

Supplementary Figure 1. P-values for migraine associated gene expression across CNS, PNS and neurovascular cells

	Ast	Olg	Exc	Inh	Mcg	Sgl	Sch	Nor	Cho	PEP	NF	NP	cLTMR	Lep	Smo	End
ECM1								***						***	***	***
NOTCH4															***	***
REST		***				***								***	*	***
YAP1	***		***			**	*							***	***	***
TGFBR2					***									***	***	***
GPR182														***	***	**
PLCE1						**			***						***	
MRVI1											*			***	***	
JAG1	*					***						**		***	***	***
HEY2						***		***		*		***			***	
NAB2			***		*	***			**				***	***		
BCAR1		***		***				***	**	***	*	***	*			
UFL1		***	***	***			*	***	*	**		***				
HCK					***											
ARHGEF26	***					***	*									
LRP1	***		***	***										***		
GJA1	***					***								***		
HTRA1	***					***					***			***		
WSCD1		***														
PLEKHA1		***						***								
TSPAN2		***														
NEGR1			***	***												
SLC24A3			***	***												
TRIM32			***	***				***	***	**	**	***	***			
ZCCHC14			***	***				***	***	***		***	**			
ABI2			***	***						*		***				
MEF2D			***	***				***	***	***	***	***	***			
PHACTR1		***	***	***					***		*	***	***			

CFDP1		***	***	***		***	***	***	***	***	***			
BCAS2		***	***	***		***	***	***	***	***	***			
RBMS3			***			***	***	***	***	***	***			
MPPED2		***				***	**	***	*	***	***			
CSDE1		***	***			***	***	***	***	***	***			
MRPS21		***	***			***	***		***	***				
NCOA7		***	***			***	***	***	***	***	***			
NRP1		***				***	***	***	***	***	***		***	
RAPH1		***	***			***	***	***	***	***	***			
ICA1L		***	***			***	***	***	*	***	***			
NRAS	***				*	***	***	***	***	***	***		***	
JPH3		***	***			***	***	***	***	***	***			
WDR12		***	***			***	***	***	***	***	***			
SIKE1		***	***			***	**	**	*	***	**		***	***
NBEAL1	***		***			***	***	***	***	***	***		***	***
ITPK1	***	***				***	***	***		***	***		**	
CYP20A1	***			***	***	***	***	***		***	***			
FAM117B		***	***			***	**	***		***	***			
STAT6				***	***	***	***	***	***	***	***	***	***	***
DHX36		***	***			***	*	***	**	***	***			
MYO1A						***		**	***	***	***			
HELLS					**					***	***			
GPR149			***					***		***				
RPRD2		***	***			***	***	***	**	***	***			
IMMP2L		***	***		*	***	***	*	**	***	**			
TARS2		***	***			***	***	*	**	***	**			
MED14		***	***			***	***	***	***	***	***			
DOCK4		***					**			***	**			
APH1A									*	*	***		***	
NOC3L	***	***	***			**		*	*	**				
PRPF3		***	***			***	**			**				

TBC1D12	***	***	***		***	***
USP9X		***	***	***		
TRPM8					***	

Legend: Data is from Zeisel et al. Genes are ordered such that they match the order of Figure 1. P values are represented as follows *** ≤ 0.001 ; ** ≤ 0.01 ; * ≤ 0.05 . Values that were non-significant ($p \geq 0.05$) are left blank). Abbreviations: Ast. = Astrocytes, Olg = Oligodendrocytes, Exc = excitatory neurons, Inh = Inhibitory neurons, Mcg = microglia, Sgl = satellite glia, Sch = Schwann cells, Nor = sympathetic noradrenergic, Cho = sympathetic cholinergic, Pep = peptidergic nociceptive, Nf = neurofibrillary nociceptive, Np = non-peptidergic nociceptive, Lep = vascular leptomeningeal, Smt - vascular smooth muscle, End = Vascular endothelial. Eight genes (*REST*, *YAP*, *APH1A*, *NOC3L*, *PRPF3*, *TBC1D12*, *USP9X*, *TRPM8*) are included which did not meet the cutoff for the Zeisel et al. dataset, but which did meet the cutoff for the TG dataset. Although these genes were included in the heatmaps as well as the supplementary tables, they were not included in the quantitative description of results of the Zeisel et al. dataset.