

Supplementary Table 5. Prioritised genes within genomic loci that associate with both ADHD and dyslexia. Previous gene associations with dyslexia are shown in bold and in red for ADHD.

ensg	symbol	chr	start	end	strand	type	entrezID	HUGO	pLI	ncRVRs	postMapSNPs	postMapMaxCADD	minGwasP	IndSigSNPs	GenomicLocus
ENSG00000253313	Clorf120	1	43747554	43751288	-	protein coding	149466	Clorf120	0.001219636	0.676593983	3	16.67	NA	rs3120276;rs2991990;rs1198982;rs1199039;rs7527092;rs2282225;rs6694318	1
ENSG00000066056	TIE1	1	43766664	43788779	-	protein coding	7075	TIE1	0.019633805	0.019633805	37	16.67	3.66768E-07	rs3120276;rs2991990;rs1198982;rs1199039;rs7527092;rs2282225;rs6694318	1
ENSG00000117400	MPL	1	43803478	43818443	-	protein coding	4352	MPL	1.43928606	0.172843809	19	22.4	4.58724E-06	rs7527092;rs2282225;rs6694318;rs3120276;rs2991990;rs1198982;rs1199039	1
ENSG00000117399	CDC20	1	43824626	43828874	-	protein coding	891	CDC20	0.000181854	0.322700115	13	22.4	4.27147E-06	rs7527092;rs2282225;rs6694318;rs3120276;rs2991990;rs1198982;rs1199039	1
ENSG00000066322	ELOVL1	-	43829068	43833696	-	protein coding	64850	ELOVL1	0.22341453	NA	17	22.4	3.97068E-06	rs7527092;rs2282225;rs6694318;rs3120276;rs2991990;rs1198982;rs1199039	1
ENSG00000159479	MED8	1	43849588	43855479	-	protein coding	112950	MED8	8.15826E-06	0.403723391	18	18.26	3.7126E-06	rs7527092;rs2282225;rs6694318;rs3120276;rs2991990;rs1198982;rs1199039	1
ENSG00000198198	SZT2	1	43855553	43918321	-	protein coding	23334	SZT2	1.51747E-07	0.623916217	58	18.87	4.18072E-06	rs7527092;rs2282225;rs6694318;rs3120276;rs2991990;rs1198982;rs1199039	1
ENSG00000178922	HVI	1	43916824	43919660	-	protein coding	61888	HVI	0.187049626	NA	16	18.87	2.3296E-05	rs3120276;rs2991990;rs1198982;rs1199039	1
ENSG00000196872	KIAA1211L	2	99410309	99552722	-	protein coding	343990	KIAA1211L	NA	NA	18	14.04	2.06415E-05	rs10178956	3
ENSG00000135951	TSGA10	2	99413724	99711427	-	protein coding	80705	TSGA10	0.894352624	0.321841592	8	2.969	NA	rs12475639;rs12464785;rs17022564;rs57242893;rs55815229;rs62153855;rs58086269;rs6713608;rs2	3
ENSG00000241962	C2orf15	2	99787948	99939204	-	protein coding	150590	C2orf15	0.543252453	0.867773362	83	13.29	4.78241E-05	rs12475639;rs12464785;rs17022564;rs57242893;rs55815229;rs62153855;rs58086269;rs6713608;rs2	3
ENSG00000185674	LVG2	2	99807001	99871745	-	protein coding	25573	LVG2	5.77012E-06	0.086292636	5	5.684	0.000357423	rs12475639;rs12464785;rs17022564;rs57242893;rs55815229;rs62153855;rs58086269;rs6713608;rs2	3
ENSG00000144124	LVG1	2	99807001	99921205	-	protein coding	129940	LVG1	0.000100428	0.013563013	43	22.4	4.78241E-05	rs12475639;rs12464785;rs17022564;rs57242893;rs55815229;rs62153855;rs58086269;rs6713608;rs2	3
ENSG00000151114	TNXCDC9	-	99835416	99934114	-	protein coding	0.213930551	TNXCDC9	0.213930551	0.542788538	17	13.29	4.78241E-05	rs12475639;rs12464785;rs17022564;rs57242893;rs55815229;rs62153855;rs58086269;rs6713608;rs2	3
ENSG00000158417	EIF5B	2	99953816	100017789	-	protein coding	9669	EIF5B	0.095387511	0.523223638	46	18.6	4.71513E-05	rs12475639;rs12464785;rs17022564;rs57242893;rs55815229;rs62153855;rs58086269;rs6713608;rs2	3
ENSG00000135945	REV1	2	100016930	100106497	-	protein coding	51455	REV1	0.097037541	NA	140	17.02	4.88481E-05	rs12475639;rs12464785;rs17022564;rs57242893;rs55815229;rs62153855;rs58086269;rs6713608;rs2	3
