

**A** Early Pseudotime Markers from Sloan et al. (2017)  
Cluster 1 (enriched at early pseudotimes)

Gene	Ratio of Ratios (RoR)				Label Swap (LS)			
	Q83X		N126I		Q83X		N126I	
	Ratio	p-value	Ratio	p-value	Ratio	p-value	Ratio	p-value
PLS3	-1.442	0.052	-0.767	0.096	0.029	0.654	-0.556	0.000
ANXA2	-0.301	0.000	-0.181	0.044	-0.515	0.000	-0.120	0.001
CTSC	0.356	0.000	0.451	0.000	0.000	0.548	0.333	0.000
EBF2			NA	X				
ACTG2	-0.391	0.000	0.014	0.574	-0.252	0.000	0.000	0.616
CNTNAP2	-1.285	0.000	0.475	0.008	-0.535	0.000	0.401	0.002
DCX	-0.598	0.000	-0.097	0.000	-0.286	0.000	-0.014	0.275
FBLN1	NA	X						
RRM2	NA	X	-0.884	0.003	-0.515	X	-0.494	0.037
INA	-0.675	0.000	-0.056	0.001	-0.474	0.000	-0.059	0.000
NCAPH	1.209	0.012	-0.354	0.208	0.566	0.109	-0.474	0.000
CRABP1	0.475	0.000	0.132	0.000	0.251	0.000	0.057	0.070
TIMELESS			NA	X				
NEFL	-1.322	0.000	-0.284	0.000	-0.434	0.000	-0.105	0.000
FAM105A			0.863	X			-0.396	0.028
GINS2	NA	X	NA	X	1.098	0.407	-0.494	0.230
UBE2C	NA	X			1.379	X	-1.000	0.009
PBK	1.510	X	-1.267	X	1.390	X	-0.889	X
GPR50	NA	X	-0.637	X	0.799	0.000	0.632	X
DNMT3B	NA	X			0.287	0.002		
ELAVL4	0.366	0.006	-0.593	0.000	-0.089	0.045	-0.713	0.000

**B** Middle Pseudotime Markers from Sloan et al. (2017)  
Cluster 2 (enriched at middle pseudotimes)

Gene	Ratio of Ratios (RoR)				Label Swap (LS)			
	Q83X		N126I		Q83X		N126I	
	Ratio	p-value	Ratio	p-value	Ratio	p-value	Ratio	p-value
SLC2A1	0.635	X	NA	X	-0.074	0.101	-0.556	0.001
RTN1	-0.691	0.000	-0.475	0.000	-0.269	0.000	-0.474	0.000
ATP1A2	-0.749	0.001	-0.332	0.000	-0.535	0.006	-0.152	0.000
C9orf126	0.068	X	0.903	X	-0.201	0.004	-0.136	0.074
DPH2	0.291	X	0.229	X	0.202	0.524	-0.152	0.284
CLU			-1.273	X	-0.252	X	-1.089	0.012
SLC1A3	1.258	0.341	-0.135	0.188	1.245	0.159	-0.234	0.000
ALDOC	-1.021	0.000	0.132	0.106	-0.535	0.000	-0.029	0.154
AKR1C3	-0.539	X	-0.103	0.410	-0.644	X	-0.201	0.028
NEK	Multiple	X	Multiple	X	Multiple	X	Multiple	X
PTN	0.282	0.462	0.663	0.335	0.604	0.203	1.239	0.137
NTRK2	-0.210	0.085	0.181	0.020	0.566	0.038	-0.014	0.409
SCUBE2	NA	X	-1.317	0.133	-0.120	0.294	-0.811	0.002
TNC	NA	X	0.397	0.006			0.345	0.000

**C** Late Pseudotime Markers from Sloan et al. (2017)  
Cluster 3 (enriched at late pseudotimes)

Gene	Ratio of Ratios (RoR)				Label Swap (LS)			
	Q83X		N126I		Q83X		N126I	
	Ratio	p-value	Ratio	p-value	Ratio	p-value	Ratio	p-value
PLTP			NA	X			-0.889	X
PPAP2B					-2.184	X		
CHL1	-0.590	0.050	-1.104	X	-0.152	0.025	-0.737	X
HTRA1	NA	X	-0.841	0.023	-0.152	X	-1.252	0.001
ENDOD1	0.303	0.218	0.089	0.693	-0.168	0.007	0.263	0.002
CSRP1	0.621	0.007	NA	X	0.485	0.022	-0.644	0.000
GPC5	NA	X			-1.184	X		
GATM	-0.702	0.000	-1.896	0.186	-0.252	0.063	-0.862	0.000
ACSS1			NA	X			-0.252	0.269
BCAN	-3.733	X	-0.453	0.103	0.163	0.787	-0.322	0.038
VSNL1	-1.184	0.000	-0.448	0.351	-1.059	0.000	0.138	0.804
GFRA1	NA	X	0.864	0.240	-0.184	0.310	0.566	0.124
DBC1	NA	X	NA	X	-0.786	X	-0.120	0.626
APOE					2.755	0.151		
MOXD1			NA	X	-0.269	0.005		
SLC1A2	-0.658	0.081	1.072	0.098	-0.322	0.000	0.070	0.868
TPP1	-0.332	0.032	-0.278	0.002	-0.168	0.029	-0.286	0.000
GSN	-0.376	0.002	-0.341	0.000	-0.396	0.000	-0.474	0.000

**D** Mature Astrocyte Markers from Sloan et al. (2017)  
Genes enriched in primary mature astrocytes / hCS astrocytes

Gene	Ratio of Ratios (RoR)				Label Swap (LS)				Ratio	Log(2)
	Q83X		N126I		Q83X		N126I			
	Ratio	p-value	Ratio	p-value	Ratio	p-value	Ratio	p-value		
S100A13	-0.106	0.806			-0.120	0.286	-0.029	0.378	0.25	-2.000
ALDH1A1					0.926	X			0.5	-1.000
CSRP1	0.621	0.007			0.485	0.022	-0.644	0.000	0.8	-0.322
GSTM5			-2.822	0.001			-2.322	0.010	0.9	-0.152
APOC1					-0.415	0.243			1	0.000
CPNE6			-0.648	X			-0.578	0.000	1.1	0.138
UCLH5	-0.354	0.273	0.243	0.468	-0.184	0.047	-0.396	0.107	1.2	0.263
ME1	NA	X	0.908	0.000	-0.599	0.033	0.465	0.000	2	1.000
SLG1A2	-0.658	0.081	1.072	0.098	-0.322	0.000	0.070	0.868	4	2.000