

3M_Org – Marker Validation Summary

MARKER GENE VALIDATION SUMMARY

Timepoint: 3M_Org

Dataset Information:

Total Cells: 4648

Number of Clusters: 11

Optimal Resolution: 11 clusters

Validation Statistics:

Marker Sets Tested: 14

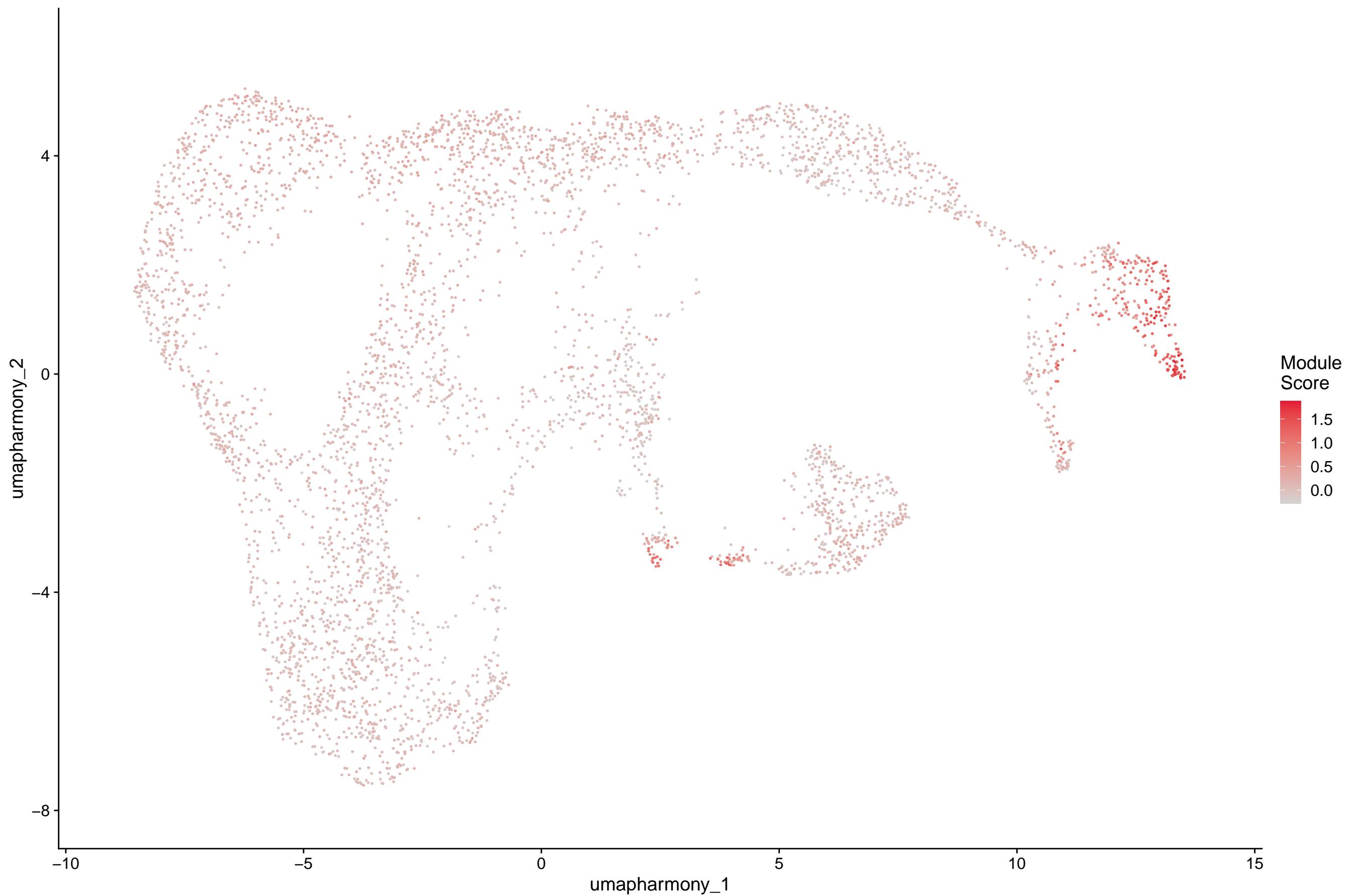
