

Regulatory variant prioritization and colocalization with eQTL for PCL-total

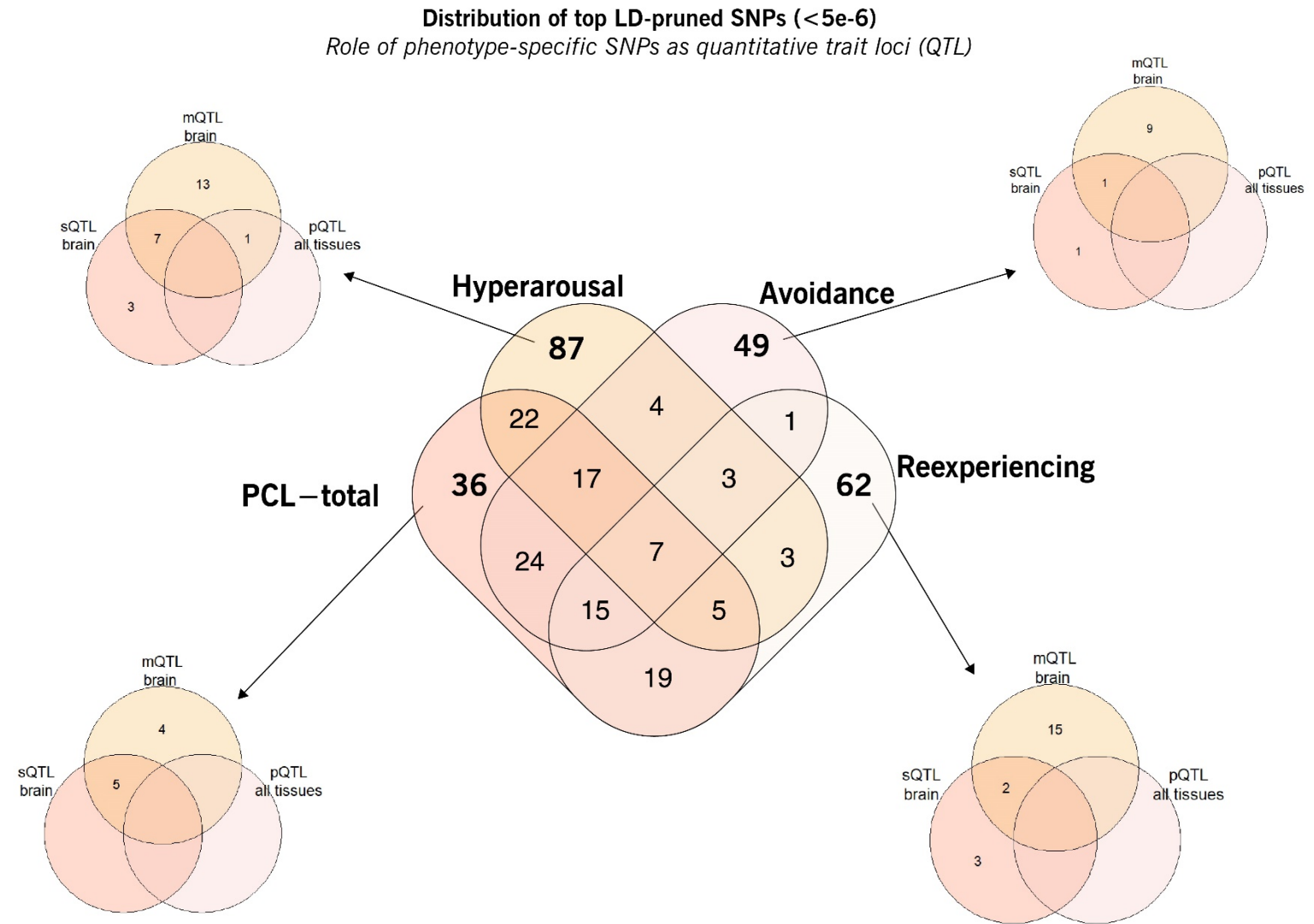
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Figure 1: Top associated SNPs and their overlap across phenotypes and their role as quantitative trait loci

To understand the biological effect of SNPs associated with PTSD phenotypes, we analyzed top SNPs (at suggestive threshold $5e-6$) for their unique and overlapping distribution across the four phenotypes. The top SNPs for each phenotype were LD pruned ($r^2=0.2$, $kb=250$) to obtain independent signals. The Venn figure shows the distribution of independent SNPs and non-overlapping SNPs across phenotypes are 87 (Hyperarousal), 49 (Avoidance), 62 (Reexperiencing), and 36 (PCL-total).

These non-overlapping or phenotype-specific SNPs were tested for their QTL associations for protein (all tissues), DNA methylation (brain tissues), and splicing (brain tissues) from the QTLbase. These QTL associations are shown as Venn figures for each phenotype. Detailed tabular results are shown in Table 1.



sQTL: splicing quantitative trait loci
 mQTL: DNA methylation quantitative trait loci
 pQTL: protein quantitative trait loci

Table 1: QTL associations for independent phenotype-specific SNPs

The table presents details of the SNPs and associated genes extracted from the data available from QTLbase (<http://mulinlab.org/qtlbase>). The p-values are two-sided from regression analysis for the gene-tissue expression tested in the respective studies [PMID: Journal: Year is presented in the table] and p-values lower than 1e-6 (0.05/20000 genes) are reported; correcting for number of genome-wide genes.

Avoidance_S NPS			SNP		Mappe d_gene	Trait_c hr	Trait_s tart	Trait_e nd	Pvalue	Source id	PMID	xQTL	Tissue	Popula tion	Sampl e_size	Journa l	Year	Genom e	Descri be
			rs2532423		NULL	17	43662625	43662625	1.79E-47	103	26619357	mQTL	Brain	EUR	166	Nature neuroscience	2015	hg19	NA
			rs2532423		NULL	17	43663208	43663208	1.19E-85	103	26619357	mQTL	Brain	EUR	166	Nature neuroscience	2015	hg19	NA
			rs2532423		NULL	17	43662623	43662623	1.87E-37	103	26619357	mQTL	Brain	EUR	166	Nature neuroscience	2015	hg19	NA
			rs2532423		NULL	17	43663579	43663579	1.08E-66	103	26619357	mQTL	Brain	EUR	166	Nature neuroscience	2015	hg19	NA
			rs2532423		NULL	17	46940121	46940121	2.06E-11	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA
			rs2532423		NULL	17	46911531	46911531	3.22E-38	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA
			rs2532423		NULL	17	46946887	46946887	4.67E-38	104	26619358	mQTL	Brain-Prefro	MIX	258	Nature neuroscience	2015	hg19	NA

