

Article title: Familial analysis reveals rare risk variants for migraine in regulatory regions

Journal name: Neurogenetics

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Supplementary table 2. Summary of the results obtained from the familial association analysis.

The table gives the name of the migraine risk loci, the number of regulatory regions per locus with a significant increased burden, the genomic positions of the regulatory regions, the type of regulatory regions, and the Bonferroni-corrected p -value.

Locus	Number of regulatory regions	Position (chromosome:start:end)	Type	p -value
<i>PRDM16</i>	1	chr1:3585916:3586226	TFBS	0.043
<i>MEF2D</i>	3	chr1:156243980:156248680	Enhancer	0.011
		chr1:156245314:156248566	TFBS	0.048
		chr1:156490646:156490706	Promoter	0.046
<i>CARF</i>	5	chr2:202018973:202019707	Enhancer	0.042
		chr2:202030311:202040075	Enhancer	0.011
		chr2:202632257:202638540	Enhancer	0.029
		chr2:202032663:202036149	CpG island	$4.2 \cdot 10^{-3}$
		chr2:202060232:202060832	Insulator	$1.5 \cdot 10^{-3}$
Near <i>GPR149</i>	1	chr3:153957426:153957670	TFBS	0.011
Near <i>REST-SPINK2</i>	3	chr4:56212277:56215077	PRE	$5.6 \cdot 10^{-5}$
		chr4:56505416:56505856	CpG island	0.026
		chr4:56904877:56906077	PRE	$3.3 \cdot 10^{-3}$
<i>PHACTR1</i>	1	chr6:13486092:13488560	CpG island	0.044
Near <i>NOTCH4</i>	1	chr6:31652354:31652414	Promoter	0.044
<i>KCNK5</i>	1	chr6:39310446:39312846	PRE	0.011
<i>ASTN2</i>	2	chr9:116284900:116285300	PRE	0.011
		chr9:117488447:117488857	TFBS	$1.3 \cdot 10^{-3}$
<i>PLCE1</i>	1	chr10:94005223:94008418	Enhancer	0.017
<i>HPSE2</i>	1	chr10:99840130:99840469	CpG island	0.017
<i>MRVII</i>	1	chr11:11235277:11237077	PRE	0.026

<i>MPPED2</i>	1	chr11:30582477:30583677	PRE	0.036
Near <i>FGF6</i>	1	chr12:3489902:3490712	TFBS	0.014
<i>LRP1-STAT6- SDR9C7</i>	2	chr12:56718130:56726985	Enhancer	$6.0 \cdot 10^{-3}$
		chr12:56721185:56721850	TFBS	0.046
<i>CFDP1</i>	2	chr16:74775601:74776201	PRE	0.018
		chr16:75799001:75799201	Insulator	$3.2 \cdot 10^{-4}$
Near <i>ZCCHC14</i>	2	chr16:88502859:88503083	CpG island	0.046
		chr16:88538891:88539691	PRE	0.038
<i>RNF213</i>	5	chr17:79742606:79746206	PRE	$5.7 \cdot 10^{-3}$
		chr17:79745858:79748878	Enhancer	0.025
		chr17:79774606:79774806	Insulator	$1.4 \cdot 10^{-3}$
		chr17:79923138:79934231	Enhancer	0.048
		chr17:79942885:79943117	CpG island	0.028
Near <i>JAG1</i>	1	chr20:10224244:10224304	Promoter	0.022
<i>SLC24A3</i>	2	chr20:19462556:19462956	Insulator	0.047
		chr20:19918942:19919342	TFBS	0.016
Near <i>CCM2L- HCK</i>	2	chr20:32316663:32317179	TFBS	0.039
		chr20:32496934:32497344	TFBS	0.013