Total Genes Tested: 83

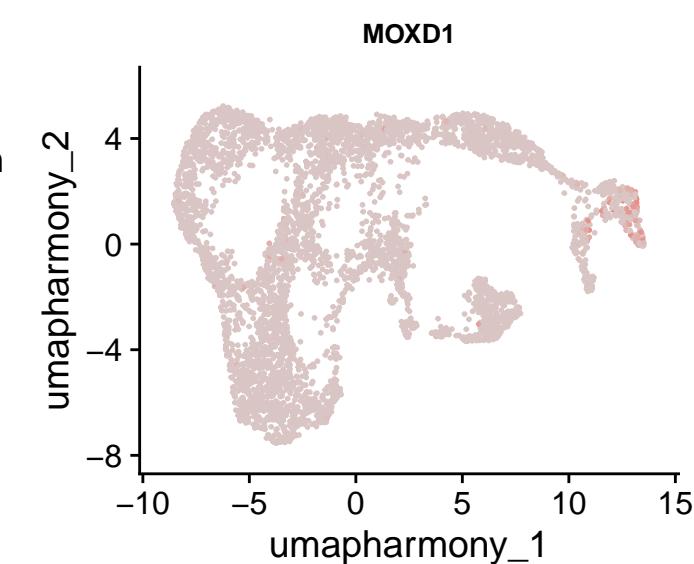
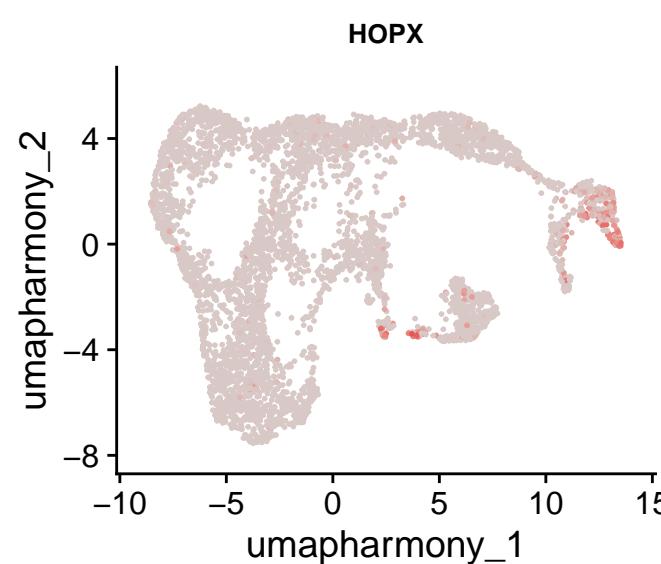
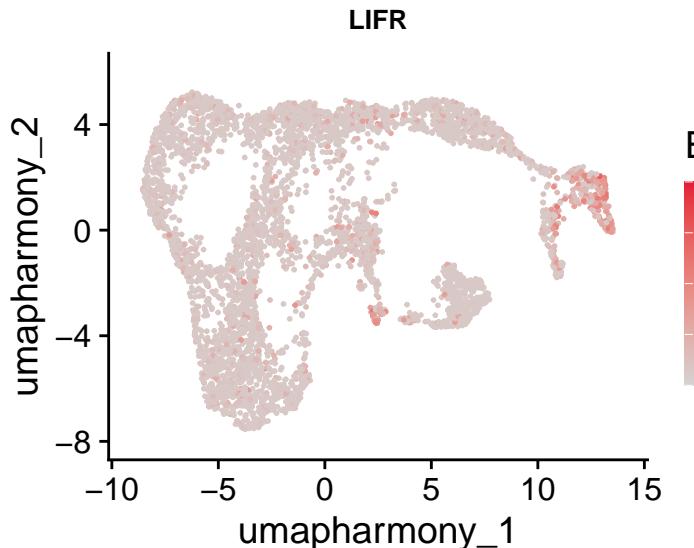
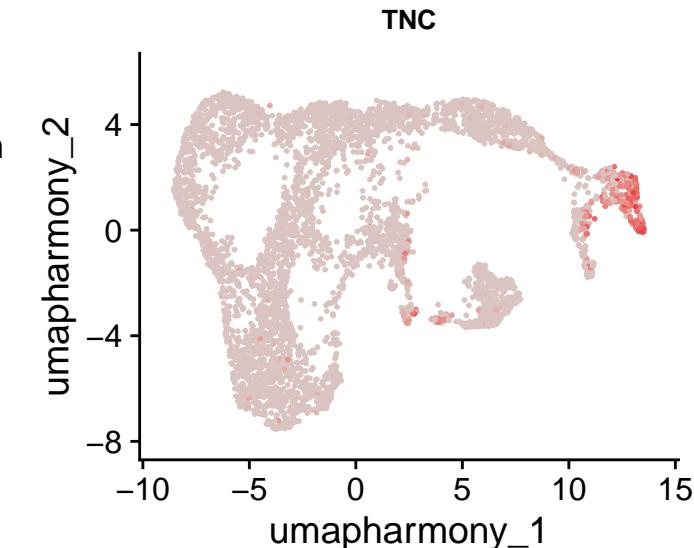
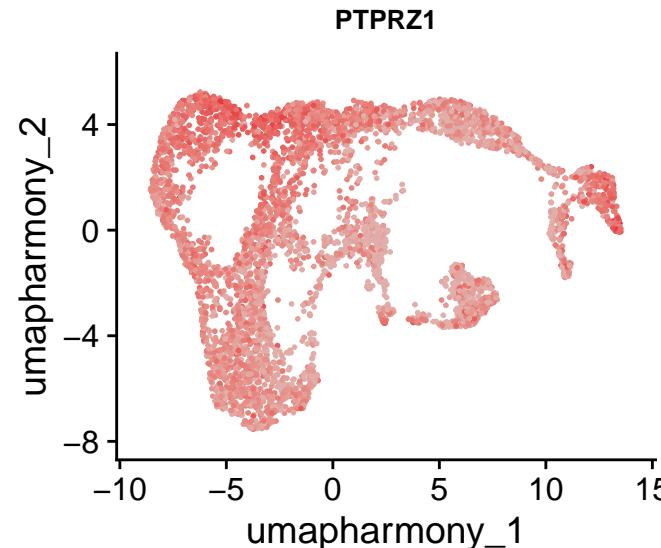
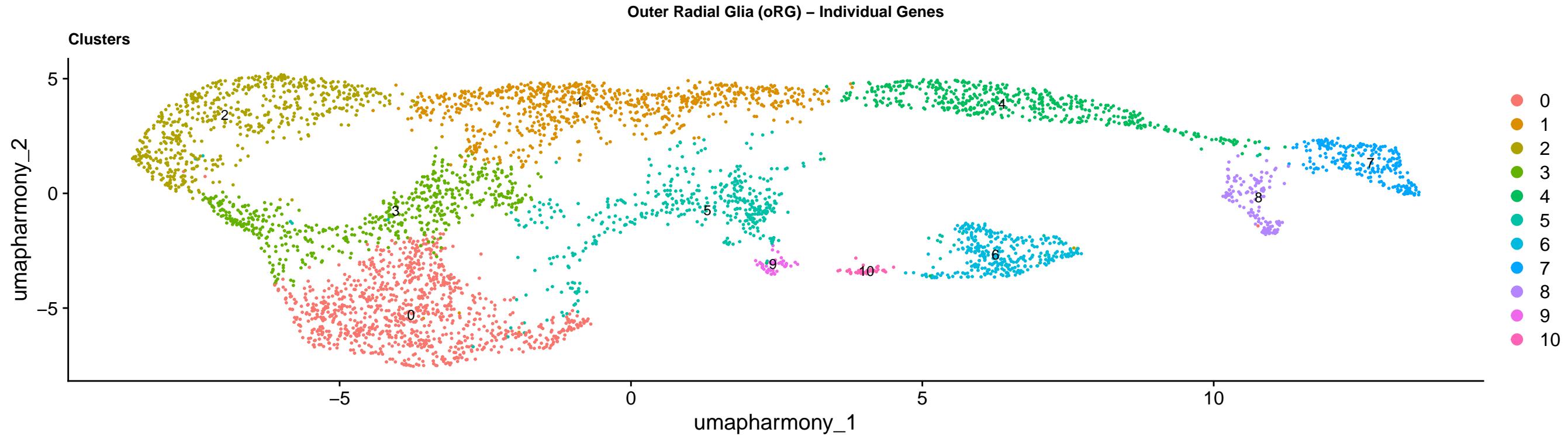
Genes Found: 72 (86.7%)