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			rs2532 423		NULL	17	46914 259	46914 259	1.00E- 08	104	26619 358	mQTL	Brain- Prefro ntal_C ortex	MIX	258	Nature neuros cience	2015	hg19	NA
			rs4513 468		EDNRB	13	78550 373	78550 373	9.61E- 09	103	26619 357	mQTL	Brain	EUR	166	Nature neuros cience	2015	hg19	NA
			rs4513 468		NULL	3	18760 629	18760 629	6.86E- 10	104	26619 358	mQTL	Brain- Prefro ntal_C ortex	MIX	258	Nature neuros cience	2015	hg19	NA
			rs9973 16		LRGUK	7	13417 5563	13417 5563	2.19E- 14	104	26619 358	mQTL	Brain- Prefro ntal_C ortex	MIX	258	Nature neuros cience	2015	hg19	NA
			rs6581 131		R3HD M2	12	55931 375	55931 375	1.40E- 14	74	20485 568	mQTL	Brain- Frontal _Corte x	EUR	150	PLoS geneti cs	2010	hg19	NA
			rs6581 131		R3HD M2	12	55921 029	55921 029	4.42E- 20	74	20485 568	mQTL	Brain- Frontal _Corte x	EUR	150	PLoS geneti cs	2010	hg19	NA
			rs6581 131		R3HD M2	12	55931 375	55931 375	6.55E- 11	75	20485 568	mQTL	Brain- Tempo ral_Cor tex	EUR	150	PLoS geneti cs	2010	hg19	NA
			rs6581 131		R3HD M2	12	55921 029	55921 029	2.50E- 18	75	20485 568	mQTL	Brain- Tempo ral_Cor tex	EUR	150	PLoS geneti cs	2010	hg19	NA

			rs6581131		R3HDM2	12	55931375	55931375	7.43E-09	76	20485568	mQTL	Brain-Pons	EUR	150	PLoS genetics	2010	hg19	NA
			rs6581131		R3HDM2	12	55921029	55921029	3.60E-13	76	20485568	mQTL	Brain-Pons	EUR	150	PLoS genetics	2010	hg19	NA
			rs6581131		NULL	12	57780204	57780204	6.76E-36	103	26619357	mQTL	Brain	EUR	166	Nature neuroscience	2015	hg19	NA
			rs6581131		STAC3	12	59358841	59358841	1.91E-27	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA
			rs6581131		STAC3	12	59358391	59358391	4.03E-13	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA
			rs6581131		NDUFA4L2	12	59348282	59348282	3.66E-11	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA
			rs6581131		NDUFA4L2	12	59349212	59349212	4.38E-67	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA
			rs6581131		NDUFA4L2	12	59348588	59348588	9.85E-61	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA
			rs6581131		NDUFA4L2	12	59349072	59349072	3.71E-50	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA

			rs6581131		NDUFA4L2	12	59348495	59348495	1.15E-63	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA
			rs6581131		NDUFA4L2	12	57634677	57634677	1.44E-16	152	30203047	mQTL	Brain	MIX	487	Nucleic acids research	2019	hg19	original reported cis
			rs6581131		NDUFA4L2	12	57634549	57634549	3.46E-17	152	30203047	mQTL	Brain	MIX	487	Nucleic acids research	2019	hg19	original reported cis
			rs6581131		NDUFA4L2	12	57635479	57635479	9.69E-13	152	30203047	mQTL	Brain	MIX	487	Nucleic acids research	2019	hg19	original reported cis
			rs6581131		NDUFA4L2	12	57634555	57634555	6.20E-16	152	30203047	mQTL	Brain	MIX	487	Nucleic acids research	2019	hg19	original reported cis
			rs6581131		NDUFA4L2	12	57634762	57634762	7.69E-17	152	30203047	mQTL	Brain	MIX	487	Nucleic acids research	2019	hg19	original reported cis
			rs6581131		NDUFA4L2	12	57634665	57634665	1.50E-17	152	30203047	mQTL	Brain	MIX	487	Nucleic acids research	2019	hg19	original reported cis
			rs9468976		HLA-B	6	31217838	31217838	4.54E-07	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA

			rs9468976		NULL	6	31213454	31213454	9.70E-16	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA
			rs6512258		NULL	19	18575975	18575975	9.86E-07	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA
			rs73791756		WDR55	5	140044315	140044315	1.24E-09	103	26619357	mQTL	Brain	EUR	166	Nature neuroscience	2015	hg19	NA
			rs2820292		IPO9	1	203531099	203531099	4.28E-11	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA
			rs10746		ACOT12	5	80689492	80689492	1.58E-14	96	25206360	mQTL	Brain-Prefrontal_Cortex	MIX	216	Frontiers in genetics	2014	hg19	NA
			rs2234391		DCUN1D1	3	182698605	182698605	1.91E-09	103	26619357	mQTL	Brain	EUR	166	Nature neuroscience	2015	hg19	NA
			rs2234391		MST1R	3	49941425	49941425	7.27E-17	144	30203047	mQTL	Brain	MIX	501	Nucleic acids research	2019	hg19	original reported cis
			rs2234391		GMPPB	3	49761600	49761600	8.16E-12	144	30203047	mQTL	Brain	MIX	501	Nucleic acids research	2019	hg19	original reported cis
			rs2234391		DCUN1D1	3	182698605	182698605	1.01E-25	145	30203047	mQTL	Brain	MIX	501	Nucleic acids research	2019	hg19	original report

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			rs2234391		CRBN	3	3221576	3221576	6.88E-69	145	30203047	mQTL	Brain	MIX	501	Nucleic acids research	2019	hg19	original reported trans
			rs2234391		RBM5	3	50126178	50126178	4.52E-11	152	30203047	mQTL	Brain	MIX	487	Nucleic acids research	2019	hg19	original reported cis
			rs2234391		DCUN1D1	3	182698605	182698605	3.95E-20	153	30203047	mQTL	Brain	MIX	487	Nucleic acids research	2019	hg19	original reported trans
			rs2234391		CRBN	3	3221576	3221576	4.79E-67	153	30203047	mQTL	Brain	MIX	487	Nucleic acids research	2019	hg19	original reported trans
			rs144132576		FAM182B	20	25848786	25848786	4.79E-07	70	30545857	sQTL	Brain	MIX	1866	Science	2018	hg19	NA
			rs2234391		RNF123	3	49726971	49758962	1.17E-18	51	30329095	sQTL	Brain	MIX	514	Nucleic acids research	2019	hg19	NA
Re-experiencing			SNP		Mapped_gene	Trait_chr	Trait_start	Trait_end	Pvalue	Source_id	PMID	xQTL	Tissue	Population	Sample_size	Journal	Year	Genome	Describe
			rs242925		NULL	17	43663208	43663208	2.68E-09	103	26619357	mQTL	Brain	EUR	166	Nature neuroscience	2015	hg19	NA