ENSG00000128655	POE11A	2	100487808	100973066	-	protein coding	50940	POE11A	4.16725E-31	1.159768379	1	1.42	0.001110178	rs1900251;rs1	

ENSG00000179564	LSMEM2	3	50316458	50325545	1	protein coding	132228	LSMEM2		2.89144E-05	-0.54802292	1	1.468	NA	rs35137368		10
ENSG00000214706	IFRD2	3	50325163	50330349	-1	protein coding	7866	IFRD2		5.52616E-06	0.61673773	1	5.353	NA	rs2624838;rs2624835;rs2624833;rs13059311;rs9858297;rs13067082;rs1046956;rs12632110;rs126376		10
ENSG00000186792	HYAL3	3	50330262	50333699	-1	protein coding	8372	HYAL3		1.52466E-05	-0.353149953	1	5.353	NA	rs2624838;rs2624835;rs2624833;rs13059311;rs9858297;rs13067082;rs1046956;rs12632110;rs126376		10
ENSG00000243477	NAT6	3	50333833	50336852	-1	protein coding	24142	NAT6		0.402945153	-0.113189262	1	5.353	NA	rs2624838;rs2624835;rs2624833;rs13059311;rs9858297;rs13067082;rs1046956;rs12632110;rs126376		10
ENSG00000114378	HYAL1	3	50337320	50349812	-1	protein coding	3373	HYAL1		0.005536706	0.476164437	1	5.353	NA	rs2624838;rs2624835;rs2624833;rs13059311;rs9858297;rs13067082;rs1046956;rs12632110;rs126376		10
ENSG00000114395	CYB5G1D2	3	50388126	50395891	1	protein coding	11068	CYB5G1D2		0.014710475	-0.298456388	1	1.163	NA	rs2624838;rs2624835;rs2624833;rs13059311;rs9858297;rs13067082;rs1046956;rs12632110;rs126376		10
ENSG00000272104	KCXC8-LUCA11.5	3	50388323	50405354	1	protein coding	NA	NA	NA	NA	NA	1	1.163	NA	rs2624838;rs2624835;rs2624833;rs13059311;rs9858297;rs13067082;rs1046956;rs12632110;rs126376		10
ENSG00000126062	TMEM115	3	50391280	50397041	-1	protein coding	11070	TMEM115		0.876895269	-0.780371829	1	1.163	NA	rs2624838;rs2624835;rs2624833;rs13059311;rs9858297;rs13067082;rs1046956;rs12632110;rs126376		10
ENSG00000007402	CACNA2D2	3	50400233	50541675	-1	protein coding	9254	CACNA2D2		0.999693297	NA	1	1.163	NA	rs2624838;rs2624835;rs2624833;rs13059311;rs9858297;rs13067082;rs1046956;rs12632110;rs126376		10
ENSG00000175161	CADM2	3	85008132	86123579	1	protein coding	235559	CADM2		0.98466891	-0.117806454	890	20.6	6.638276E-08	rs1263971;rs1921010;rs10511087;rs1368742;rs12637798;rs12638482;rs62250685;rs1918899;rs154		12
ENSG00000185565	LSAMP	3	115521235	117716095	-1	protein coding	4045	LSAMP		0.946283747	NA	18	16.8	6.859627E-06	r6488050		13
ENSG00000065534	MYLK	3	123328896	123603178	-1	protein coding	4638	MYLK		9.3792E-06	0.303166207	25	14.66	6.3831E-05	rs34067381		14
ENSG00000175455	CCDC14	3	12361552	123680564	-1	protein coding	64770	CCDC14		3.40559E-07	0.11388799	52	14.66	6.3831E-05	rs34067381		14
ENSG00000066371	ROPN1	3	123687368	123711025	-1	protein coding	5473	ROPN1		0.008185352	-0.715620474	9	9.294	0.000317035	rs34067381		14
ENSG00000073711	PPP2R3A	3	135684515	135866733	1	protein coding	5523	PPP2R3A		9.20487875	-0.863679102	144	19.34	2.5098E-11	rs9852406;rs56308637;rs28875187;rs1403767;rs73230099;rs1052620;rs9867325;rs9840500;rs61791		15
ENSG0001745759	MSL2	3	1358677164	135916803	-1	protein coding	55167	MSL2		0.289663742	-1.742045808	54	22.4	4.1708E-10	rs9852406;rs56308637;rs28875187;rs1403767;rs73230099;rs1052620;rs9867325;rs9840500;rs61791		15
ENSG00000144134	PCBC	3	135969148	136056738	-1	protein coding	5096	PCBC		0.000735838	0.184775604	39	16.64	8.5097E-10	rs6179175;rs73677916;rs145488;rs64504;rs687339;rs11154;rs1153871;rs61789601;rs1154		15