Genes Missing: 11

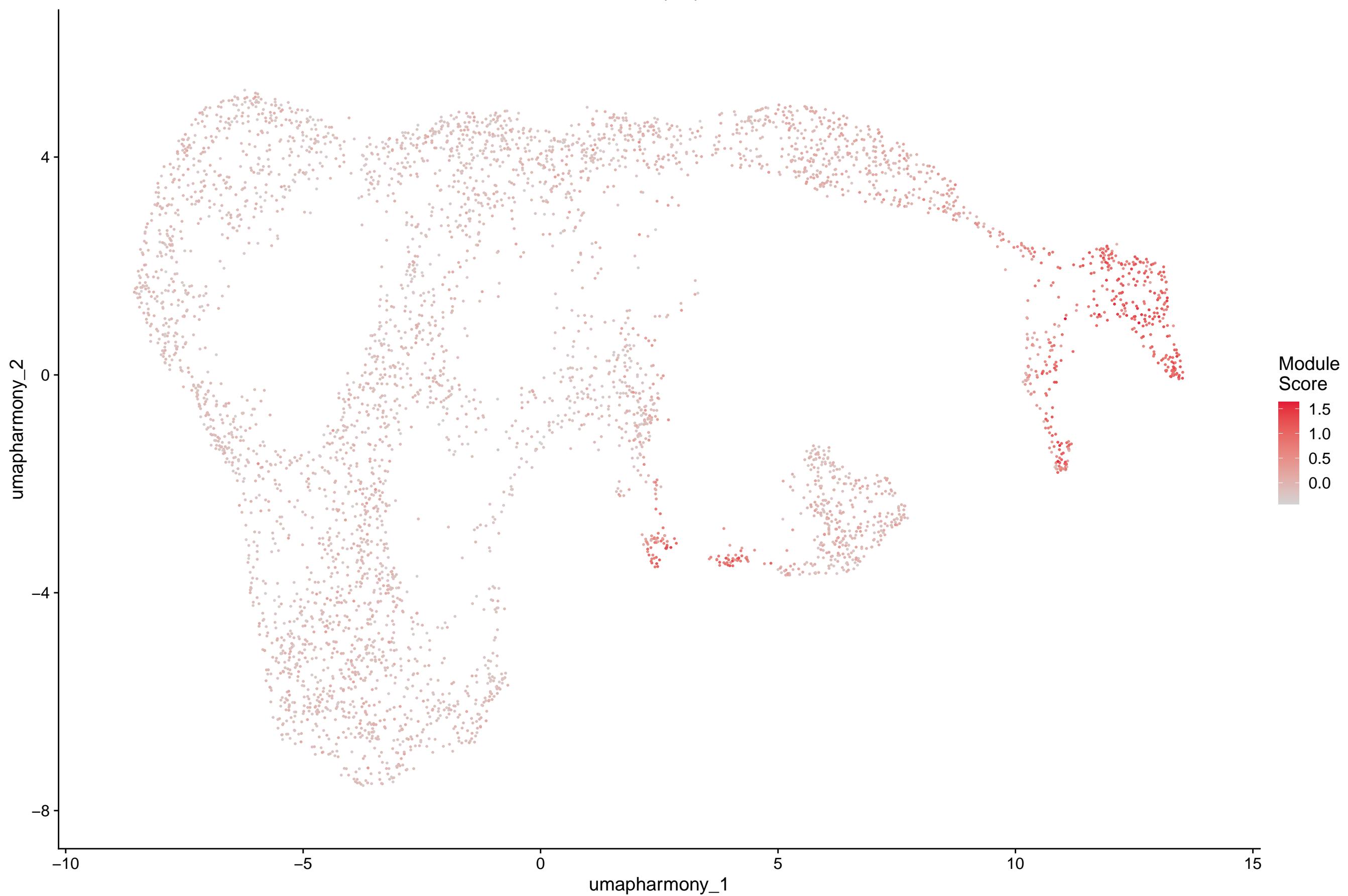
marker_set	gene_symbol
SST Interneurons	SST
SST Interneurons	VIP
Other Interneurons	CCK
Microglia	CX3CR1
Microglia	OBIF
Microglia	SP1999
Oligodendrocytes	OLIG1
Oligodendrocytes	SPG2
Astrocytes	GLAST
Cajal–Retzius/Subplate	CCK
Cajal–Retzius/Subplate	CR

Outer Radial Glia (oRG)
Genes: HOPX, TNC, PTPRZ1, FAM107A, LIFR, MOXD1
Outer Radial Glia (oRG) – Module Score