			rs10767734		NULL	11	28701525	28701525	4.48E-07	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA
			rs62073233		NULL	17	43662625	43662625	1.71E-36	103	26619357	mQTL	Brain	EUR	166	Nature neuroscience	2015	hg19	NA
			rs62073233		NULL	17	43663208	43663208	9.42E-60	103	26619357	mQTL	Brain	EUR	166	Nature neuroscience	2015	hg19	NA
			rs62073233		NULL	17	43662623	43662623	1.01E-30	103	26619357	mQTL	Brain	EUR	166	Nature neuroscience	2015	hg19	NA
			rs62073233		NULL	17	43663579	43663579	4.65E-63	103	26619357	mQTL	Brain	EUR	166	Nature neuroscience	2015	hg19	NA
			rs199441		NULL	17	43662625	43662625	6.42E-24	103	26619357	mQTL	Brain	EUR	166	Nature neuroscience	2015	hg19	NA
			rs199441		NULL	17	43663208	43663208	9.05E-31	103	26619357	mQTL	Brain	EUR	166	Nature neuroscience	2015	hg19	NA
			rs199441		NULL	17	43662623	43662623	3.35E-19	103	26619357	mQTL	Brain	EUR	166	Nature neuroscience	2015	hg19	NA
			rs199441		NULL	17	43663579	43663579	3.34E-36	103	26619357	mQTL	Brain	EUR	166	Nature neuroscience	2015	hg19	NA
			rs67529088		SRPK2	7	105027541	105027541	1.73E-12	144	30203047	mQTL	Brain	MIX	501	Nucleic acids research	2019	hg19	original reported cis

			rs11536594		NULL	7	127743667	127743667	1.83E-16	103	26619357	mQTL	Brain	EUR	166	Nature neuroscience	2015	hg19	NA
			rs11536594		SND1	7	127291580	127291580	1.44E-11	152	30203047	mQTL	Brain	MIX	487	Nucleic acids research	2019	hg19	original reported cis
			rs11536594		SND1	7	127291747	127291747	4.24E-13	152	30203047	mQTL	Brain	MIX	487	Nucleic acids research	2019	hg19	original reported cis
			rs8056104		NULL	16	54354640	54354640	1.54E-11	103	26619357	mQTL	Brain	EUR	166	Nature neuroscience	2015	hg19	NA
			rs8056104		NULL	16	54354640	54354640	3.86E-17	124	28869584	mQTL	Brain-Prefrontal_Cortex	EUR	468	Nature neuroscience	2017	hg19	NA
			rs66548047		CFAP157	9	131429354	131429354	1.95E-15	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA
			rs66548047		PTRH1	9	131436865	131436865	8.64E-09	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA
			rs66548047		CFAP157	9	130469175	130469175	1.73E-13	124	28869584	mQTL	Brain-Prefrontal_Cortex	EUR	468	Nature neuroscience	2017	hg19	NA
			rs576859		CTNND1	11	57528838	57528838	2.40E-09	71	20215007	mQTL	Brain-Cerebellum	EUR	153	American journal of	2010	hg19	original reported cis

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			rs576859		CTNND1	11	57585705	57585705	4.34E-13	144	30203047	mQTL	Brain	MIX	501	Nucleic acids research	2019	hg19	original reported cis
			rs4571		NULL	4	152727874	152727874	1.24E-13	144	30203047	mQTL	Brain	MIX	501	Nucleic acids research	2019	hg19	original reported cis
			rs7216107		UTP6	17	30228624	30228624	4.13E-24	144	30203047	mQTL	Brain	MIX	501	Nucleic acids research	2019	hg19	original reported cis
			rs7216107		NULL	11	113659929	113659929	4.45E-12	145	30203047	mQTL	Brain	MIX	501	Nucleic acids research	2019	hg19	original reported trans
			rs7216107		UTP6	17	30228624	30228624	2.01E-26	152	30203047	mQTL	Brain	MIX	487	Nucleic acids research	2019	hg19	original reported cis
			rs7216107		NULL	11	113659929	113659929	3.66E-27	153	30203047	mQTL	Brain	MIX	487	Nucleic acids research	2019	hg19	original reported trans
			rs11903674		NULL	2	105629677	105629677	1.64E-13	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA

			rs340876		PROX1	1	214162604	214162604	1.43E-09	103	26619357	mQTL	Brain	EUR	166	Nature neuroscience	2015	hg19	NA
			rs340876		NULL	1	216090403	216090403	2.56E-09	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA
			rs340876		NULL	1	216090219	216090219	1.31E-18	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA
			rs340876		NULL	1	216092414	216092414	9.52E-19	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA
			rs340876		NULL	1	214157306	214157306	3.97E-15	124	28869584	mQTL	Brain-Prefrontal_Cortex	EUR	468	Nature neuroscience	2017	hg19	NA
			rs77344887		PLEKHA5	12	19282374	19282374	2.24E-15	152	30203047	mQTL	Brain	MIX	487	Nucleic acids research	2019	hg19	original reported cis
			rs13217929		SYNJ2	6	158595048	158595048	6.48E-22	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA
			rs13217929		SYNJ2	6	158588200	158588200	7.28E-08	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA
			rs13217929		SYNJ2	6	158587965	158587965	1.79E-07	104	26619358	mQTL	Brain-Prefro	MIX	258	Nature neuroscience	2015	hg19	NA

