs10491577	118530295	A	G	0.32649
27	rs7028544	118530393	A	G	0.56769
28	rs1441744	118533015	G	T	0.98241
29	rs1441743	118533047	T	A	0.66535
30	rs10983337	118557325	A	T	0.83113
31	rs10983339	118562077	G	A	0.96748
32	rs10983357	118612039	A	G	0.67615
33	rs1155556	118612155	A	G	0.72979
35	rs1326805	118620012	A	T	0.06511
37	rs1547663	118622236	T	C	0.44600
38	rs3818501	118622469	T	G	0.24441
39	rs10759862	118623551	T	C	0.21505
40	rs13284460	118623792	G	C	0.50828
42	rs2148544	118660534	G	A	0.34386
43	rs11793991	118661115	G	A	0.19624
44	rs10491574	118662259	G	A	0.24508
45	rs2026586	118662583	C	T	0.23024
46	rs7036590	118662931	A	T	0.27348
47	rs943306	118664496	G	A	0.20888
49	rs997348	118929510	G	C	0.98663
50	rs4090221	118941199	A	G	0.73757
51	rs4614069	118941462	G	A	0.95918
52	rs10817999	118943327	T	C	0.60844
53	rs13283855	118945404	T	C	0.27182
54	rs10818002	118947647	C	T	0.64994
55	rs7847062	119017281	C	T	0.16775
56	rs9299249	119021354	A	G	0.17417

58	rs1160245	119032741	A	T	0.30342
59	rs4837099	119090829	A	G	0.83865
61	rs10759913	119092350	T	C	0.76523
62	rs7862566	119093842	C	T	0.92823
63	rs10983609	119093998	A	T	1.00000