

Supplementary Table 4. Cluster-specific marker genes from scRNA-seq.

Glial cells-Astrocytes	Glial cells-Ependymal cells	MNs	Neural Progenitors
NPAS3	RMST	DPYD	SRP54
MIR99AHG	ADCY2	NREP	GOLGA4
CSMD1	TTC6	RBMS3	NEAT1
NFIA	NTN1	DLG2	HSPA9
RFX4	RFX4	SYT1	SEC31A
QKI	C8orf34	DSCAM	IARS1
GPM6A	MEIS2	ZNF804A	NUP58
PTPRZ1	GLIS3	ANK2	ARF4
ERBB4	BMPR1B	KCNQ5	UFM1
GRID2	SPON1	RIMBP2	NOP58
EPHA6	NPAS3	HAND2-AS1	RNMT
CADPS2	ENSG00000287704	ARHGAP26	COPB2
PPP2R2B	NFIA	HDAC9	VPS53
MAML2	FAT3	EML5	HM13
DTNA	DNAH7	SGIP1	ANKHD1
SLC1A3	MIR99AHG	FGF13	VIM
KANK1	HYDIN	CNTNAP2	BIRC6
SOX5	NAV2	CTNNA2	DNAJC25
DCLK2	ENSG00000257545	DPYSL3	TMF1
CDH20	SLIT2	STARD4-AS1	TALAM1

Neurons-Gabaergic Neurons	Oligodendrocytes	Undefined	VLMCs
PTPRN2	SORCS1	SOX5	COL3A1
MAP2	NRXN1	ADGRV1	COL1A1
PPFIA2	CDH19	TLE4	COL5A1
CTNND2	RBMS3	QKI	FN1
NALF1	PTEN	NPAS3	COL1A2
MARCHF1	NRXN3	SDK1	KCNQ1OT1
MIR325HG	CERT1	SOX2-OT	COL5A2
RIMS1	STARD13	PARD3B	FBN2
BASP1	SLC35F1	SHROOM3	CDH11
TMEM178B	CHL1	CASC15	SEC24D
GRIA2	TANC1	ENSG00000259692	FNDC3B
ERC2	SNTB1	FAT3	FLRT2
ANK3	FRMD5	CELF2	SPARC
RIMS2	PPFIBP1	MSI2	GPC6
PAK3	HYCC1	SHTN1	COL6A3
SNHG14	DOCK10	NCKAP5	TPT1
PTPRD	PTPRJ	PHLPP1	COL6A2
ROBO1	PRKD1	MIR99AHG	SEC31A
GABRB3	PTPRZ1	SEMA6A	TMEM263
DOCK3	ADGRG6	ZNF521	ROR2