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			rs1321 7929		SYNJ2	6	15859 5080	15859 5080	2.07E- 21	104	26619 358	mQTL	Brain- Prefro ntal_C ortex	MIX	258	Nature neuros cience	2015	hg19	NA
			rs1321 7929		SYNJ2	6	15851 5036	15851 5036	3.83E- 10	126	29142 228	mQTL	Brain- Hippoc ampus	EUR	110	Nature comm unicati ons	2017	hg19	NA
			rs1076 5777		MTMR 2	11	96018 821	96018 821	5.86E- 13	104	26619 358	mQTL	Brain- Prefro ntal_C ortex	MIX	258	Nature neuros cience	2015	hg19	NA
			rs2020 996		TMEM 63C	14	77648 248	77648 248	4.64E- 10	103	26619 357	mQTL	Brain	EUR	166	Nature neuros cience	2015	hg19	NA
			rs2020 996		TMEM 63C	14	78577 951	78577 951	4.72E- 12	104	26619 358	mQTL	Brain- Prefro ntal_C ortex	MIX	258	Nature neuros cience	2015	hg19	NA
			rs2020 996		TMEM 63C	14	78581 423	78581 423	3.34E- 20	104	26619 358	mQTL	Brain- Prefro ntal_C ortex	MIX	258	Nature neuros cience	2015	hg19	NA
			rs2020 996		TMEM 63C	14	78578 495	78578 495	7.79E- 10	104	26619 358	mQTL	Brain- Prefro ntal_C ortex	MIX	258	Nature neuros cience	2015	hg19	NA
			rs2020 996		TMEM 63C	14	77647 704	77647 704	3.01E- 22	124	28869 584	mQTL	Brain- Prefro ntal_C ortex	EUR	468	Nature neuros cience	2017	hg19	NA

			rs2020996		TMEM63C	14	77651176	77651176	1.71E-18	144	30203047	mQTL	Brain	MIX	501	Nucleic acids research	2019	hg19	original reported cis
			rs2020996		TMEM63C	14	77648248	77648248	2.32E-27	144	30203047	mQTL	Brain	MIX	501	Nucleic acids research	2019	hg19	original reported cis
			rs2020996		TMEM63C	14	77651176	77651176	5.31E-13	152	30203047	mQTL	Brain	MIX	487	Nucleic acids research	2019	hg19	original reported cis
			rs2020996		TMEM63C	14	77648248	77648248	2.69E-24	152	30203047	mQTL	Brain	MIX	487	Nucleic acids research	2019	hg19	original reported cis
			rs199441		KANSL1	17	44123487	44123487	1.08E-57	70	30545857	sQTL	Brain	MIX	1866	Science	2018	hg19	NA
			rs199441		KANSL1	17	44270942	44270942	9.45E-16	70	30545857	sQTL	Brain	MIX	1866	Science	2018	hg19	NA
			rs199441		ARL17B	17	44370099	44370099	2.25E-40	70	30545857	sQTL	Brain	MIX	1866	Science	2018	hg19	NA
			rs199441		LINCO2210-CRHR1	17	43861673	43861673	3.53E-07	70	30545857	sQTL	Brain	MIX	1866	Science	2018	hg19	NA
			rs199441		MAPT-AS1	17	43971932	43971932	7.21E-18	70	30545857	sQTL	Brain	MIX	1866	Science	2018	hg19	NA
			rs199441		NULL	17	44320972	44320972	9.80E-07	70	30545857	sQTL	Brain	MIX	1866	Science	2018	hg19	NA
			rs199441		NULL	17	44337972	44337972	2.07E-21	70	30545857	sQTL	Brain	MIX	1866	Science	2018	hg19	NA
			rs199441		NULL	17	44588877	44588877	1.12E-94	70	30545857	sQTL	Brain	MIX	1866	Science	2018	hg19	NA

			rs12065833		KYAT3	1	89401456	89458636	6.47E-10	46	30329095	sQTL	Brain	MIX	499	Nucleic acids research	2019	hg19	NA
			rs12065833		KYAT3	1	89454038	89454038	1.19E-07	70	30545857	sQTL	Brain	MIX	1866	Science	2018	hg19	NA
			rs576859		MED19	11	57471186	57479795	2.96E-07	51	30329095	sQTL	Brain	MIX	514	Nucleic acids research	2019	hg19	NA
			rs13339023		NULL	16	77224732	77224732	1.02E-21	70	30545857	sQTL	Brain	MIX	1866	Science	2018	hg19	NA
			rs7516275		DPH5	1	101491434	101491434	3.44E-34	70	30545857	sQTL	Brain	MIX	1866	Science	2018	hg19	NA
			rs7516275		EXTL2	1	101360368	101360368	9.94E-13	70	30545857	sQTL	Brain	MIX	1866	Science	2018	hg19	NA
Hyperarousal			SNP		Mapped_gene	Trait_chr	Trait_start	Trait_end	Pvalue	Source_id	PMID	xQTL	Tissue	Population	Sample_size	Journal	Year	Genome	Describe
			rs55789728		MAD1L1	7	2142827	2142827	8.63E-11	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA
			rs55789728		MAD1L1	7	2128264	2128264	1.68E-07	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA
			rs55789728		MAD1L1	7	2142924	2142924	6.10E-16	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA
			rs55789728		MAD1L1	7	2142718	2142718	2.58E-11	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA

			rs55789728		MAD1L1	7	2139795	2139795	2.50E-18	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA
			rs55789728		MAD1L1	7	2128102	2128102	3.21E-09	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA
			rs55789728		MAD1L1	7	2141054	2141054	8.82E-13	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA
			rs55789728		MAD1L1	7	2139503	2139503	4.62E-22	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA
			rs55789728		MAD1L1	7	2109244	2109244	6.93E-25	124	28869584	mQTL	Brain-Prefrontal_Cortex	EUR	468	Nature neuroscience	2017	hg19	NA
			rs55789728		MAD1L1	7	2109890	2109890	4.60E-17	124	28869584	mQTL	Brain-Prefrontal_Cortex	EUR	468	Nature neuroscience	2017	hg19	NA
			rs55789728		MAD1L1	7	1882776	1882776	1.56E-11	144	30203047	mQTL	Brain	MIX	501	Nucleic acids research	2019	hg19	original reported cis
			rs55789728		MAD1L1	7	1970798	1970798	4.46E-13	144	30203047	mQTL	Brain	MIX	501	Nucleic acids research	2019	hg19	original reported cis
			rs55789728		STARD3	17	37793320	37793320	7.22E-15	145	30203047	mQTL	Brain	MIX	501	Nucleic acids	2019	hg19	original

