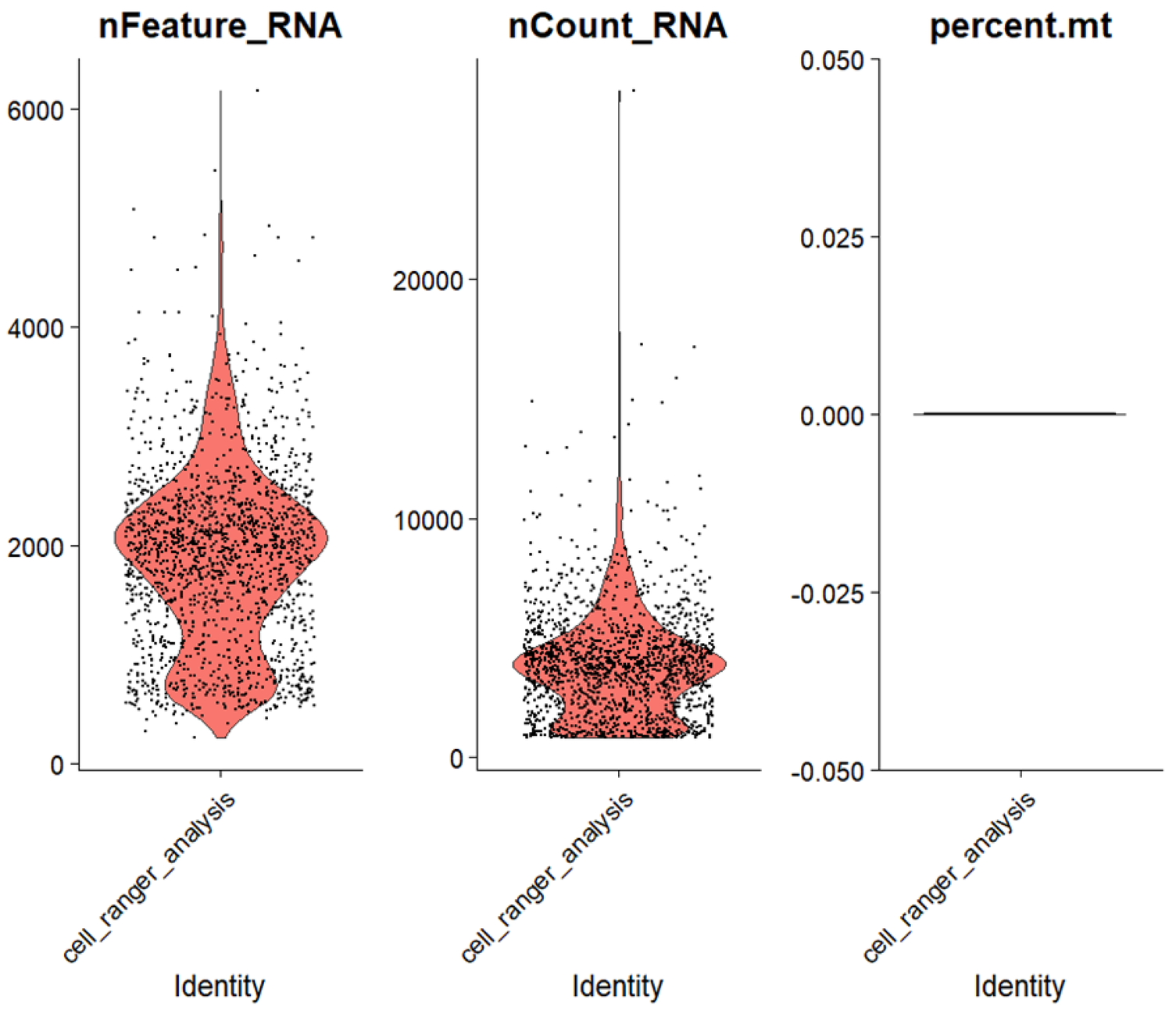
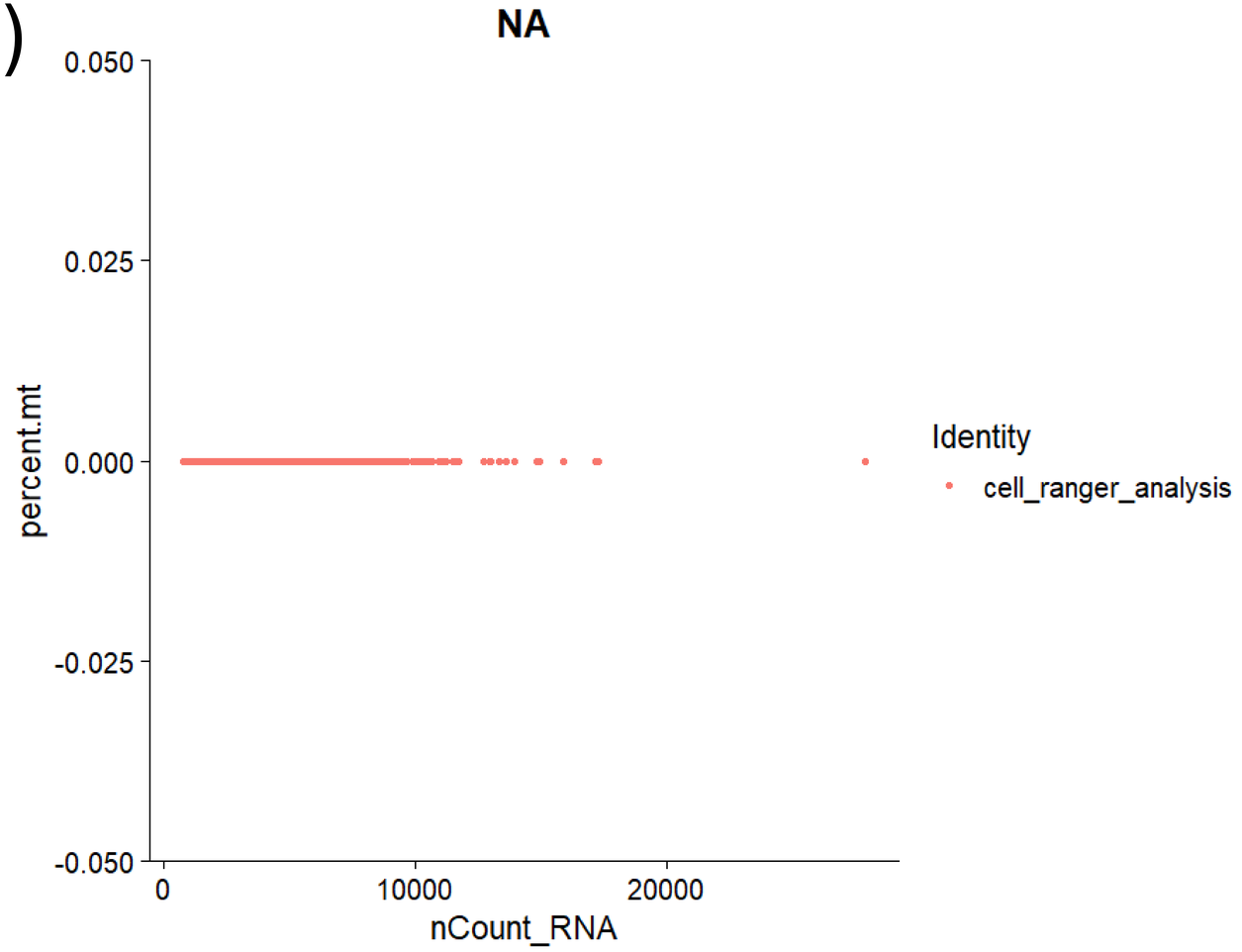
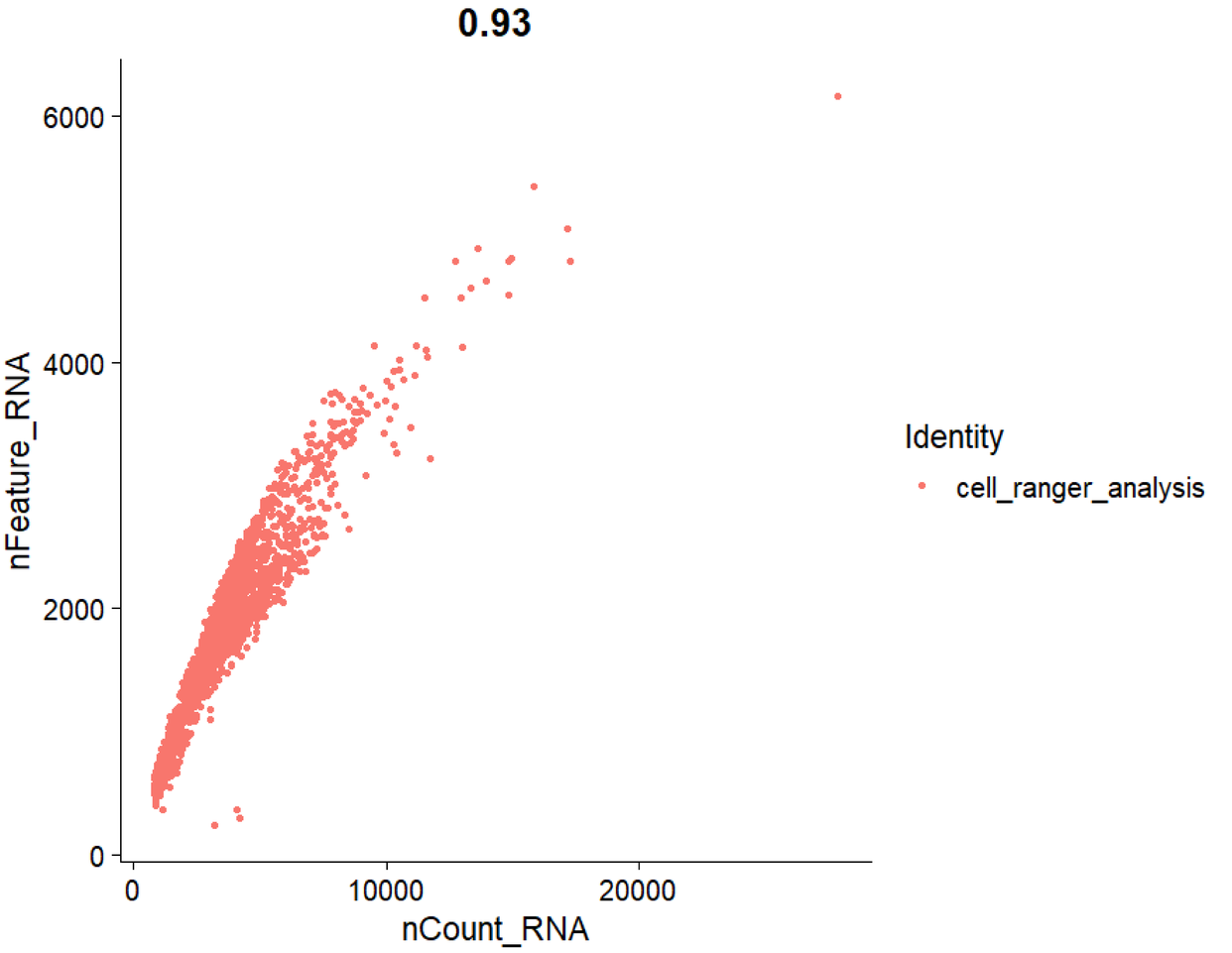
A)