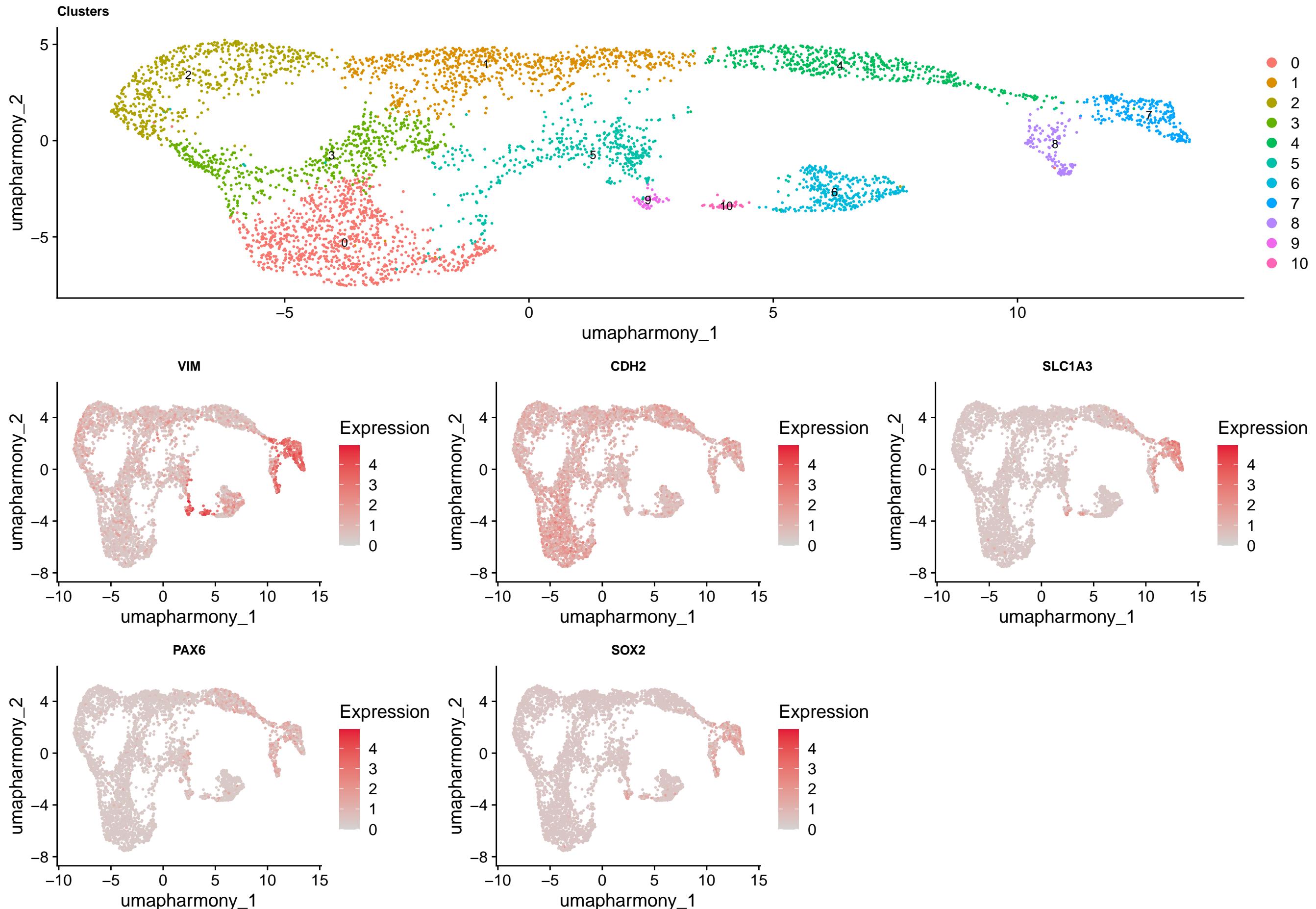




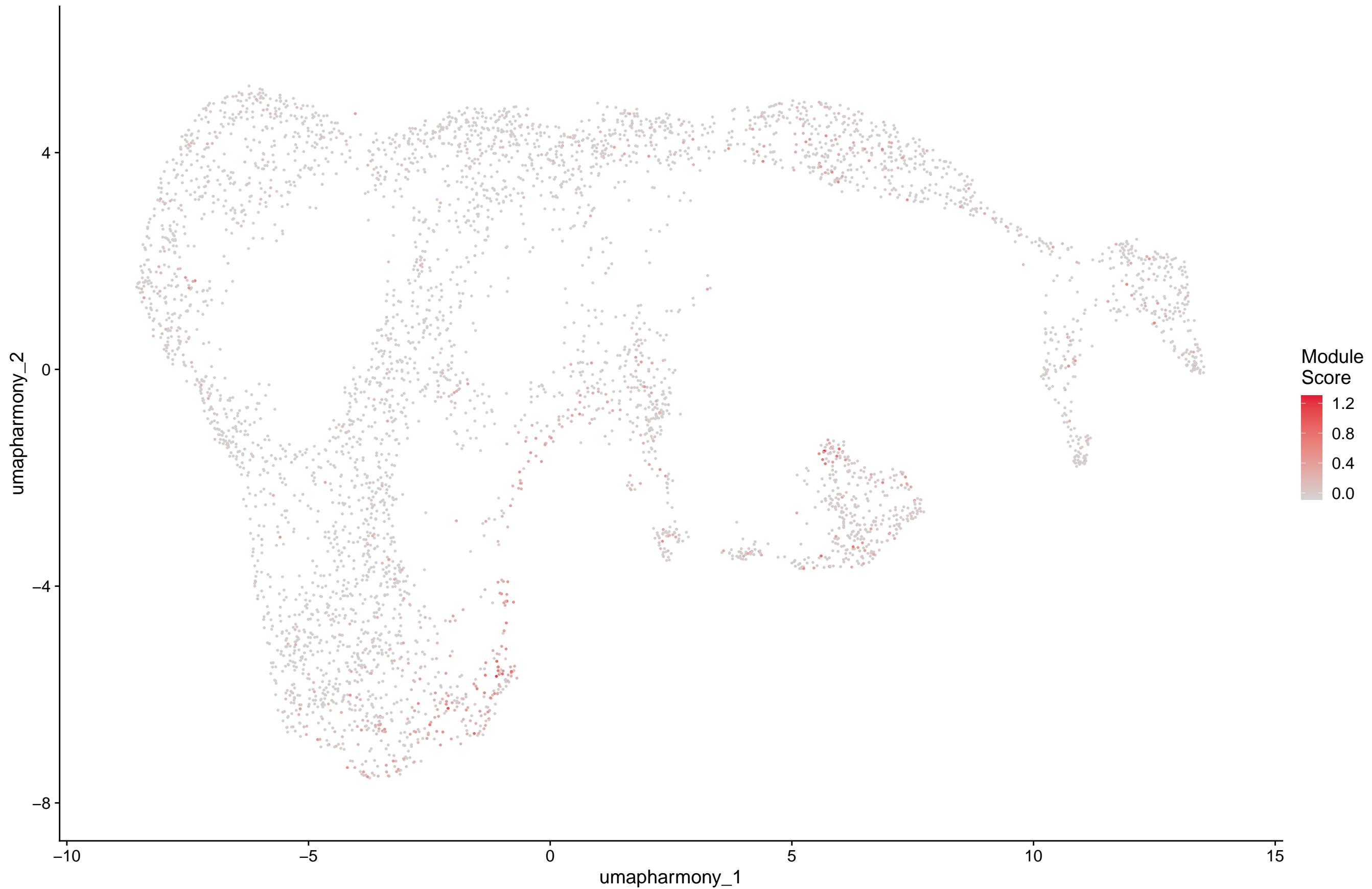
Ventricular Radial Glia (vRG)
Genes: VIM, NES, PAX6, HES1, SLC1A3, CDH2, SOX2
Ventricular Radial Glia (vRG) – Module Score