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			rs5578 9728		MAD1 L1	7	20878 43	20878 43	1.32E- 12	152	30203 047	mQTL	Brain	MIX	487	Nuclei c acids research	2019	hg19	original reported cis
			rs5578 9728		MAD1 L1	7	20503 86	20503 86	6.18E- 12	152	30203 047	mQTL	Brain	MIX	487	Nuclei c acids research	2019	hg19	original reported cis
			rs5578 9728		MAD1 L1	7	20597 96	20597 96	4.78E- 16	152	30203 047	mQTL	Brain	MIX	487	Nuclei c acids research	2019	hg19	original reported cis
			rs5578 9728		MAD1 L1	7	19707 98	19707 98	9.98E- 16	152	30203 047	mQTL	Brain	MIX	487	Nuclei c acids research	2019	hg19	original reported cis
			rs7398 4391		NULL	17	43662 625	43662 625	4.62E- 22	103	26619 357	mQTL	Brain	EUR	166	Nature neurosci ence	2015	hg19	NA
			rs7398 4391		NULL	17	43663 208	43663 208	5.79E- 32	103	26619 357	mQTL	Brain	EUR	166	Nature neurosci ence	2015	hg19	NA
			rs7398 4391		NULL	17	43662 623	43662 623	8.17E- 16	103	26619 357	mQTL	Brain	EUR	166	Nature neurosci ence	2015	hg19	NA
			rs7398 4391		NULL	17	43663 579	43663 579	3.19E- 24	103	26619 357	mQTL	Brain	EUR	166	Nature neurosci ence	2015	hg19	NA
			rs7398 4391		ARHGA P27	17	46148 145	46148 145	7.81E- 13	104	26619 358	mQTL	Brain- Prefro	MIX	258	Nature neurosci ence	2015	hg19	NA

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			rs7398 4391		ARHGA P27	17	46148 395	46148 395	5.98E- 10	104	26619 358	mQTL	Brain- Prefro ntal_C ortex	MIX	258	Nature neuros cience	2015	hg19	NA
			rs7398 4391		ARHGA P27	17	46127 736	46127 736	5.24E- 07	104	26619 358	mQTL	Brain- Prefro ntal_C ortex	MIX	258	Nature neuros cience	2015	hg19	NA
			rs7398 4391		ARHGA P27	17	46128 252	46128 252	2.65E- 07	104	26619 358	mQTL	Brain- Prefro ntal_C ortex	MIX	258	Nature neuros cience	2015	hg19	NA
			rs7398 4391		ARHGA P27	17	46128 454	46128 454	6.87E- 08	104	26619 358	mQTL	Brain- Prefro ntal_C ortex	MIX	258	Nature neuros cience	2015	hg19	NA
			rs7398 4391		ARHGA P27	17	46129 400	46129 400	3.53E- 21	104	26619 358	mQTL	Brain- Prefro ntal_C ortex	MIX	258	Nature neuros cience	2015	hg19	NA
			rs7398 4391		ARHGA P27	17	46148 000	46148 000	6.43E- 34	104	26619 358	mQTL	Brain- Prefro ntal_C ortex	MIX	258	Nature neuros cience	2015	hg19	NA
			rs7398 4391		ARHGA P27	17	46128 117	46128 117	6.16E- 07	104	26619 358	mQTL	Brain- Prefro ntal_C ortex	MIX	258	Nature neuros cience	2015	hg19	NA
			rs7398 4391		ARHGA P27	17	43482 735	43482 735	1.59E- 27	124	28869 584	mQTL	Brain- Prefro ntal_C ortex	EUR	468	Nature neuros cience	2017	hg19	NA

			rs73984391		ARHGA P27	17	43483527	43483527	3.90E-12	124	28869584	mQTL	Brain-Prefrontal_Cortex	EUR	468	Nature neuroscience	2017	hg19	NA
			rs73984391		ARHGA P27	17	43484399	43484399	9.16E-29	124	28869584	mQTL	Brain-Prefrontal_Cortex	EUR	468	Nature neuroscience	2017	hg19	NA
			rs2668653		NULL	17	43662625	43662625	1.79E-47	103	26619357	mQTL	Brain	EUR	166	Nature neuroscience	2015	hg19	NA
			rs2668653		NULL	17	43663208	43663208	1.19E-85	103	26619357	mQTL	Brain	EUR	166	Nature neuroscience	2015	hg19	NA
			rs2668653		NULL	17	43662623	43662623	1.87E-37	103	26619357	mQTL	Brain	EUR	166	Nature neuroscience	2015	hg19	NA
			rs2668653		NULL	17	43663579	43663579	1.08E-66	103	26619357	mQTL	Brain	EUR	166	Nature neuroscience	2015	hg19	NA
			rs2668653		NULL	17	46940121	46940121	2.77E-11	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA
			rs2668653		NULL	17	46946887	46946887	1.95E-37	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA
			rs2668653		NULL	17	46914259	46914259	1.65E-09	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA

			rs1412049		PHF2	9	96362102	96362102	2.74E-11	103	26619357	mQTL	Brain	EUR	166	Nature neuroscience	2015	hg19	NA
			rs9871654		DCUN1D1	3	182698605	182698605	4.53E-09	103	26619357	mQTL	Brain	EUR	166	Nature neuroscience	2015	hg19	NA
			rs9871654		MST1R	3	49941425	49941425	1.24E-15	144	30203047	mQTL	Brain	MIX	501	Nucleic acids research	2019	hg19	original reported cis
			rs9871654		GMPPB	3	49761600	49761600	4.74E-12	144	30203047	mQTL	Brain	MIX	501	Nucleic acids research	2019	hg19	original reported cis
			rs9871654		DCUN1D1	3	182698605	182698605	3.81E-24	145	30203047	mQTL	Brain	MIX	501	Nucleic acids research	2019	hg19	original reported trans
			rs9871654		CRBN	3	3221576	3221576	3.97E-67	145	30203047	mQTL	Brain	MIX	501	Nucleic acids research	2019	hg19	original reported trans
			rs9871654		RBM5	3	50126178	50126178	1.96E-11	152	30203047	mQTL	Brain	MIX	487	Nucleic acids research	2019	hg19	original reported cis
			rs9871654		DCUN1D1	3	182698605	182698605	1.61E-20	153	30203047	mQTL	Brain	MIX	487	Nucleic acids research	2019	hg19	original reported trans

			rs9871654		CRBN	3	3221576	3221576	1.29E-66	153	30203047	mQTL	Brain	MIX	487	Nucleic acids research	2019	hg19	original reported trans
			rs58314091		MAP3K14	17	43361331	43361331	6.66E-10	103	26619357	mQTL	Brain	EUR	166	Nature neuroscience	2015	hg19	NA
			rs2240326		RBM5	3	49736940	49736940	3.69E-08	76	20485568	mQTL	Brain-Pons	EUR	150	PLoS genetics	2010	hg19	NA
			rs2240326		RBM5	3	50126028	50126028	1.08E-14	103	26619357	mQTL	Brain	EUR	166	Nature neuroscience	2015	hg19	NA
			rs2240326		RBM5	3	50151024	50151024	2.40E-36	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA
			rs2240326		RBM5	3	50151063	50151063	1.02E-27	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA
			rs2240326		RBM5	3	50151174	50151174	2.67E-07	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA
			rs2240326		RBM5	3	50126028	50126028	7.39E-13	144	30203047	mQTL	Brain	MIX	501	Nucleic acids research	2019	hg19	original reported cis
			rs2240326		RBM5	3	50126178	50126178	6.14E-17	144	30203047	mQTL	Brain	MIX	501	Nucleic acids research	2019	hg19	original reported cis