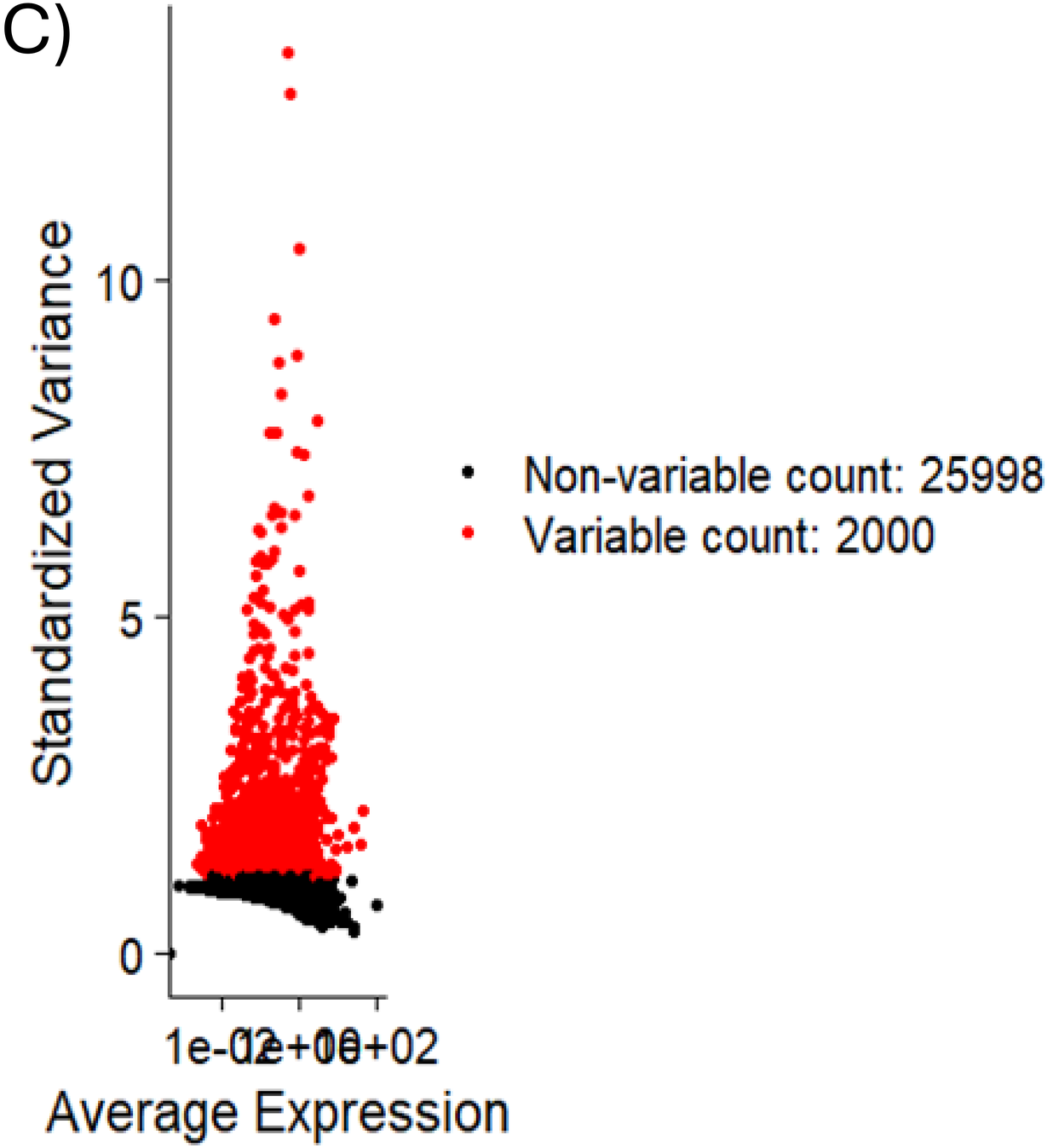

nFeature_RNA
nCount_RNA
percent.mt
6000
4000
2000
0
20000
10000
0
0.050
0.025
0.000
-0.025
-0.050
cell_ranger_analysis
cell_ranger_analysis
cell_ranger_analysis
Identity
Identity
Identity

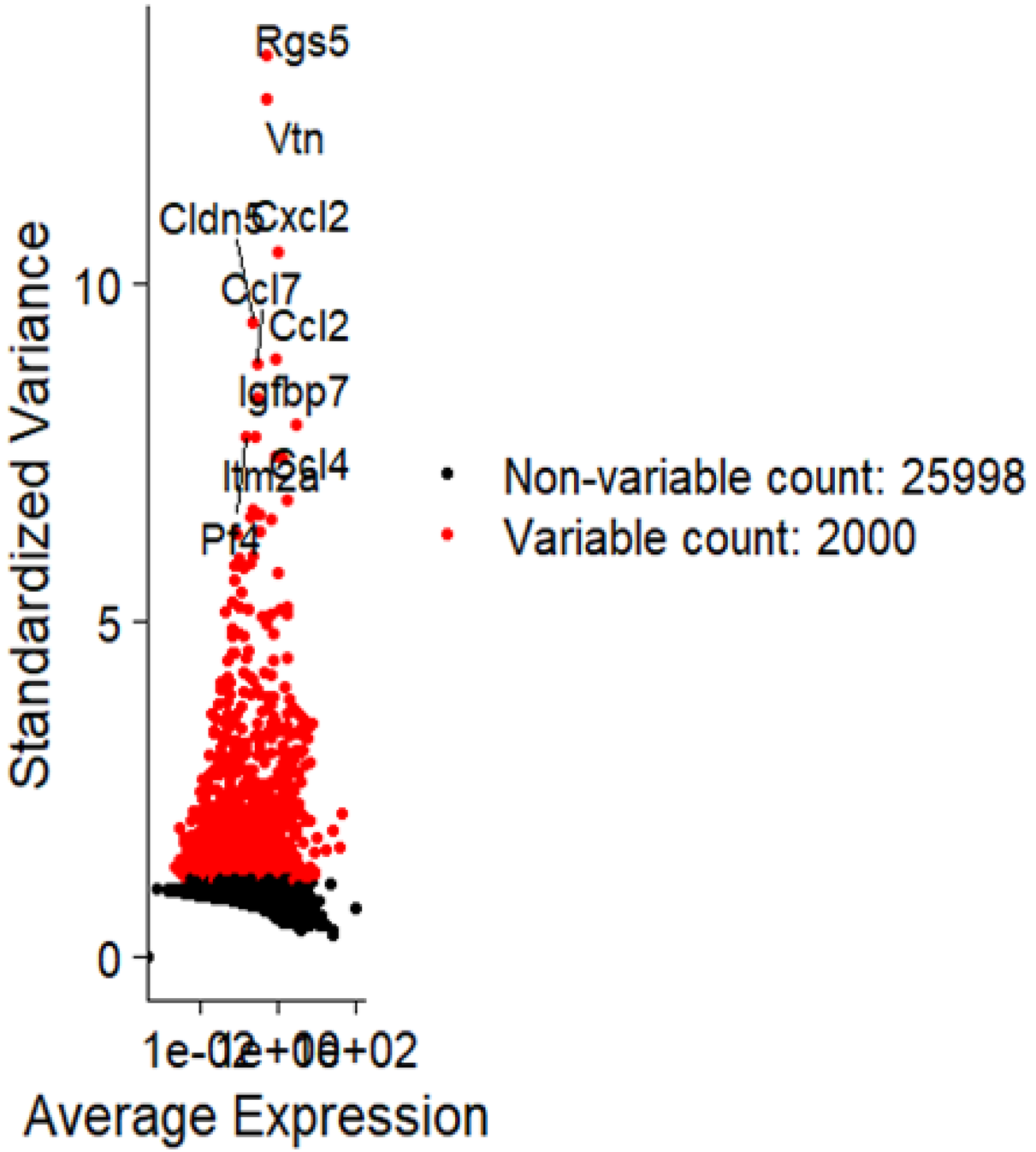
B)


NA
0.050
0.025
0.000
-0.025
-0.050
percent.mt
0
10000
20000
nCount_RNA
Identity
cell_ranger_analysis