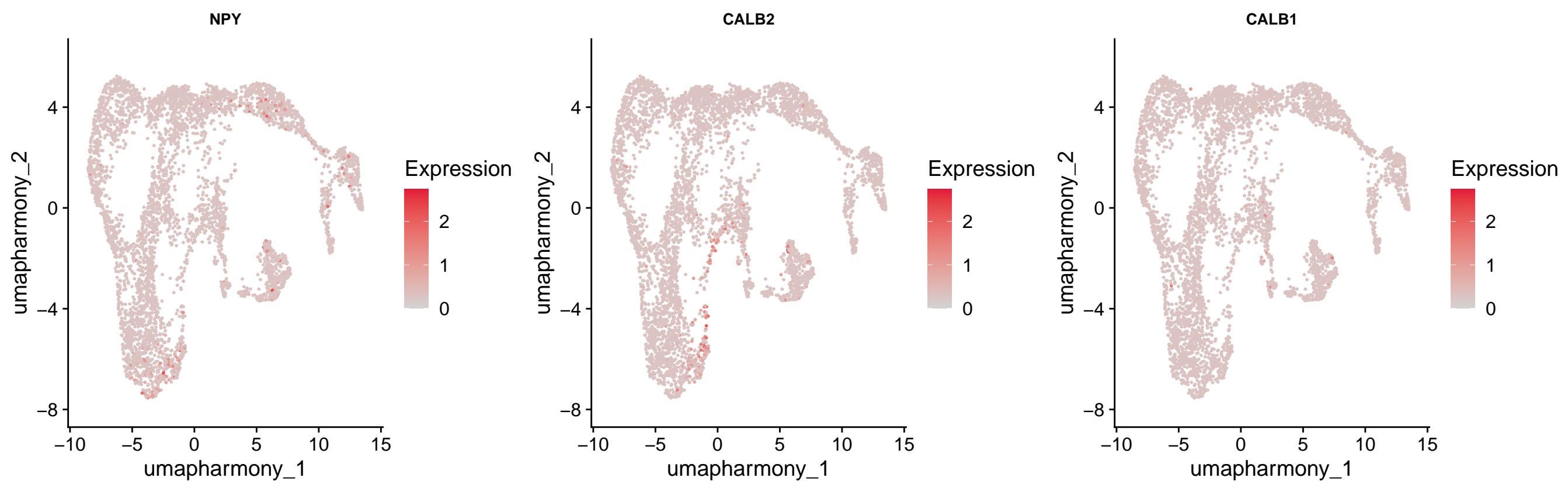
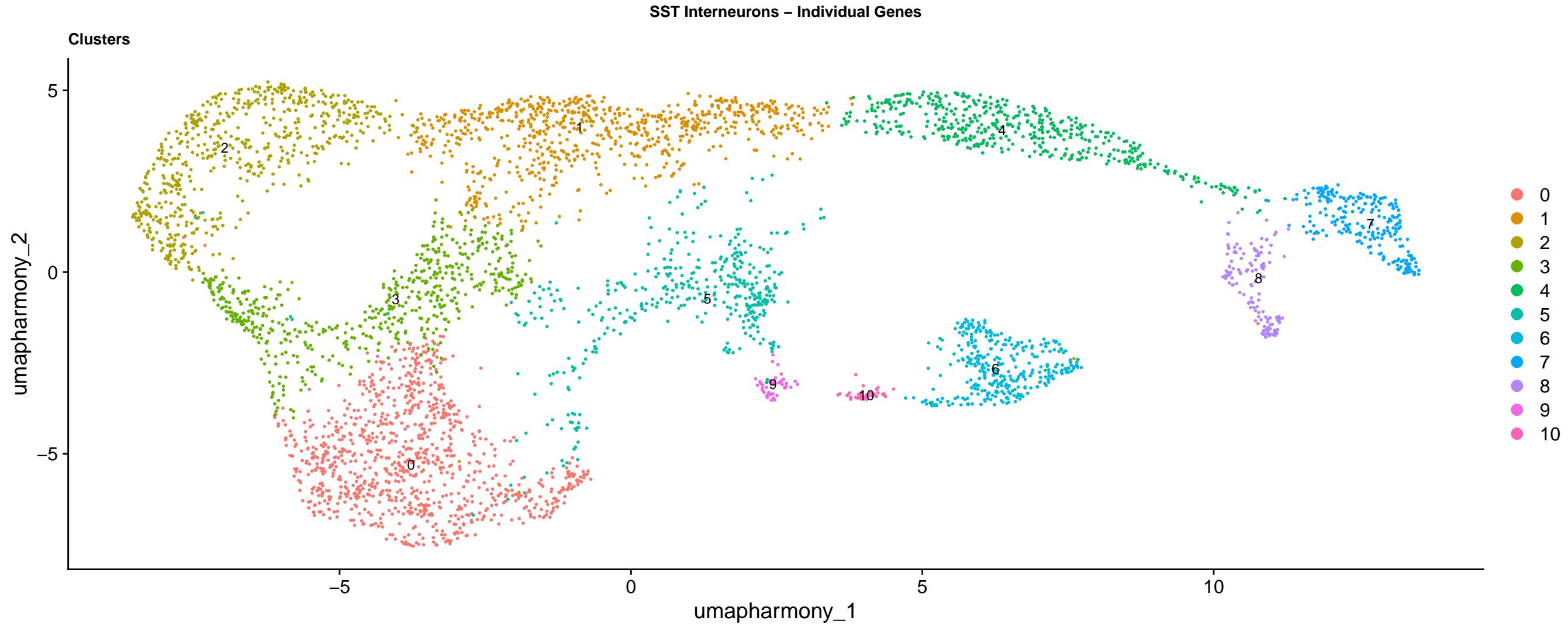