			rs2240326		MST1R	3	49941425	49941425	4.07E-26	144	30203047	mQTL	Brain	MIX	501	Nucleic acids research	2019	hg19	original reported cis
			rs2240326		CRBN	3	3221576	3221576	1.27E-18	145	30203047	mQTL	Brain	MIX	501	Nucleic acids research	2019	hg19	original reported trans
			rs2240326		RBM5	3	50126028	50126028	4.36E-15	152	30203047	mQTL	Brain	MIX	487	Nucleic acids research	2019	hg19	original reported cis
			rs2240326		RBM5	3	50126178	50126178	1.99E-23	152	30203047	mQTL	Brain	MIX	487	Nucleic acids research	2019	hg19	original reported cis
			rs2240326		MST1R	3	49941408	49941408	6.65E-11	152	30203047	mQTL	Brain	MIX	487	Nucleic acids research	2019	hg19	original reported cis
			rs2240326		CRBN	3	3221576	3221576	1.46E-31	153	30203047	mQTL	Brain	MIX	487	Nucleic acids research	2019	hg19	original reported trans
			rs2847308		SELENOH	11	57752101	57752101	1.53E-11	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA
			rs2847308		CTNND1	11	57585705	57585705	4.82E-14	144	30203047	mQTL	Brain	MIX	501	Nucleic acids research	2019	hg19	original reported cis

			rs11771283		MAD1L1	7	2143364	2143364	1.57E-09	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA
			rs11771283		MAD1L1	7	2153742	2153742	1.19E-07	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA
			rs11771283		MAD1L1	7	2153755	2153755	2.02E-10	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA
			rs11771283		MAD1L1	7	2109353	2109353	4.53E-09	124	28869584	mQTL	Brain-Prefrontal_Cortex	EUR	468	Nature neuroscience	2017	hg19	NA
			rs11771283		MAD1L1	7	2109450	2109450	5.60E-11	124	28869584	mQTL	Brain-Prefrontal_Cortex	EUR	468	Nature neuroscience	2017	hg19	NA
			rs11771283		MAD1L1	7	2114593	2114593	3.41E-10	124	28869584	mQTL	Brain-Prefrontal_Cortex	EUR	468	Nature neuroscience	2017	hg19	NA
			rs2073512		WDR55	5	140064108	140064108	3.09E-09	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA
			rs2073512		WDR55	5	140064131	140064131	1.01E-10	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA

			rs2073512		DND1	5	140073166	140073166	1.84E-10	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA
			rs56163088		NRXN1	2	51386806	51386806	6.75E-07	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA
			rs4792849		NULL	17	43663208	43663208	2.62E-10	103	26619357	mQTL	Brain	EUR	166	Nature neuroscience	2015	hg19	NA
			rs28380938		NULL	6	31213454	31213454	1.36E-09	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA
			rs1972930		NULL	17	13755355	13755355	9.15E-09	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA
			rs16974049		NULL	16	85983617	85983617	1.88E-08	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA
			rs7788052		SDK1	7	3340860	3340860	3.21E-12	103	26619357	mQTL	Brain	EUR	166	Nature neuroscience	2015	hg19	NA
			rs11074041		SLCO3A1	15	94860545	94860545	2.67E-10	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA
			rs11074041		SLCO3A1	15	92661549	92661549	3.15E-12	124	28869584	mQTL	Brain-Prefrontal_Cortex	EUR	468	Nature neuroscience	2017	hg19	NA

			rs6122049		TCEA2	20	62697566	62697566	2.04E-10	124	28869584	mQTL	Brain-Prefrontal_Cortex	EUR	468	Nature neuroscience	2017	hg19	NA
			rs7782175		LRGUK	7	134175563	134175563	7.26E-17	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA
			rs6544333		SLC8A1	2	40599006	40599006	2.26E-10	124	28869584	mQTL	Brain-Prefrontal_Cortex	EUR	468	Nature neuroscience	2017	hg19	NA
			rs3754733		MAPRE3	2	27380368	27380368	2.64E-09	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA
			rs3754733		MAPRE3	2	27395845	27395845	1.51E-08	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA
			rs3754733		MAPRE3	2	27249349	27249349	4.54E-10	124	28869584	mQTL	Brain-Prefrontal_Cortex	EUR	468	Nature neuroscience	2017	hg19	NA
			rs55789728		AC069288.1	7	2281804	2281804	1.24E-10	70	30545857	sQTL	Brain	MIX	1866	Science	2018	hg19	NA
			rs1412049		FAM120AOS	9	96213806	96213806	5.27E-09	70	30545857	sQTL	Brain	MIX	1866	Science	2018	hg19	NA
			rs2887882		ST7L	1	113066136	113163447	8.13E-18	46	30329095	sQTL	Brain	MIX	499	Nucleic acids research	2019	hg19	NA
			rs2887882		MOV10	1	113215763	113243368	6.26E-10	46	30329095	sQTL	Brain	MIX	499	Nucleic acids	2019	hg19	NA

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			rs2887882		ST7L	1	113161766	113161766	9.27E-16	70	30545857	sQTL	Brain	MIX	1866	Science	2018	hg19	NA
			rs2887882		NULL	1	113009163	113009163	1.12E-13	70	30545857	sQTL	Brain	MIX	1866	Science	2018	hg19	NA
			rs9871654		RNF123	3	49726971	49758962	1.23E-18	51	30329095	sQTL	Brain	MIX	514	Nucleic acids research	2019	hg19	NA
			rs9871654		CAMKV	3	49907336	49907336	1.46E-13	70	30545857	sQTL	Brain	MIX	1866	Science	2018	hg19	NA
			rs9871654		IP6K1	3	49823960	49823960	3.45E-08	70	30545857	sQTL	Brain	MIX	1866	Science	2018	hg19	NA
			rs2240326		RBM6	3	49977440	50137478	2.35E-08	46	30329095	sQTL	Brain	MIX	499	Nucleic acids research	2019	hg19	NA
			rs2240326		RBM6	3	49977440	50137478	6.67E-17	51	30329095	sQTL	Brain	MIX	514	Nucleic acids research	2019	hg19	NA
			rs2847308		MED19	11	57471186	57479795	9.07E-07	51	30329095	sQTL	Brain	MIX	514	Nucleic acids research	2019	hg19	NA
			rs11771283		MAD1L1	7	1912392	1912392	1.44E-07	70	30545857	sQTL	Brain	MIX	1866	Science	2018	hg19	NA
			rs11771283		AC069288.1	7	2281804	2281804	9.53E-07	70	30545857	sQTL	Brain	MIX	1866	Science	2018	hg19	NA
			rs12491672		ZBTB20	3	114070658	114070658	2.89E-07	70	30545857	sQTL	Brain	MIX	1866	Science	2018	hg19	NA