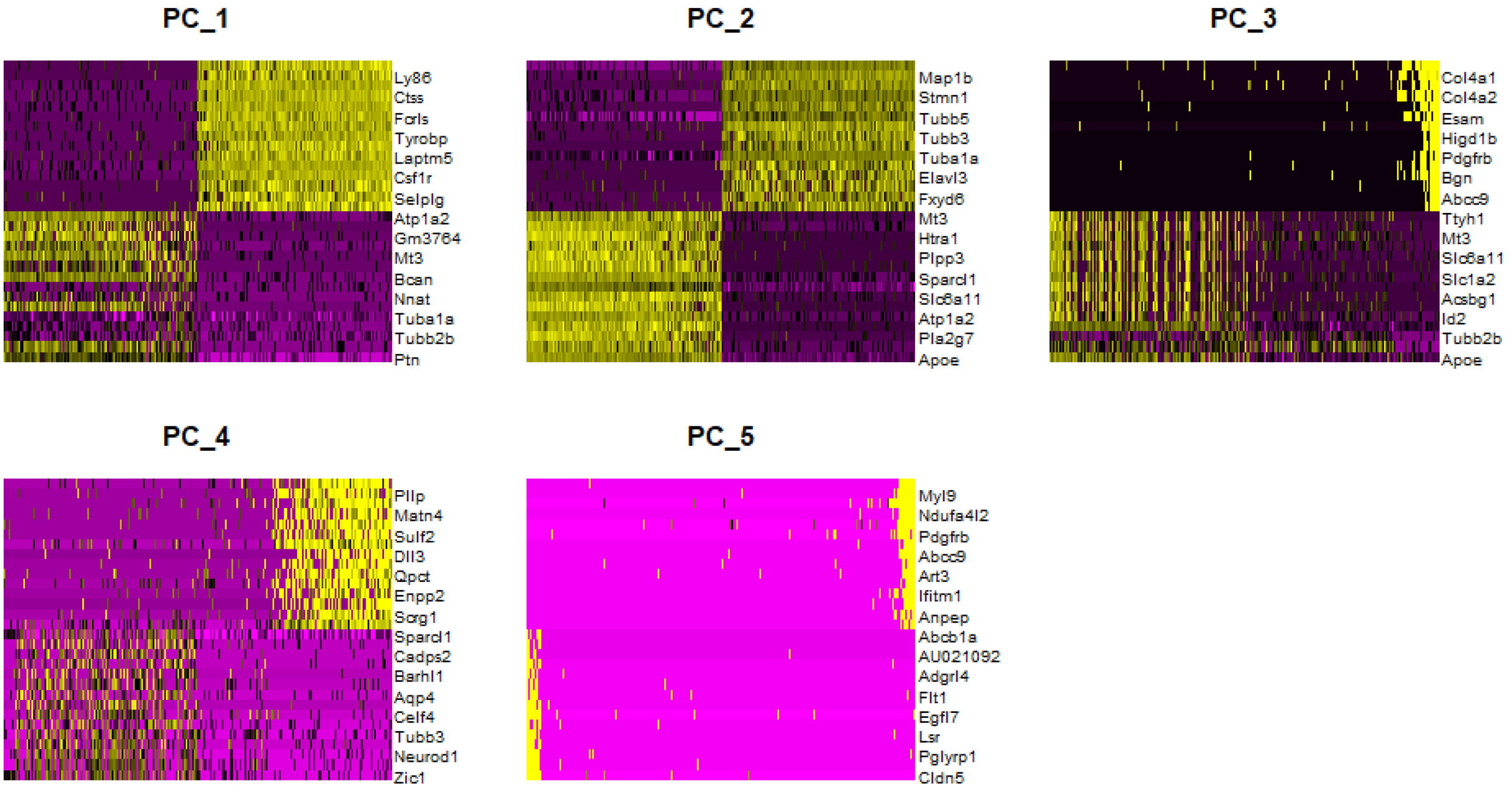

0.93
6000
4000
2000
0
nFeature_RNA
0
10000
20000
nCount_RNA
Identity
cell_ranger_analysis

C)

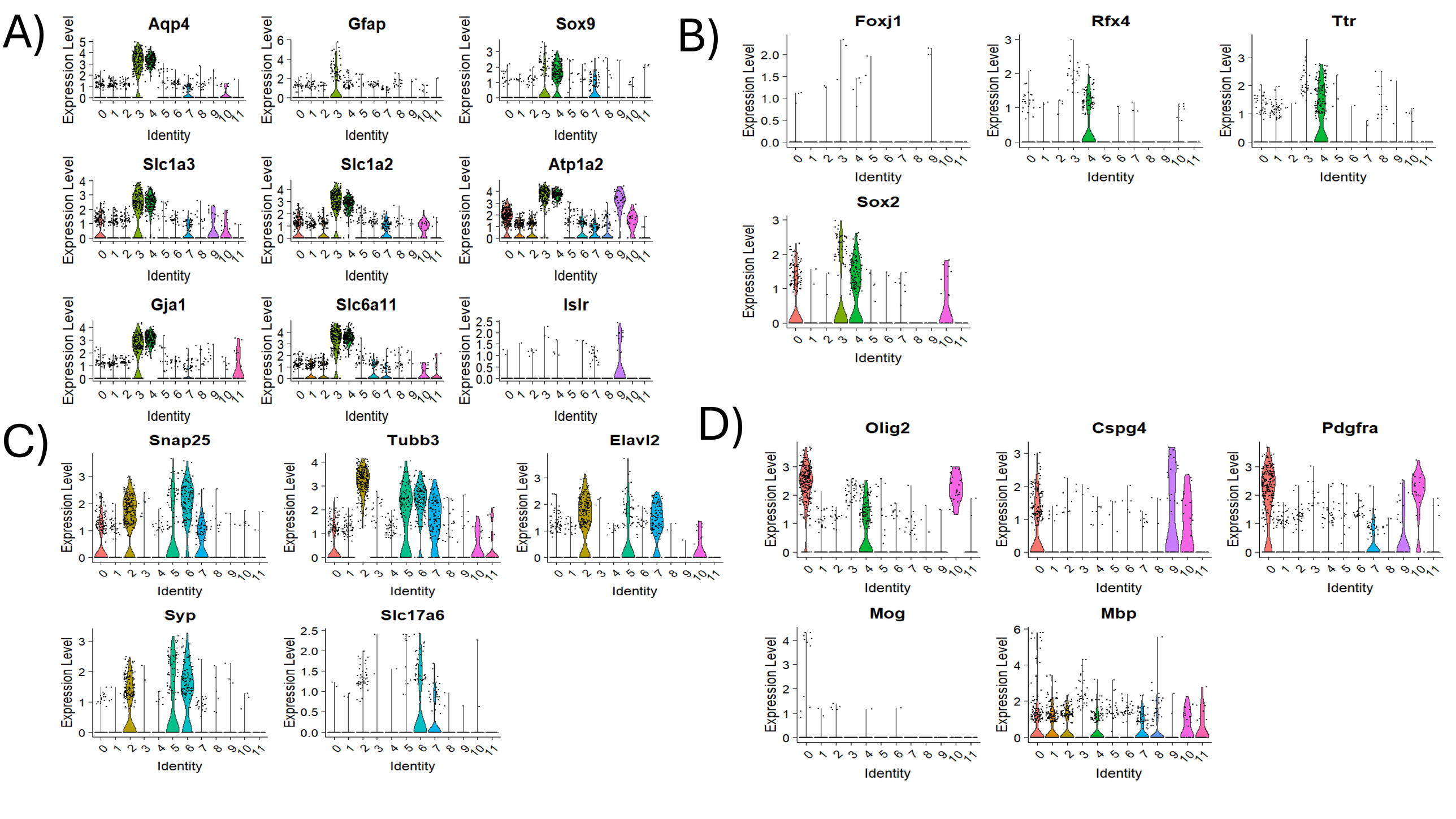

Standardized Variance
10
5
0
1e-02
1e+00
1e+02
Average Expression
Non-variable count: 25998
Variable count: 2000

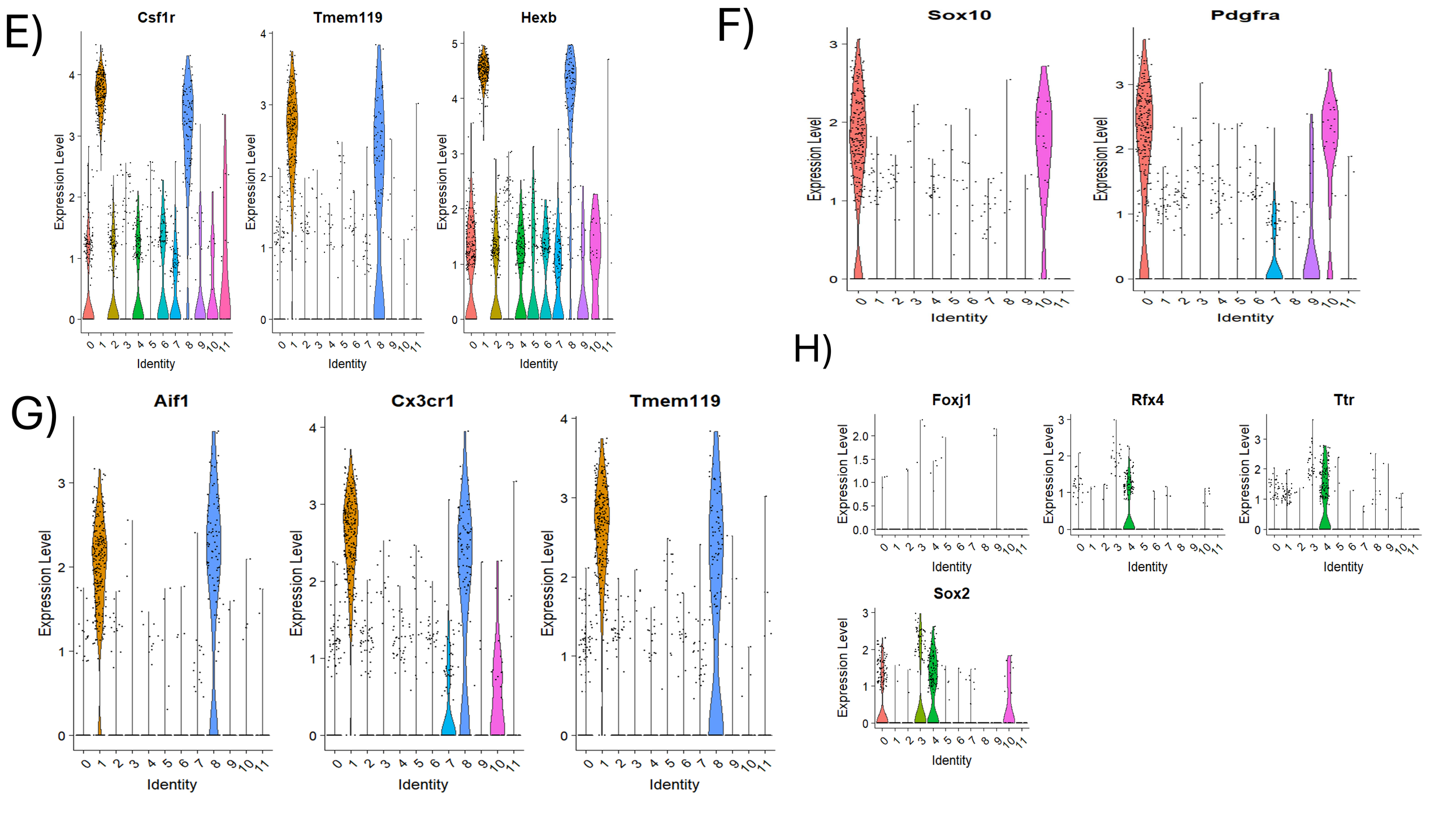

Rgs5
Vtn
Cldn5
Cxcl2
Ccl7
Ccl2
Igfbp7
Itm2a
Pf4
Standardized Variance
10
5
0
1e-02
1e+00
1e+02
Average Expression
Non-variable count: 25998
Variable count: 2000

E)