Ventricular Radial Glia (vRG) – Individual Genes

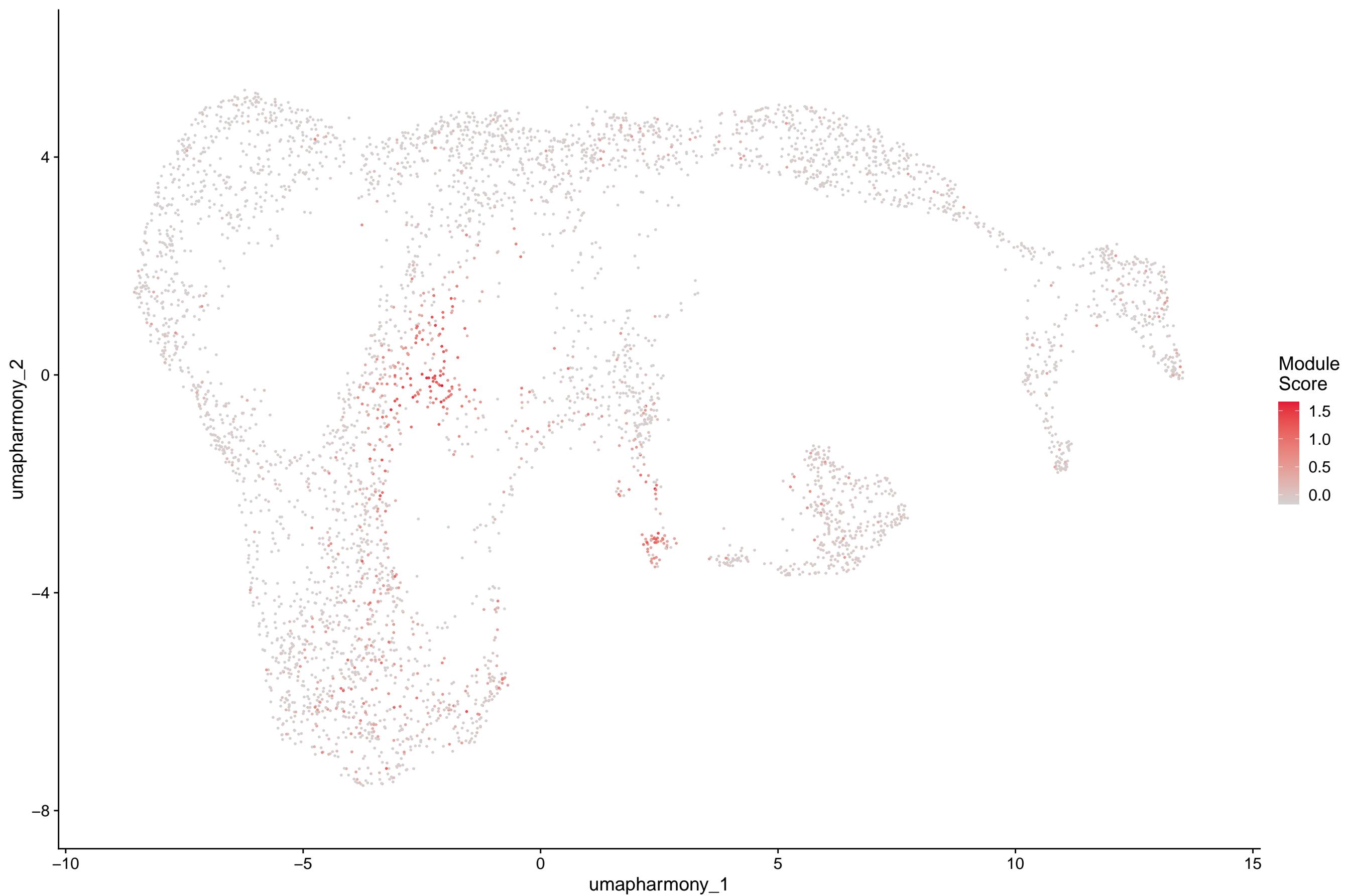


SST Interneurons
Genes: SST, VIP, CALB2, CALB1, NPY
[Missing: SST, VIP]
SST Interneurons – Module Score

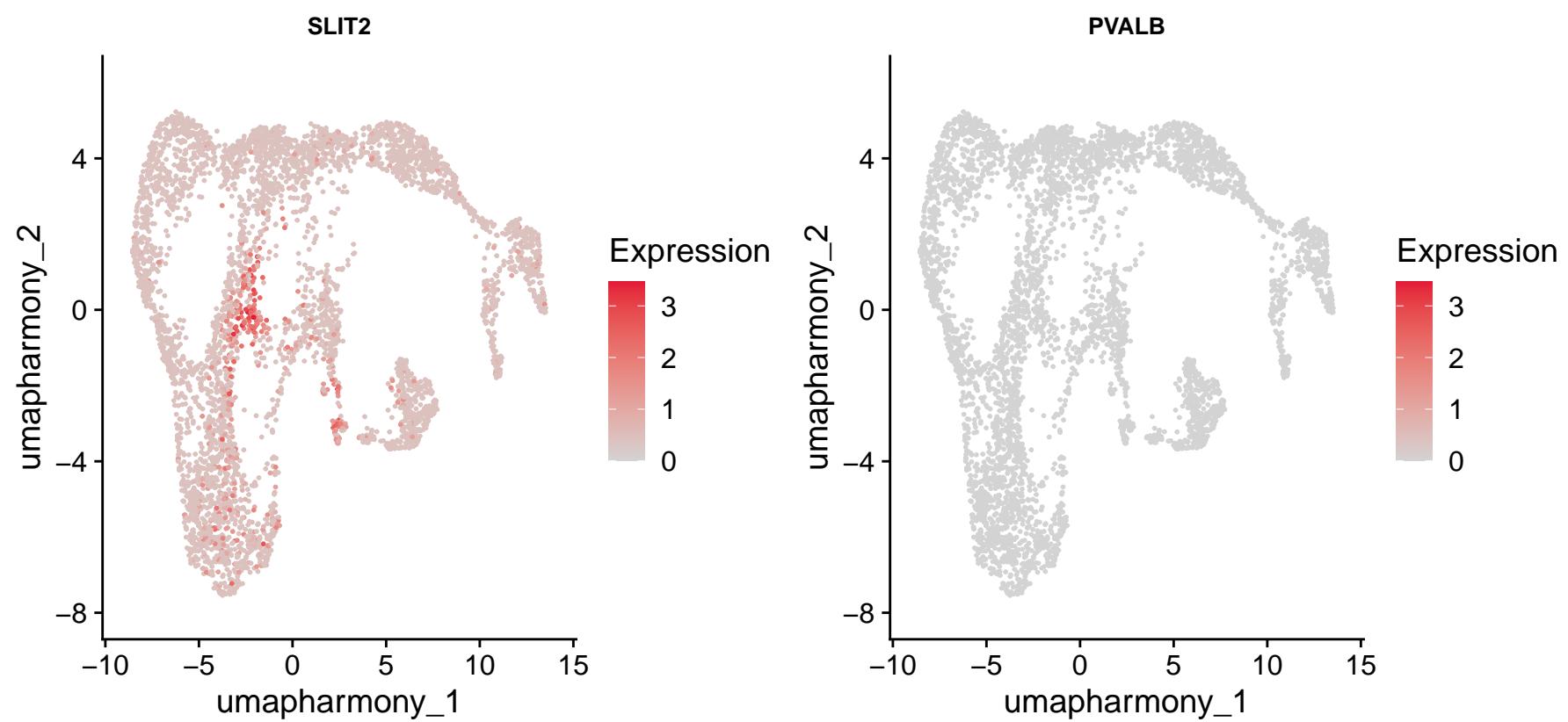
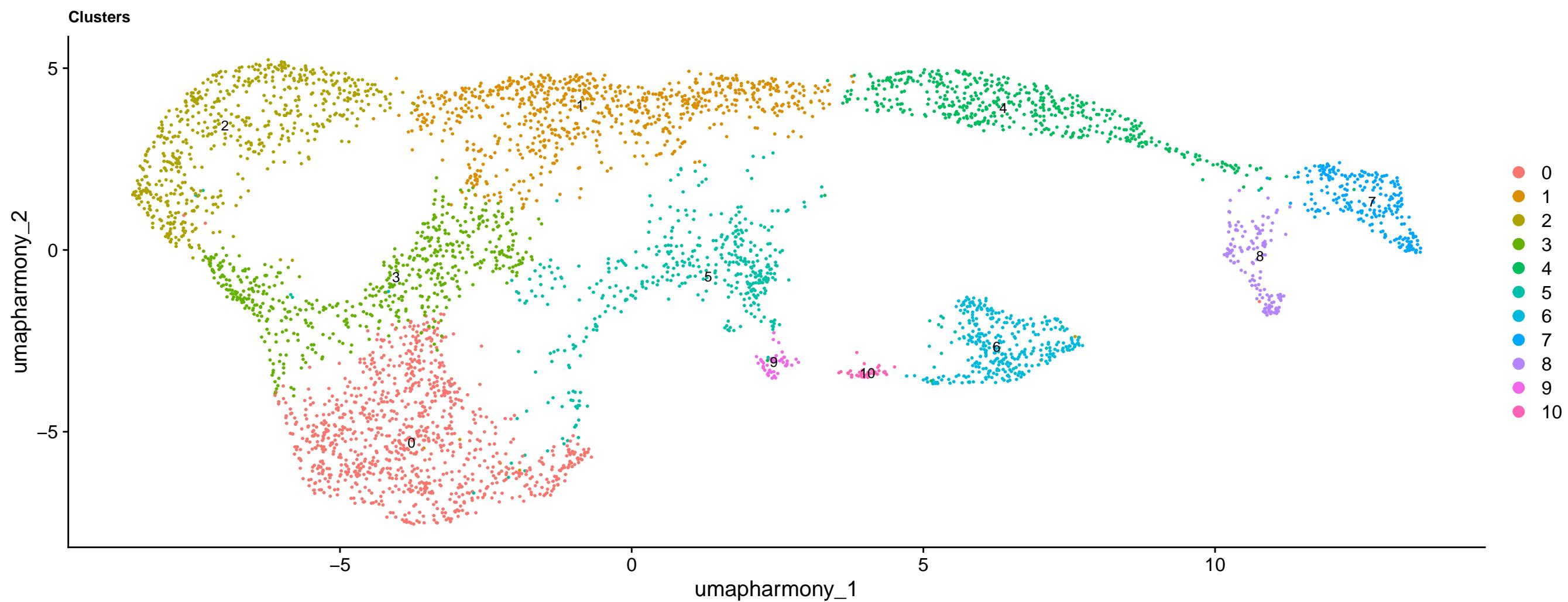