			rs10161037		NULL	12	117890817	117890817	3.75E-07	70	30545857	sQTL	Brain	MIX	1866	Science	2018	hg19	NA
			rs6122049		NULL	20	62681189	62681189	2.76E-09	70	30545857	sQTL	Brain	MIX	1866	Science	2018	hg19	NA
			rs2073512		CD14	5	140011313	140013286	4.16E-36	13	30111768	pQTL	Blood	EUR	6861	Nature communications	2018	hg19	NA
PCL-total	rsid			Mappe_d_gene	Trait_chr	Trait_start	Trait_end	Pvalue	Sourceid	PMID	xQTL	Tissue	Popula tion	Sampl e_size	Journa l	Year	Genom e	Descri be	Title
	rs17552977		SOX6	11	16357841	16357841	5.42E-12	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA	Mapping DNA methylation across development, genotype and schizophrenia in the human frontal cortex	
	rs547891			SELENOH	11	57752101	57752101	1.53E-11	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA	Mapping DNA methylation across development, genotype

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	rs547891			CTNND1	11	57585705	57585705	4.82E-14	144	30203047	mQTL	Brain	MIX	501	Nuclei c acids research	2019	hg19	original reported cis	Pancan-meQTL : a database to systematically evaluate the effects of genetic variants on methylation in human cancer
	rs560050580		NULL	17	43662625	43662625	4.14E-30	103	26619357	mQTL	Brain	EUR	166	Nature neuroscience	2015	hg19	NA	Methylation QTLs in the	

																		develo ping brain and their enrich ment in schizop hrenia risk loci
	rs5600 50580		NULL	17	436632 08	436632 08	1.13E- 44	103	266193 57	mQTL	Brain	EUR	166	Nature neuros cience	2015	hg19	NA	Methyl ation QTLs in the develo ping brain and their enrich ment in schizop hrenia risk loci
	rs5600 50580		NULL	17	436626 23	436626 23	6.82E- 24	103	266193 57	mQTL	Brain	EUR	166	Nature neuros cience	2015	hg19	NA	Methyl ation QTLs in the develo ping brain and

																		their enrichment in schizophrenia risk loci
	rs560050580		NULL	17	43663579	43663579	2.83E-38	103	26619357	mQTL	Brain	EUR	166	Nature neuroscience	2015	hg19	NA	Methylation QTLs in the developing brain and their enrichment in schizophrenia risk loci
	rs4788878		MIF4GD	17	75755864	75755864	5.81E-09	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA	Mapping DNA methylation across development, genotype and schizophrenia in the

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	rs4788878		NUP85	17	73230827	73230827	3.91E-50	152	30203047	mQTL	Brain	MIX	487	Nucleic acids research	2019	hg19	original reported cis	Pancan - meQTL: a database to systematically evaluate the effects of genetic variants on methylation in human cancer
	rs10484587		RGMB	5	98106108	98106108	4.51E-09	103	26619357	mQTL	Brain	EUR	166	Nature neuroscience	2015	hg19	NA	Methylation QTLs in the developing brain and their enrichment in schizop

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	rs28380933		NULL	6	31213454	31213454	1.46E-12	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA	Mapping DNA methylation across development, genotype and schizophrenia in the human frontal cortex
	rs2505060		NULL	6	98744658	98744658	1.39E-12	152	30203047	mQTL	Brain	MIX	487	Nucleic acids research	2019	hg19	original reported cis	Pancan - meQTL: a database to systematically evaluate the effects of genetic variants on methyl

																		ation in human cancer
	rs6964432		LRGUK	7	134175563	134175563	1.23E-15	104	26619358	mQTL	Brain-Prefrontal_Cortex	MIX	258	Nature neuroscience	2015	hg19	NA	Mapping DNA methylation across development, genotype and schizophrenia in the human frontal cortex
	rs2895249		PHF2	9	96362102	96362102	9.21E-12	103	26619357	mQTL	Brain	EUR	166	Nature neuroscience	2015	hg19	NA	Methylation QTLs in the developing brain and their enrichment in schizophrenia risk loci

	rs547891			MED19	11	5747186	57479795	9.07E-07	51	30329095	sQTL	Brain	MIX	514	Nucleic acids research	2019	hg19	NA	Cancer Splicing QTL: a database for genome-wide identification of splicing QTLs in human cancer
	rs547891			MED19	11	57479673	57479673	8.61E-11	70	30545857	sQTL	Brain	MIX	1866	Science	2018	hg19	NA	Comprehensive functional genomic resource and integrative model for the human brain
	rs547891			TMX2-CTNND1	11	57520715	57520715	5.46E-11	70	30545857	sQTL	Brain	MIX	1866	Science	2018	hg19	NA	Comprehensive

																			functional genomic resource and integrative model for the human brain
	rs560050580		WNT3	17	44896126	44896126	2.96E-08	70	30545857	sQTL	Brain	MIX	1866	Science	2018	hg19	NA	Comprehensive functional genomic resource and integrative model for the human brain	
	rs560050580		KANSL1	17	44123487	44123487	9.50E-15	70	30545857	sQTL	Brain	MIX	1866	Science	2018	hg19	NA	Comprehensive functional genomic resource and integrative model for the human brain	

																		resource and integrative model for the human brain
	rs560050580		KANSL1	17	44270942	44270942	1.22E-17	70	30545857	sQTL	Brain	MIX	1866	Science	2018	hg19	NA	Comprehensive functional genomic resource and integrative model for the human brain
	rs560050580		LRRC37A4P	17	43623170	43623170	6.24E-10	70	30545857	sQTL	Brain	MIX	1866	Science	2018	hg19	NA	Comprehensive functional genomic resource and integrative

																		model for the human brain
	rs560050580		PLEKH M1	17	43568110	43568110	1.60E-10	70	30545857	sQTL	Brain	MIX	1866	Science	2018	hg19	NA	Comprehensive functional genomic resource and integrative model for the human brain
	rs560050580		ARL17 B	17	44370099	44370099	1.41E-74	70	30545857	sQTL	Brain	MIX	1866	Science	2018	hg19	NA	Comprehensive functional genomic resource and integrative model for the human brain