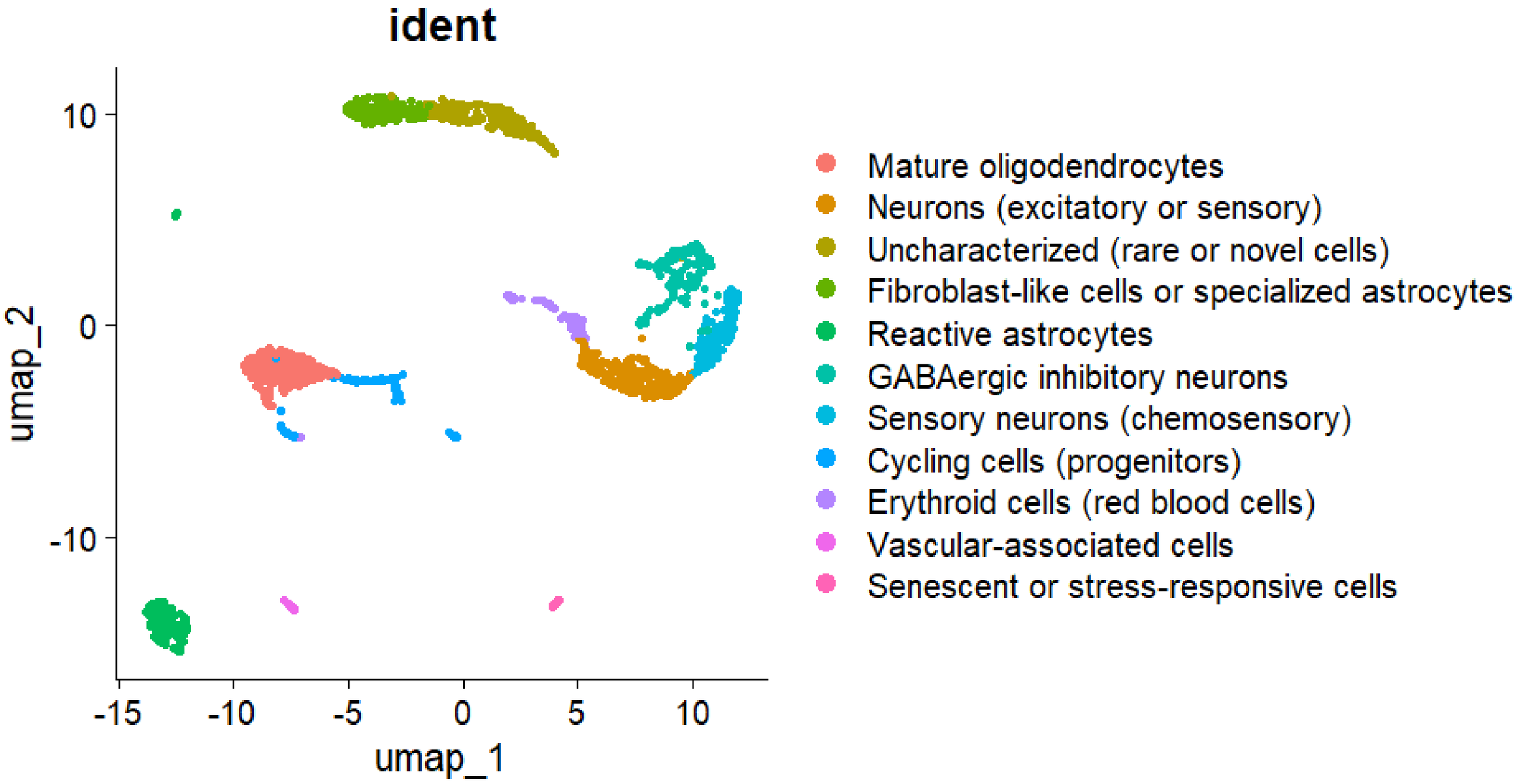

PC_1
Ly86
Ctss
Fcrls
Tyrobp
Laptm5
Csf1r
Selplg
Atp1a2
Gm3764
Mt3
Bcan
Nnat
Tuba1a
Tubb2b
Ptn
PC_2
Map1b
Stmn1
Tubb5
Tubb3
Tuba1a
Elavl3
Fxyd6
Mt3
Htra1
Plpp3
Sparcl1
Slc8a11
Atp1a2
Pla2g7
Apoe
PC_3
Col4a1
Col4a2
Esam
Higd1b
Pdgfrb
Bgn
Abcc9
Ttyh1
Mt3
Slc8a11
Slc1a2
Acsbg1
Id2
Tubb2b
Apoe
PC_4
Pllp
Matn4
Sulf2
Dll3
Qpct
Enpp2
Scrg1
Sparcl1
Cadps2
Barhl1
Aqp4
Celf4
Tubb3
Neurod1
Zic1
PC_5
Myl9
Ndufa4l2
Pdgfrb
Abcc9
Art3
Ifitm1
Anpep
Abcb1a
AU021092
Adgrl4
Flt1
Egfl7
Lsr
Pglyrp1
Cldn5

F)

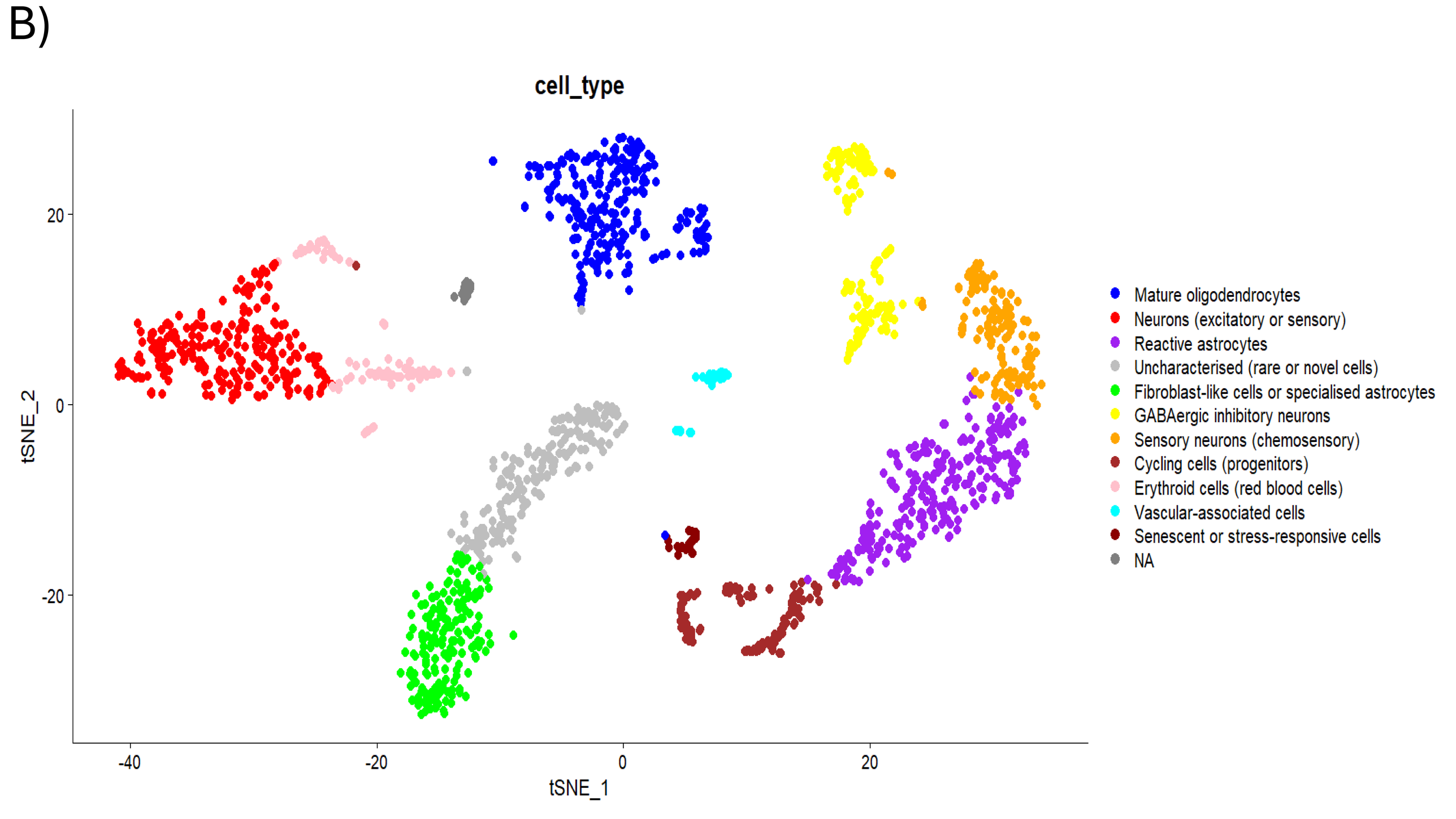

A)
Aqp4
Gfap
Sox9
Slc1a3
Slc1a2
Atp1a2
Gja1
Slc6a11
Islr
B)
Foxj1
Rfx4
Ttr
Sox2
C)
Snap25
Tubb3
Elavl2
Syp
Slc17a6
D)
Olig2
Cspg4
Pdgfra
Mog
Mbp
Expression Level
Identity