Parvalbumin Interneurons
Genes: PVALB, SLIT2
Parvalbumin Interneurons – Module Score

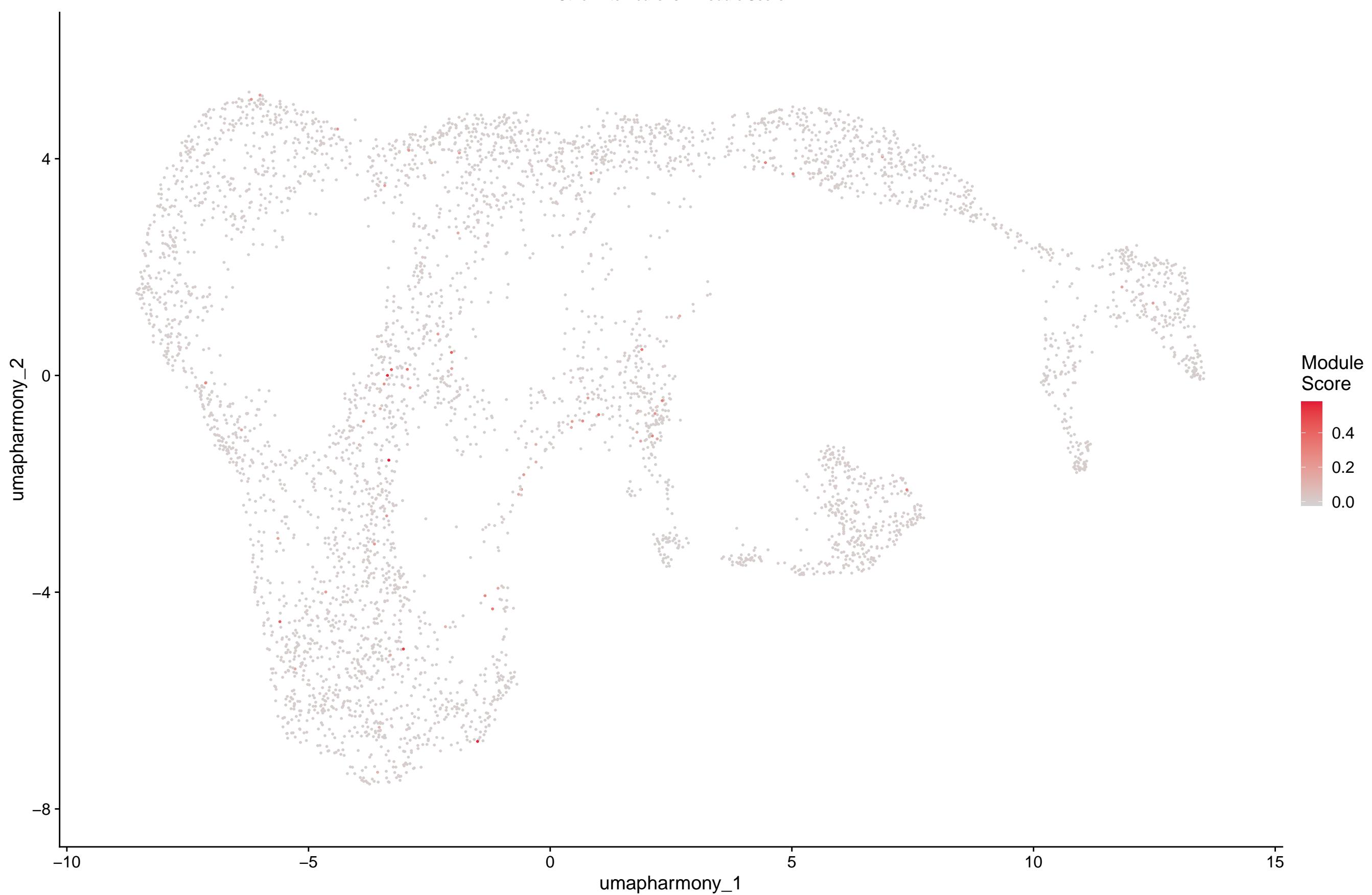


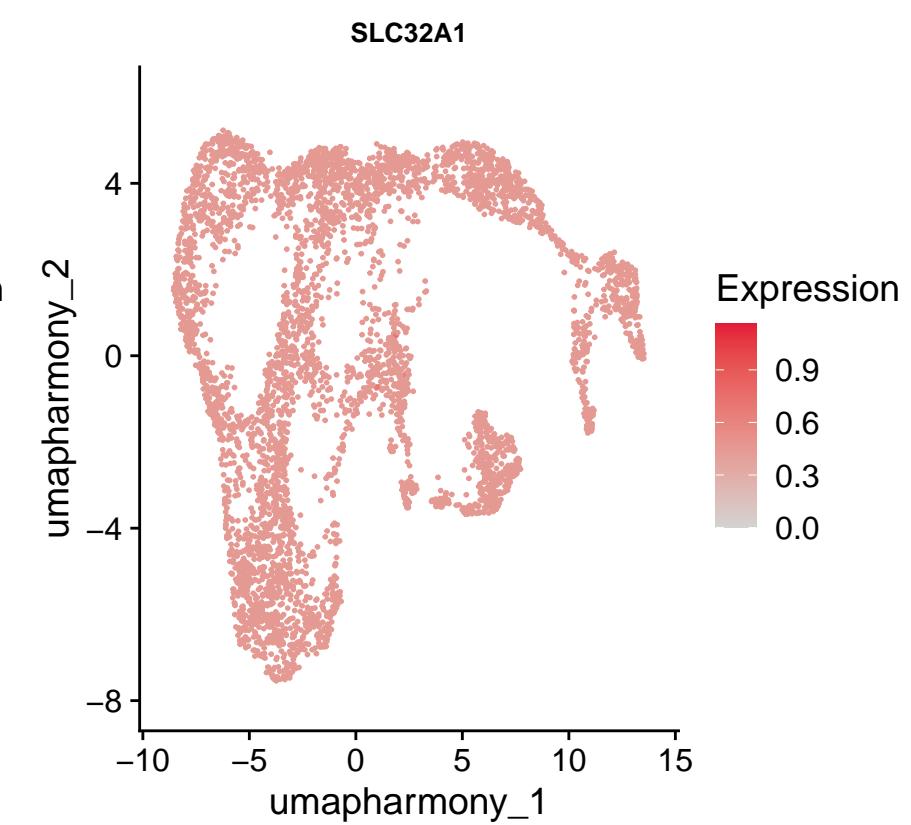
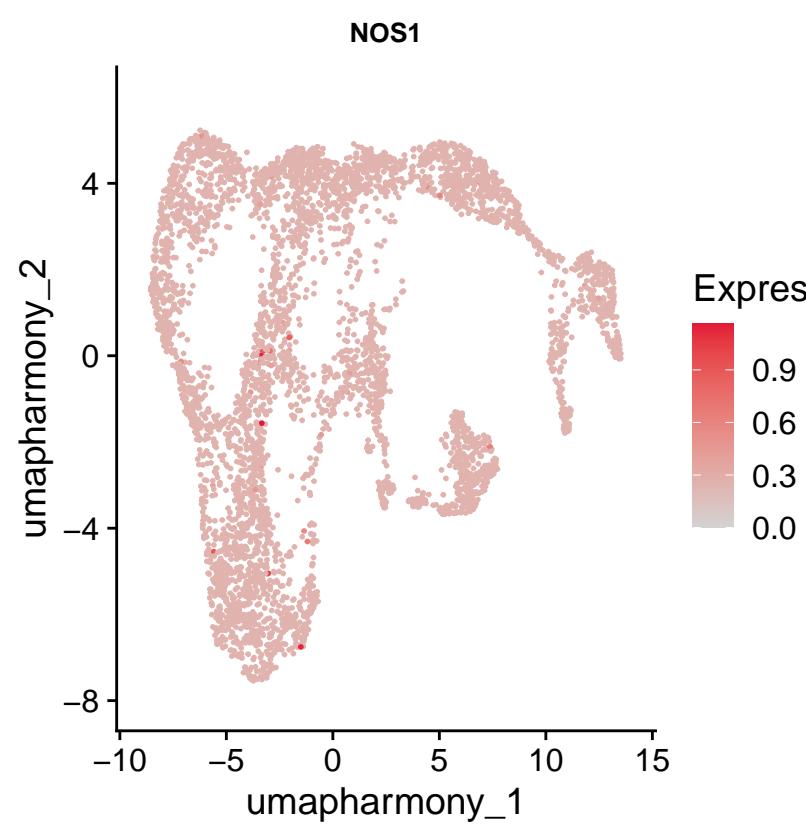