	rs560050580		ARL17B	17	44439130	44439130	7.41E-07	70	30545857	sQTL	Brain	MIX	1866	Science	2018	hg19	NA	Comprehensive functional genomic resource and integrative model for the human brain
	rs560050580		LINC02210-CRHR1	17	43861673	43861673	1.58E-11	70	30545857	sQTL	Brain	MIX	1866	Science	2018	hg19	NA	Comprehensive functional genomic resource and integrative model for the human brain
	rs560050580		NULL	17	43663237	43663237	5.86E-07	70	30545857	sQTL	Brain	MIX	1866	Science	2018	hg19	NA	Comprehensive functio

																		nal genomic resource and integrative model for the human brain
	rs560050580		NULL	17	43679706	43679706	9.89E-24	70	30545857	sQTL	Brain	MIX	1866	Science	2018	hg19	NA	Comprehensive functional genomic resource and integrative model for the human brain
	rs560050580		NULL	17	43697694	43697694	1.66E-45	70	30545857	sQTL	Brain	MIX	1866	Science	2018	hg19	NA	Comprehensive functional genomic resource

																		e and integrative model for the human brain
	rs560050580		NULL	17	44320972	44320972	9.55E-10	70	30545857	sQTL	Brain	MIX	1866	Science	2018	hg19	NA	Comprehensive functional genomic resource and integrative model for the human brain
	rs560050580		NULL	17	44337972	44337972	8.07E-28	70	30545857	sQTL	Brain	MIX	1866	Science	2018	hg19	NA	Comprehensive functional genomic resource and integrative model

																		for the human brain
	rs560050580		NULL	17	44344403	44344403	1.28E-13	70	30545857	sQTL	Brain	MIX	1866	Science	2018	hg19	NA	Comprehensive functional genomic resource and integrative model for the human brain
	rs560050580		NULL	17	44588877	44588877	4.27E-27	70	30545857	sQTL	Brain	MIX	1866	Science	2018	hg19	NA	Comprehensive functional genomic resource and integrative model for the human brain

	rs4788878		GGA3	17	73232694	73258444	1.83E-09	51	30329095	sQTL	Brain	MIX	514	Nucleic acids research	2019	hg19	NA	Cancer SplicingQTL: a database for genome-wide identification of splicing QTLs in human cancer
	rs4788878		NUP85	17	73201754	73231853	1.39E-20	51	30329095	sQTL	Brain	MIX	514	Nucleic acids research	2019	hg19	NA	Cancer SplicingQTL: a database for genome-wide identification of splicing QTLs in human cancer
	rs6964432		NULL	7	133812052	133812052	6.17E-07	70	30545857	sQTL	Brain	MIX	1866	Science	2018	hg19	NA	Comprehensive function

																		nal genomic resource and integrative model for the human brain
	rs2895249		FAM120AOS	9	96213806	96213806	2.36E-09	70	30545857	sQTL	Brain	MIX	1866	Science	2018	hg19	NA	Comprehensive functional genomic resource and integrative model for the human brain

Table 2: Colocalization analysis for genes that were significant for brain-tissue TWAS of PCL-total

The colocalization analysis using coloc R package was performed to obtain shared causal loci posterior probability of H4 hypothesis (i.e. both traits -PCL-17 and tissue specific QTLs are associated and share a single causal variant). The table shows the H4 probability for 13 brain tissues from the GTEx v8. The genes that were not found in the tissue are greyed.

	Amygdala	Anterior cingulate cortex BA24	Caudate basal ganglia	Cerebellar Hemisphere	Cerebellum	Cortex	Frontal Cortex BA9	Hippocampus	Hypothalamus	Nucleus accumbens basal ganglia	Putamen basal ganglia	Spinal cord cervical c-1	Substantia nigra
<i>AMT</i>	17%	0%	0%	0%	0%	0%	0%	0%	3%	0%			
<i>RNF123</i>	90%	89%	51%	92%	92%	91%	87%	55%	90%	92%			
<i>FAM212A</i>	5%	7%	10%	92%	92%	10%	8%	12%	6%	47%	10%	5%	7%
<i>MST1R</i>	8%	70%	91%	79%	74%	84%	37%	27%	44%	70%			
<i>RBM6</i>	56%	76%	76%	72%	63%	64%	73%	66%	67%	64%			
<i>FMNL1</i>	8%	5%	6%	68%	71%	5%	11%	6%	8%	8%			
<i>ARHGAP27</i>	5%	7%	72%	64%	77%	89%	26%	10%	17%	70%			
<i>PLEKHM1</i>	89%	89%	90%	67%	70%	91%	88%	72%	56%	90%			
<i>RP11-798G7.8</i>	28%	35%	10%	64%	71%	54%	19%	15%	9%	6%	21%	6%	7%
<i>RP11-798G7.6</i>	7%	8%	5%	1%	37%	17%		7%	11%	6%	15%	6%	6%
<i>LRRC37A4P</i>	69%	70%	70%	70%	70%	70%	70%	70%	70%	70%			
<i>DND1P1</i>	70%	69%	69%	60%	70%	70%	66%	70%	70%	70%	70%	68%	68%
<i>RP11-707O23.5</i>	70%	70%	69%	69%	70%	70%	69%	70%	70%	71%	70%	69%	69%
<i>CRHR1-IT1</i>	69%	69%	70%	74%	76%	69%	70%	70%	70%	70%			
<i>CRHR1</i>	17%	5%	51%	9%	6%	24%	35%	85%	10%	62%			
<i>SPPL2C</i>	5%	11%	9%	62%	66%	39%	81%	6%	7%	8%			
<i>MAPT</i>	7%	11%	35%	16%	51%	6%	13%	9%	6%	5%			
<i>RP11-259G18.2</i>	40%	33%	5%	65%	66%	69%	20%	24%	6%	9%	47%	56%	67%
<i>RP11-259G18.3</i>	26%	5%	50%	43%	70%	28%	6%	6%	13%	9%	40%	43%	12%
<i>RP11-259G18.1</i>	69%	42%	65%	70%	70%	74%	60%	64%	48%	68%	54%	34%	58%
<i>LRRC37A2</i>	96%	98%	98%	97%	98%	96%	96%	98%	97%	98%			
<i>ARL17A</i>	96%	93%	96%	96%	97%	97%	97%	97%	94%	97%			