ENSG00000118007	STAG1	3	1360550774	136471220	-1	protein coding	10274	STAG1		0.99999991	0.865376054	32	16.64	4.7085E-12	rs6179175;rs73677916;rs145		

ENSG00000132874	<i>SLC14A2</i>	18	42792960	43263072	1	protein_coding	8170	<i>SLC14A2</i>	8.42741E-14	0.719949743	4	1.751	0.000509007	rs11877152	45
ENSG000000088930	<i>XRN2</i>	20	21283942	21370463	1	protein_coding	22803	<i>XRN2</i>	0.813170186	-0.511318347	63	13.49	1.47451E-07	rs11697152;rs6132437;rs1885284;rs4426587;rs6137363;rs6132438;rs2180965	46
ENSG00000125816	<i>NKX2-4</i>	20	21376005	21378666	-1	protein_coding	644524	<i>NKX2-4</i>	0.278447692	-0.618232094	7	11.39	1.88082E-07	rs11697152;rs6132437;rs1885284;rs4426587;rs6137363;rs6132438;rs2180965	46
ENSG00000125820	<i>NKX2-2</i>	20	21491648	21494664	-1	protein_coding	4821	<i>NKX2-2</i>	0.337334272	0.403260334	5	15.42	0.000135399	rs11697152;rs1885284;rs4426587;rs6137363;rs6132437;rs6132438;rs2180965	46
ENSG00000101336	<i>HCK</i>	20	30639991	30689659	1	protein_coding	3055	<i>HCK</i>	NA	-0.488054047	18	8.449	2.01611E-06	rs6061182;rs6061195;rs2424874;rs2424877;rs2424878	47
ENSG00000101337	<i>TM9SF4</i>	20	30697309	30755061	1	protein_coding	9777	<i>TM9SF4</i>	0.999970772	-0.454321947	101	14.53	9.52979E-07	rs6061182;rs6061195;rs2424874;rs2424877;rs2424878	47
ENSG00000126003	<i>PLAGL2</i>	20	30780306	30795594	-1	protein_coding	5326	<i>PLAGL2</i>	0.869795638	-1.454407449	14	10.18	2.21643E-06	rs6061182;rs6061195;rs2424874;rs2424877;rs2424878	47
ENSG00000101346	<i>POFUT1</i>	20	30795683	30826470	1	protein_coding	23509	<i>POFUT1</i>	0.987586067	-0.933580252	18	10.18	2.21643E-06	rs6061182;rs6061195;rs2424874;rs2424877;rs2424878	47
ENSG00000101350	<i>KIF3B</i>	20	30865467	30922814	1	protein_coding	9371	<i>KIF3B</i>	0.299149041	1.216030949	79	12.8	1.25826E-06	rs6061182;rs6061195;rs2424874;rs2424877;rs2424878	47
ENSG00000171456	<i>ASXL1</i>	20	30946155	31027122	1	protein_coding	171023	<i>ASXL1</i>	1.3737E-18	-0.102032696	104	14.34	2.18884E-06	rs6061182;rs6061195;rs2424874;rs2424877;rs2424878	47
ENSG00000197183	<i>C20orf112</i>	20	31030862	31172876	-1	protein_coding	140688	<i>C20orf112</i>	0.973021414	-1.221048481	35	14.34	NA	rs6061182;rs6061195;rs2424874;rs2424877;rs2424878	47
ENSG00000020256	<i>ZFP64</i>	20	50668202	50820847	-1	protein_coding	55734	<i>ZFP64</i>	0.005189853	0.080832412	19	11.47	0.006898793	rs17794954	48
ENSG00000268856	<i>AP001579.1</i>	21	46492796	46492927	-1	protein_coding	NA	NA	NA	NA	6	11.98	0.001747425	rs400997;rs403694;rs427943;rs407133;rs372519;rs394872;rs395761;rs397092	49
ENSG00000197381	<i>ADARB1</i>	21	46493768	46646478	1	protein_coding	104	<i>ADARB1</i>	0.843939347	0.94107657	112	13.31	5.0836E-05	rs400997;rs403694;rs427943;rs407133;rs372519;rs394872;rs395761;rs397092	49
ENSG00000268805	<i>PRED57</i>	21	46511596	46515493	-1	protein_coding	728039	<i>SSRP1</i>	NA	NA	3	11.44	0.002077283	rs400997;rs403694;rs427943;rs407133;rs372519;rs394872;rs395761;rs397092	49
ENSG00000267857	<i>PRED58</i>	21	46520728	46534873	-1	protein_coding	NA	NA	NA	NA	5	2.813	0.00184114	rs400997;rs403694;rs427943;rs407133;rs372519;rs394872;rs395761;rs397092	49
ENSG00000186866	<i>POFUT2</i>	21	46683843	46707813	-1	protein_coding	23275	<i>POFUT2</i>	0.010840872	-0.159699322	1	3.07	NA	rs427943;rs407133	49