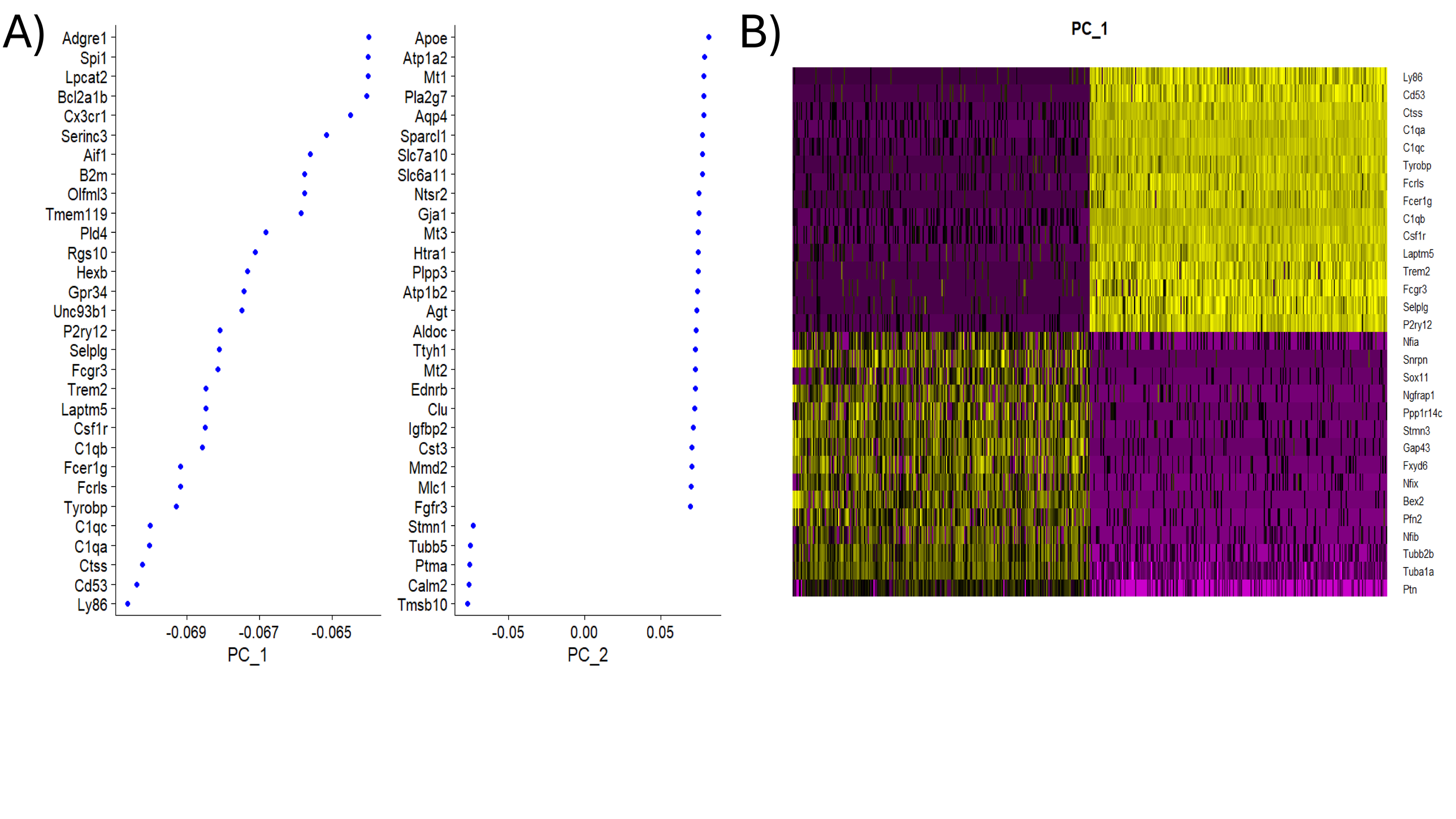

E)
Csf1r
Tmem119
Hexb
Expression Level
Identity
F)
Sox10
Pdgfra
G)
Aif1
Cx3cr1
Tmem119
H)
Foxj1
Rfx4
Ttr
Sox2

A)

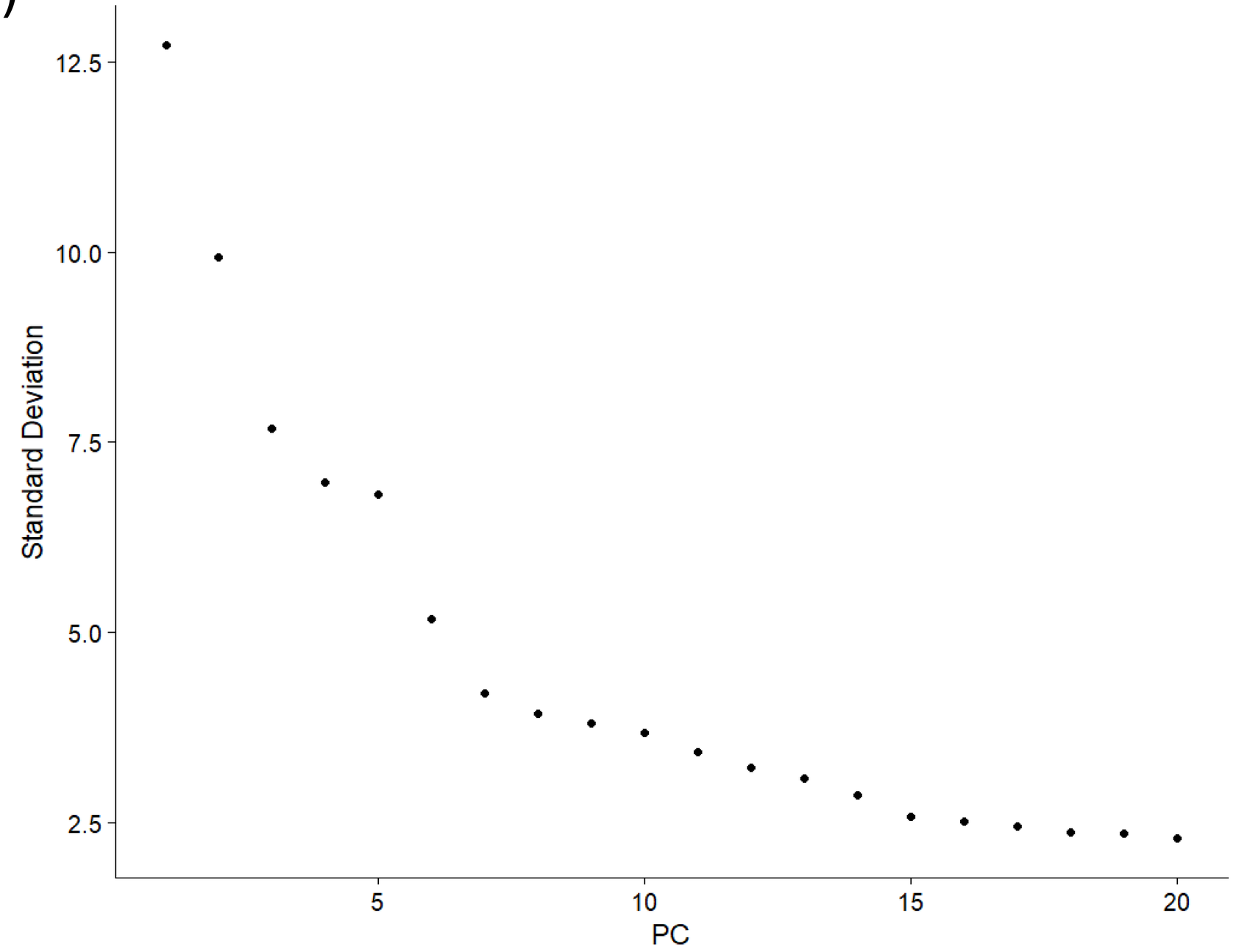

ident
10
0
-10
umap_2
-15
-10
-5
0
5
10
umap_1
Mature oligodendrocytes
Neurons (excitatory or sensory)
Uncharacterized (rare or novel cells)
Fibroblast-like cells or specialized astrocytes
Reactive astrocytes
GABAergic inhibitory neurons
Sensory neurons (chemosensory)
Cycling cells (progenitors)
Erythroid cells (red blood cells)
Vascular-associated cells
Senescent or stress-responsive cells

B)

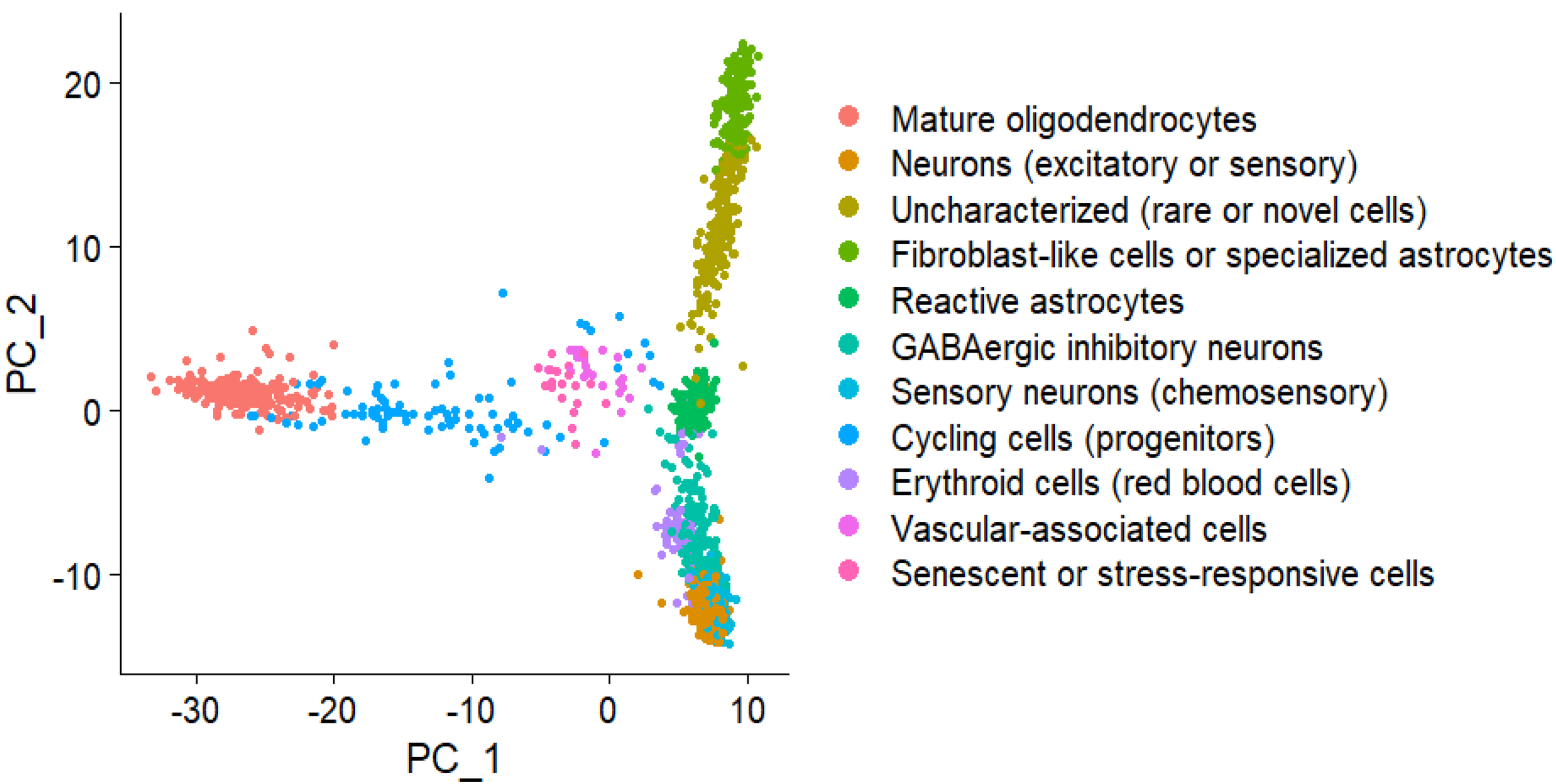

cell_type
tSNE_2
tSNE_1
20
0
-20
-40
-20
0
20
Mature oligodendrocytes
Neurons (excitatory or sensory)
Reactive astrocytes
Uncharacterised (rare or novel cells)
Fibroblast-like cells or specialised astrocytes
GABAergic inhibitory neurons
Sensory neurons (chemosensory)
Cycling cells (progenitors)
Erythroid cells (red blood cells)
Vascular-associated cells
Senescent or stress-responsive cells
NA


