

# Table S1

## VEGF-A-regulated genes in human CNS microvascular endothelial cultures

	<u>Gene Symbol</u>	<u>Name</u>	<u>PMID</u>	<u>Angio genesis</u>	<u>Vegf</u>	<u>Migr.</u>	<u>ncRNA</u>	<u>Prolif.</u>	<u>Perm.</u>
Most strongly upregulated	RGCC	Regulator of cell cycle	PMID: 11687586					X	
	ESM1	Endocan	PMID: 23243026	X	X				
	FABP4	Fatty acid BP 4	PMID: 24939870	X	X				
	PODXL	Podocalyxin-like	PMID: 18456258				X		
	APLN	Apelin	PMID: 16750822	X					
	AKAP12	SSeCKS	PMID: 12808449						X
	TNFSF4	Gp34	PMID: 10914497					X	
	ETS1	Ets-1 transcription factor	PMID: 11795259	X					
	ANGPT2	Angiopoietin-2	PMID: 16056241						X
	MGST2	microsomal glutathione S-transferase 2	PMID: 11322876						X
	CD34	CD34	PMID: 18987355				X		
	GPR116	Gpr116	PMID: 24008316				X		
	C10orf10	DEPP	PMID: 15977181	X					
	SLC12A2	Nkcc1	PMID: 20035575						
	PNP	Purine nucleoside phosphorylase	PMID: 8987089						
	ITGA6	Integrin alpha 6	PMID: 20570893	X	X				
	TCF4	Tcf4	PMID: 20231428	X					X
	HECW2	Nedl2	PMID: 24163370					X	
	ANTXR1	Anthrax toxin receptor 1 / TEM8	PMID: 15777794				X		
	PGF	PlGF, placental growth factor	PMID: 1924389	X	X				
	SULF2	Sulfatase 2	PMID: 16417632		X				
	DYSF	Dysferlin	PMID: 20724702				X	X	
	CTNNB1	Beta catenin	PMID: 24590145						X
	NEDD9	Neural precursor, dev. downregulated-9	PMID: 20498643		X	X			
	LPNH2	Latrophilin 2	PMID: 17016846						
	MMP10	Matrix metalloproteinase 10	PMID: 20432469	X	X				
	CD55	Decay accelerating factor	PMID: 1688581						
	RASGRP3	Ras guanine-releasing protein 3	PMID: 15572660	X					
	NDRG1	N-myc downstream regulated	PMID: 198281151	X					
	PARBPB	PARP-1 binding protein	PMID: 20931645					X	
	PLXNA2	Plexin A2	PMID: 15739224			X			
	CXCR4	Chemokine receptor CXCR4	PMID: 9634237	X	X				
	FAM89A	FAM89A	None						
	HLX	Homeobox TF HLX1	PMID: 21224470	X	X				
	TSPAN13	Tetraspanin-13	PMID: 17486367					X	
	KIT	c-Kit	PMID: 14515175	X	X				
	VASH1	Vasohibin1	PMID: 23100270	X	X				
	SYNM	Synemin	PMID: 19124017				X		
	PDGFD	Platelet derived growth factor -d	PMID: 19028801						
	PDGFB	Platelet derived growth factor -b	PMID: 19164813	X					
	DUSP5	Dual-specificity phosphatase-5	PMID: 19741200		X			X	
	UACA	Nucling	PMID: 14961764						
	A2M	Alpha 2 macroglobulin	PMID: 10862607			X			
	GMFG	Glia maturation factor	PMID: 16873721	X		X			
	SPRY1	Sprouty 1	PMID: 14515177	X	X				
SPRY4	Sprouty 4	PMID: 20835243	X	X					
PRDM1	BLIMP1	PMID: 24477914							
MEF2C	Myocyte enhancer factor 2c	PMID: 24988463	X						
PALD1	Paladin 1	PMID: 22354871	X						
HSD17B2	Hydroxysteroid (17β) dehydrogenase 2	PMID: 9768688							
MYCN	N-Myc	PMID: 10969812	X						
PCDH19	Protocadherin 19	PMID: 22704920							
Most strongly downregulated	RNU6ATAC	RNA, U6atac small nuclear	PMID: 11971955					X	
	TLL1	Tolloid-like 1	PMID: 15591058	X					
	MAFB	MAFB	PMID: 8620536	X					
	GDF3	Growth differentiation factor-3	PMID: 17610369						
	KLRG1	Killer cell lectin receptor G, member 1	PMID: 20201037						
	SULT1B1	Sulfotransferase 1B 1	PMID: 9291833						
	RNU4-2	RNA, U4 small nuclear 2	None					X	
	SNORD3A	RNA, C/D box, small nucleolar 3A	None					X	
	ACKR3	CXCR7	PMID: 16940167	X					
	FST	Follistatin	PMID: 21689628	X					
	MGARP	Mitochondrial glutamic acid-rich protein	PMID: 23209644						
	GPR126	G protein coupled receptor 26	PMID: 15225624				X		
	RGS4	Regulator of G protein signaling 4	PMID: 15548600	X	X				
	SNORD3D	RNA, C/D box, small nucleolar 3D	None					X	
	AMTN	Amelotin	PMID: 21154245						
	ARL4A	ADP-ribosylation factor-like 4A	PMID: 21930703				X		
	CDH11	Cadherin 11	PMID: 23951053			X			
	HTR2B	Serotonin receptor 2B	PMID: 19308295	X					
	AKR1C3	Aldo-keto reductase 1, C3	PMID: 21134280	X					
	RNVU1-7	RNA, variant U1 small nuclear 7	None					X	
	RNU1-3	RNA, U1 small nuclear 3	None					X	
	NDRG4	NDRG4	PMID: 22869042	X					
	RNVU1-18	RNA, variant U1 small nuclear 18	None					X	
	RNU1-1	RNA, U1 small nuclear 1	PMID: 8527382					X	
	RN7SK	RNA, 7SK	PMID: 22102912					X	
RNU6-1	RNA, U6 small nuclear 1	PMID: 24435880					X		
RNU6-15P	RNA, U6 small nuclear 15, pseudogene	None					X		
CLDN11	Claudin-11	PMID: 19622796							

Gene number: 30, 17, 12, 11, 6, 5  
 % Total: 37.50%, 21.25%, 15%, 13.75%, 7.50%, 6.25%