A)
Adgre1
Spi1
Lpcat2
Bcl2a1b
Cx3cr1
Serinc3
Aif1
B2m
Olfml3
Tmem119
Pld4
Rgs10
Hexb
Gpr34
Unc93b1
P2ry12
Selplg
Fcgr3
Trem2
Laptm5
Csf1r
C1qb
Fcer1g
Fcrls
Tyrobp
C1qc
C1qa
Ctss
Cd53
Ly86
-0.069
-0.067
-0.065
PC_1
Apoe
Atp1a2
Mt1
Pla2g7
Aqp4
Sparcl1
Slc7a10
Slc6a11
Ntsr2
Gja1
Mt3
Htra1
Plpp3
Atp1b2
Agt
Aldoc
Ttyh1
Mt2
Ednrb
Clu
Igfbp2
Cst3
Mmd2
Mlc1
Fgfr3
Stmn1
Tubb5
Ptma
Calm2
Tmsb10
-0.05
0.00
0.05
PC_2
B)
PC_1
Ly86
Cd53
Ctss
C1qa
C1qc
Tyrobp
Fcrls
Fcer1g
C1qb
Csf1r
Laptm5
Trem2
Fcgr3
Selplg
P2ry12
Nfia
Snrpn
Sox11
Ngfrap1
Ppp1r14c
Stmn3
Gap43
Fxyd6
Nfix
Bex2
Pfn2
Nfib
Tubb2b
Tuba1a
Ptn

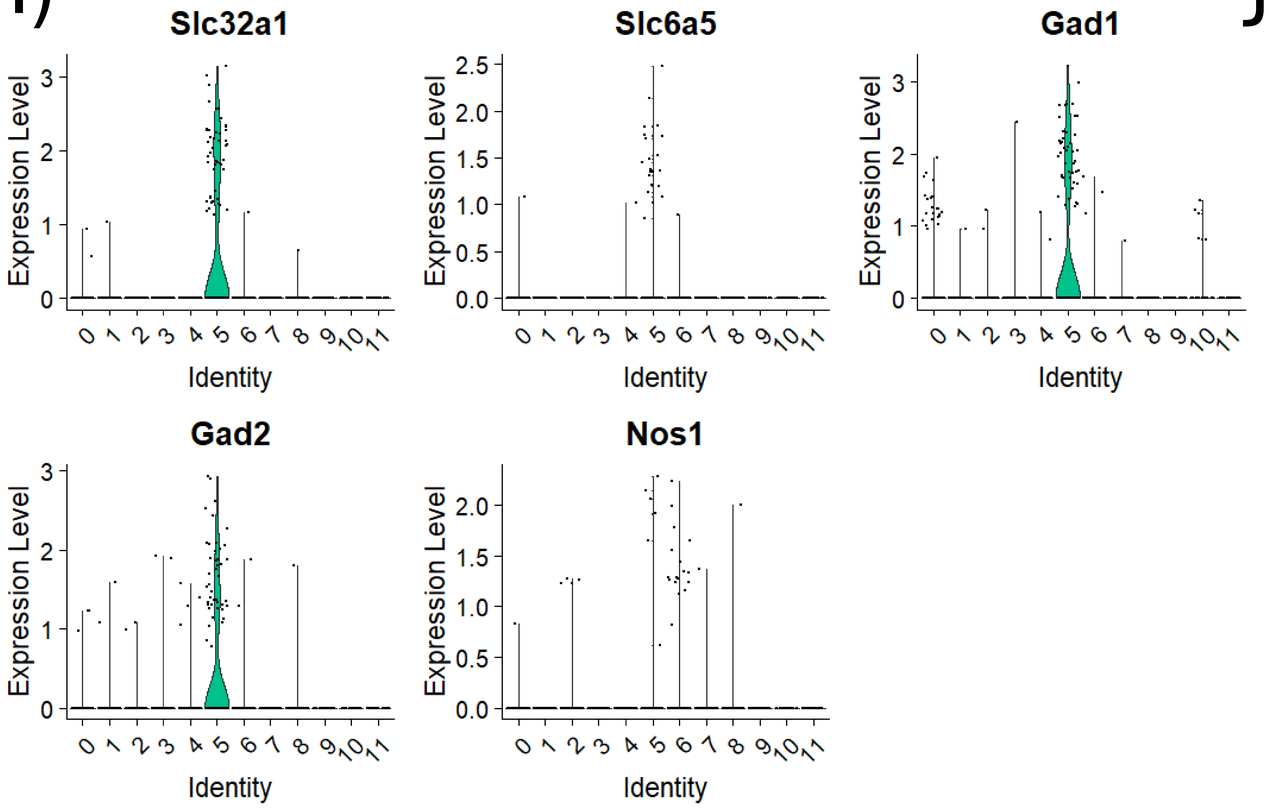
C)



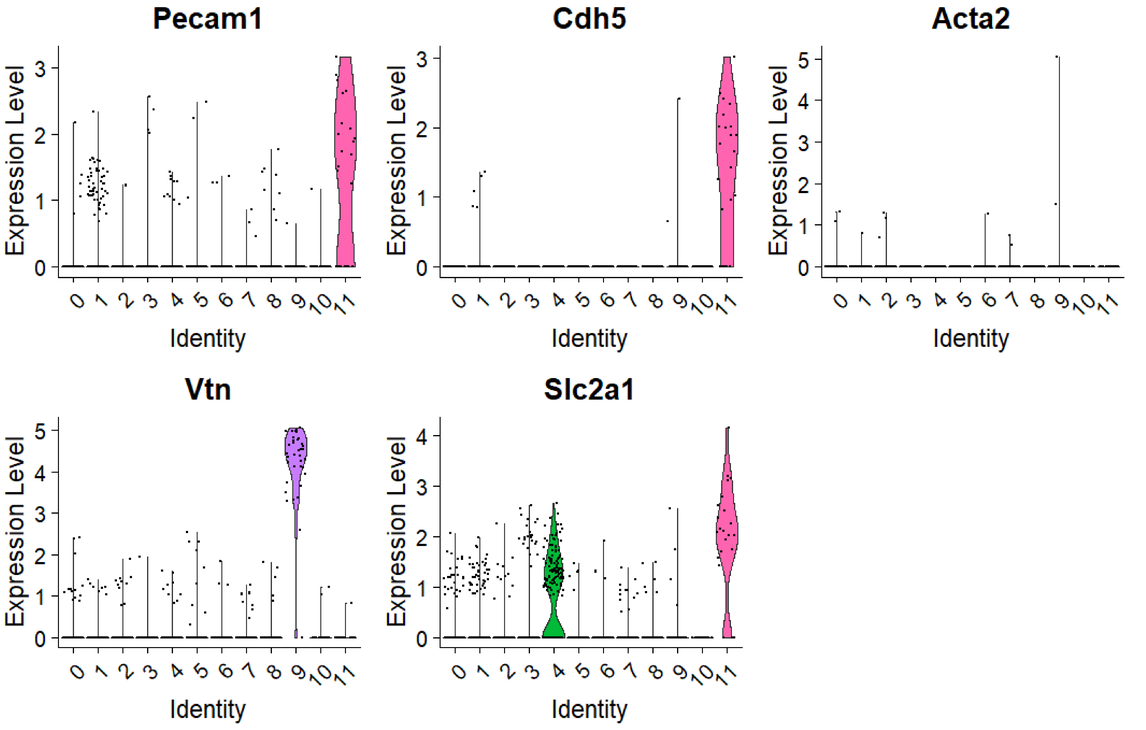
D)

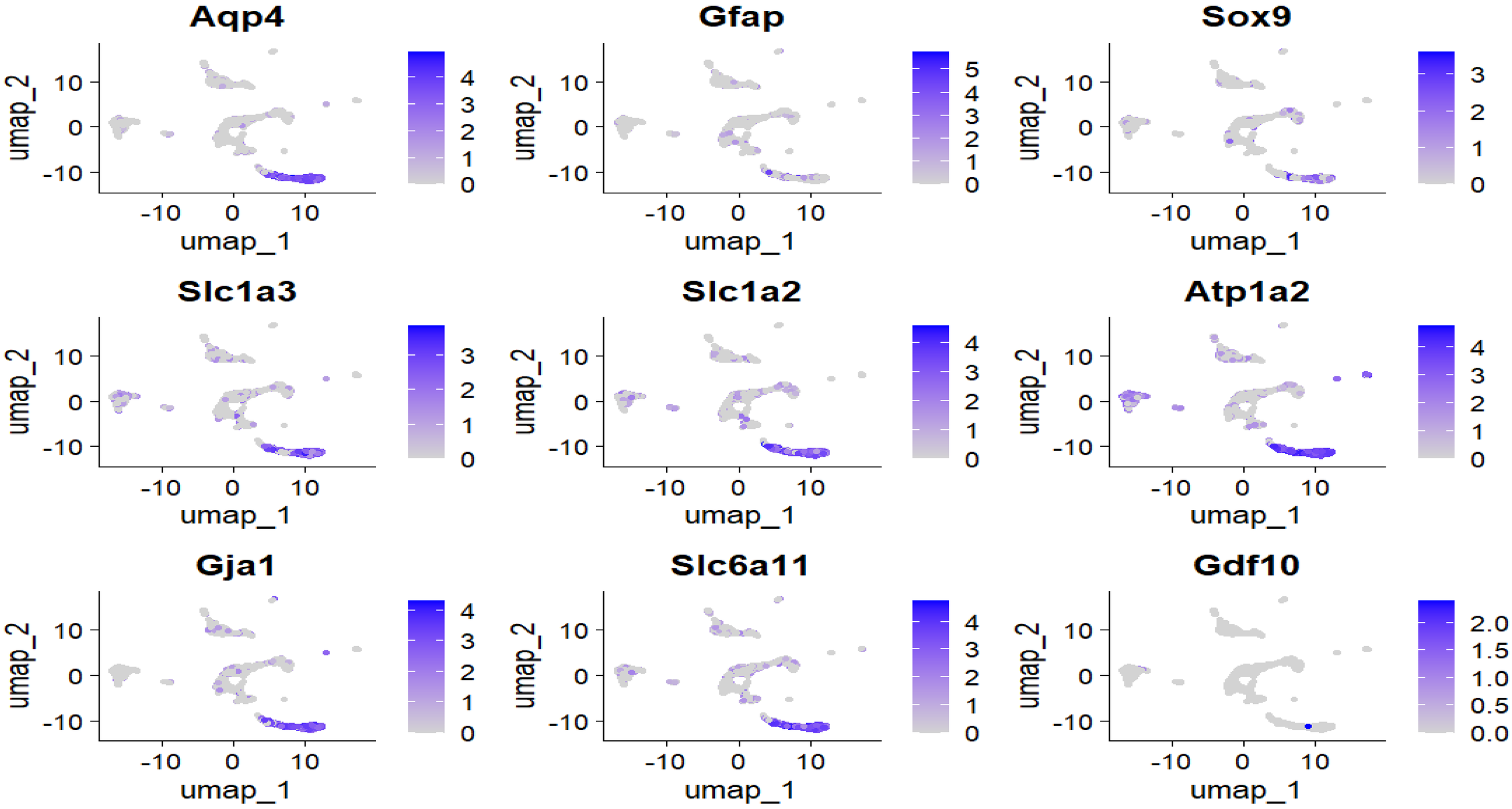

PCA Plot: Visualizing Principal Components
PC_2
PC_1
20
10
0
-10
-30
-20
-10
0
10
Mature oligodendrocytes
Neurons (excitatory or sensory)
Uncharacterized (rare or novel cells)
Fibroblast-like cells or specialized astrocytes
Reactive astrocytes
GABAergic inhibitory neurons
Sensory neurons (chemosensory)
Cycling cells (progenitors)
Erythroid cells (red blood cells)
Vascular-associated cells
Senescent or stress-responsive cells

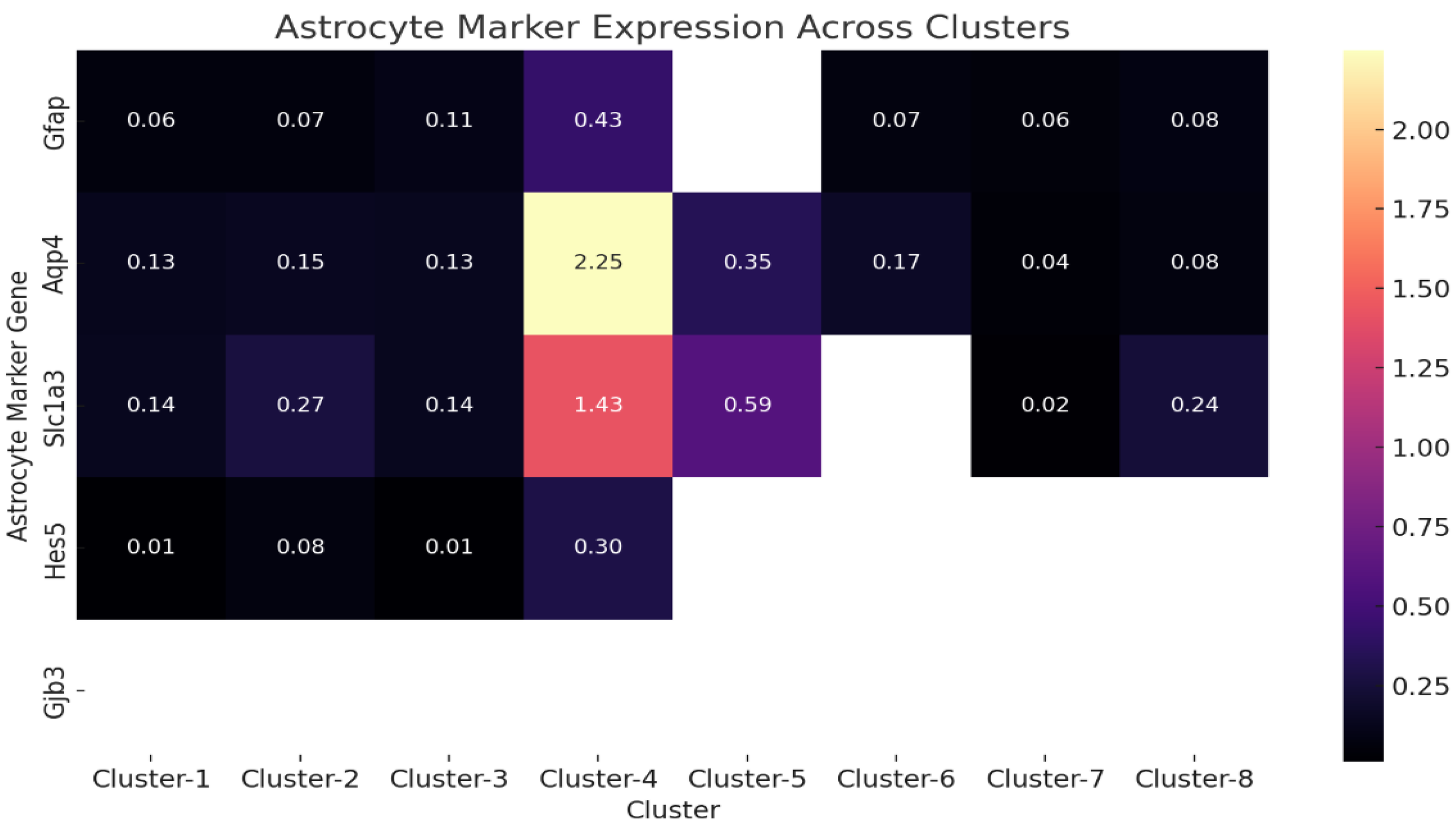
I)

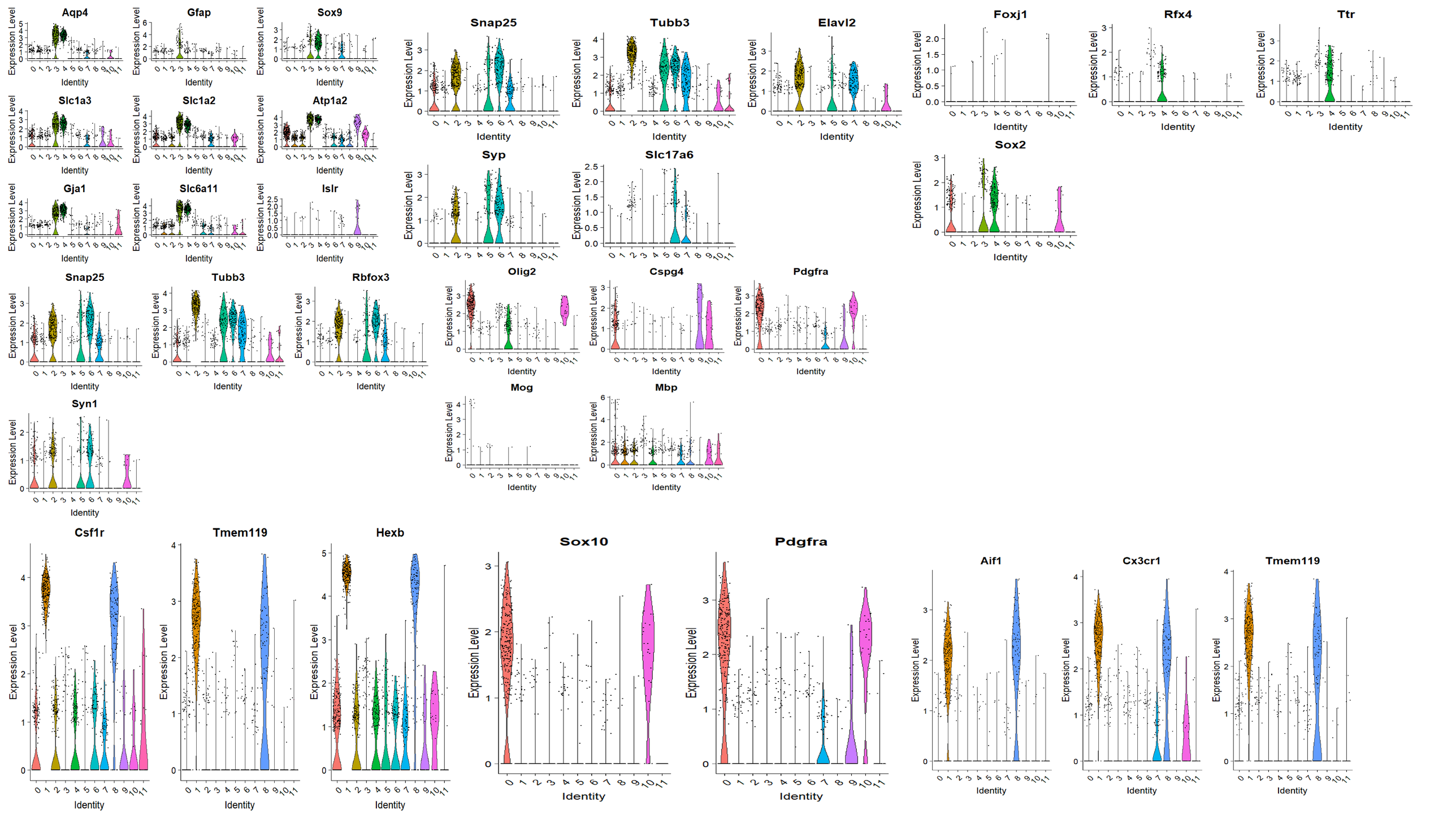

Slc32a1
Slc6a5
Gad1
Gad2
Nos1
Expression Level
Identity

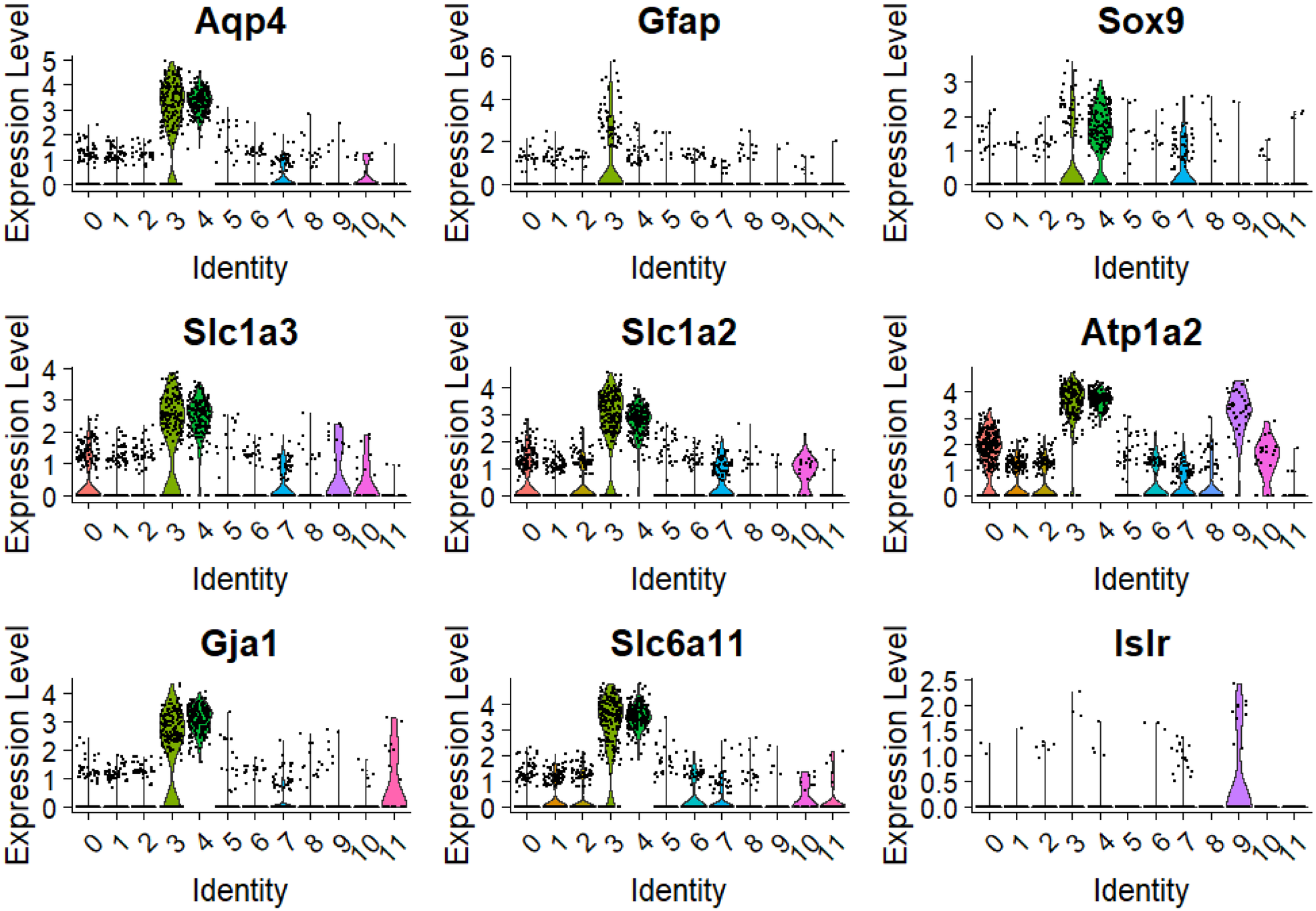
J)

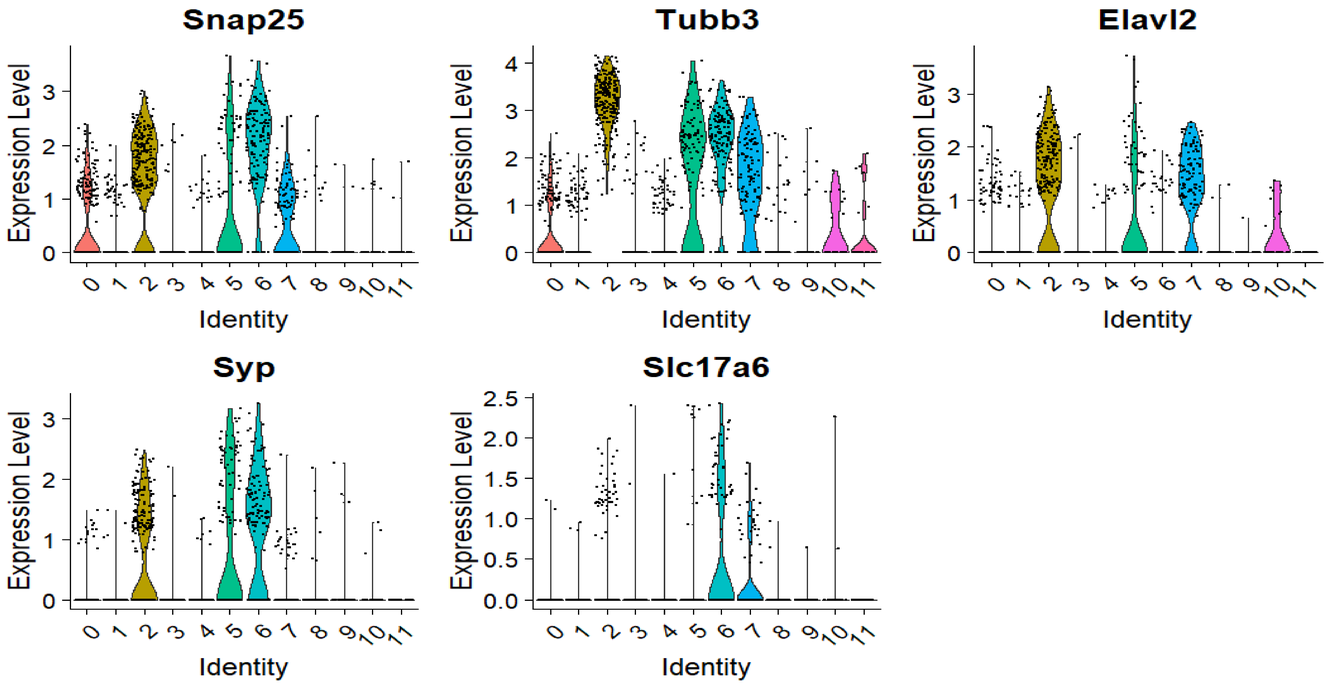

Pecam1
Cdh5
Acta2
Vtn
Slc2a1
Expression Level
Identity

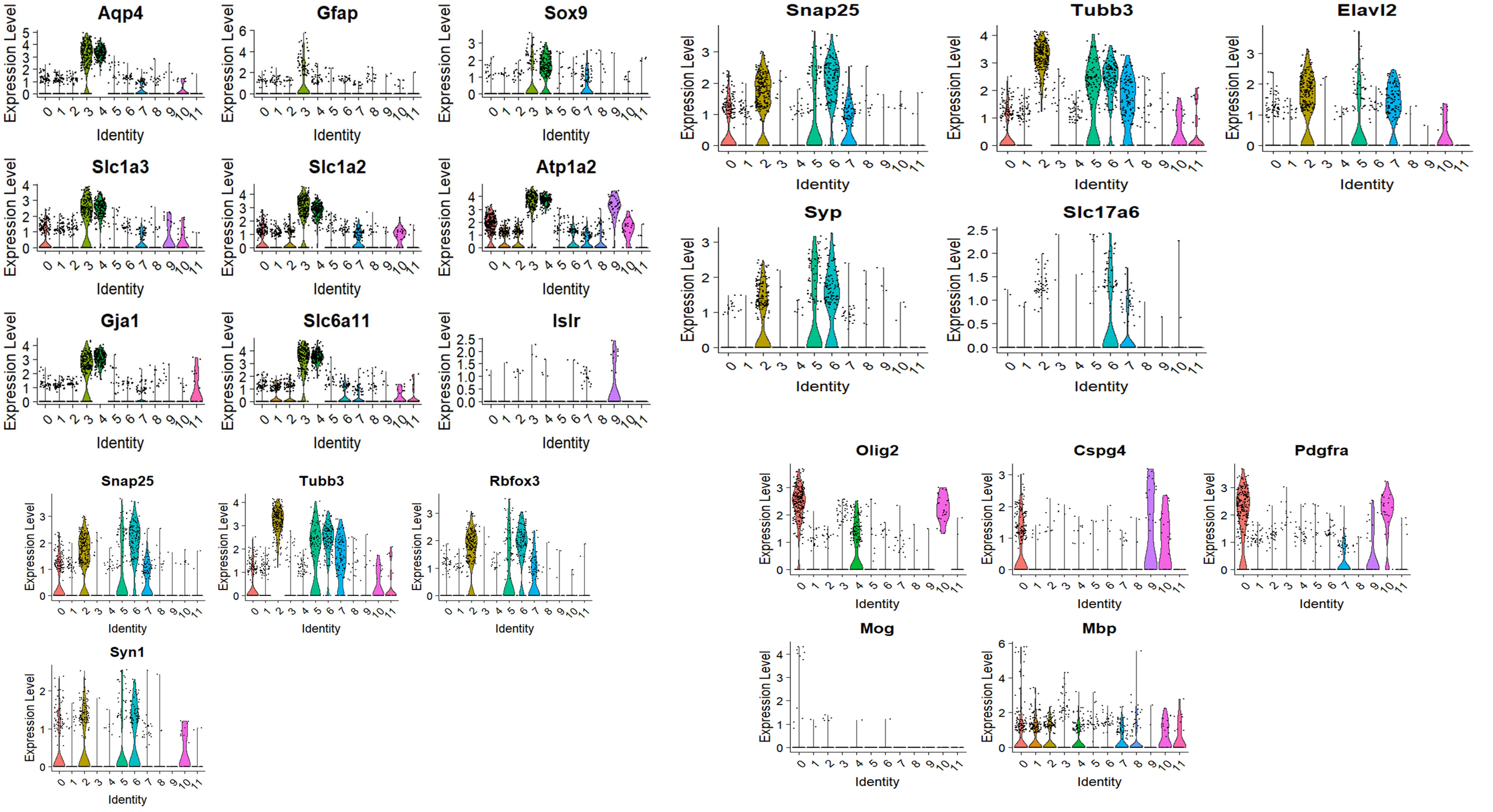

Aqp4
Gfap
Sox9
Slc1a3
Slc1a2
Atp1a2
Gja1
Slc6a11
Gdf10
umap_1
umap_2
-10
0
10
0
1
2
3
4
5
0.0
0.5
1.0
1.5
2.0


Astrocyte Marker Expression Across Clusters
Astrocyte Marker Gene
Gfap
Aqp4
Slc1a3
Hes5
Gjb3
0.06
0.07
0.11
0.43
0.07
0.06
0.08
0.13
0.15
0.13
2.25
0.35
0.17
0.04
0.08
0.14
0.27
0.14
1.43
0.59
0.02
0.24
0.01
0.08
0.01
0.30
Cluster-1
Cluster-2
Cluster-3
Cluster-4
Cluster-5
Cluster-6
Cluster-7
Cluster-8
Cluster
2.00
1.75
1.50
1.25
1.00
0.75
0.50
0.25


Aqp4
Gfap
Sox9
Slc1a3
Slc1a2
Atp1a2
Gja1
Slc6a11
Islr
Snap25
Tubb3
Elavl2
Foxj1
Rfx4
Ttr
Syp
Slc17a6
Sox2
Snap25
Tubb3
Rbfox3
Olig2
Cspg4
Pdgfra
Syn1
Mog
Mbp
Csf1r
Tmem119
Hexb
Sox10
Pdgfra
Aif1
Cx3cr1
Tmem119
Expression Level
Identity


Aqp4
Gfap
Sox9
Slc1a3
Slc1a2
Atp1a2
Gja1
Slc6a11
Islr
Expression Level
Identity
0 1 2 3 4 5 6 7 8 9 10 11


Snap25
Tubb3
Elavl2
Syp
Slc17a6
Expression Level
Identity
0 1 2 3 4 5 6 7 8 9 10 11


Aqp4
Gfap
Sox9
Slc1a3
Slc1a2
Atp1a2
Gja1
Slc6a11
Islr
Snap25
Tubb3
Rbfox3
Syn1
Snap25
Tubb3
Elavl2
Syp
Slc17a6
Olig2
Cspg4
Pdgfra
Mog
Mbp
Expression Level
Identity