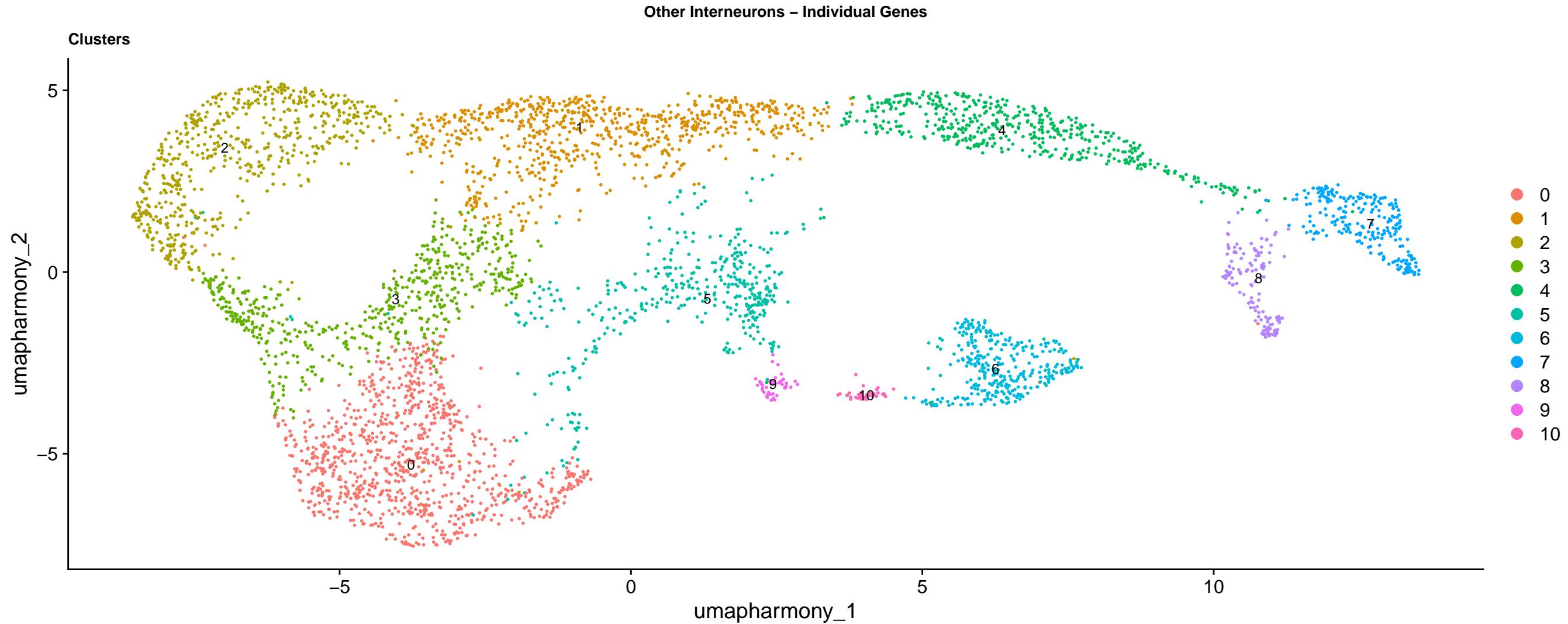
Parvalbumin Interneurons – Individual Genes



Other Interneurons
Genes: NOS1, CCK, SLC32A1
[Missing: CCK]

Other Interneurons – Module Score

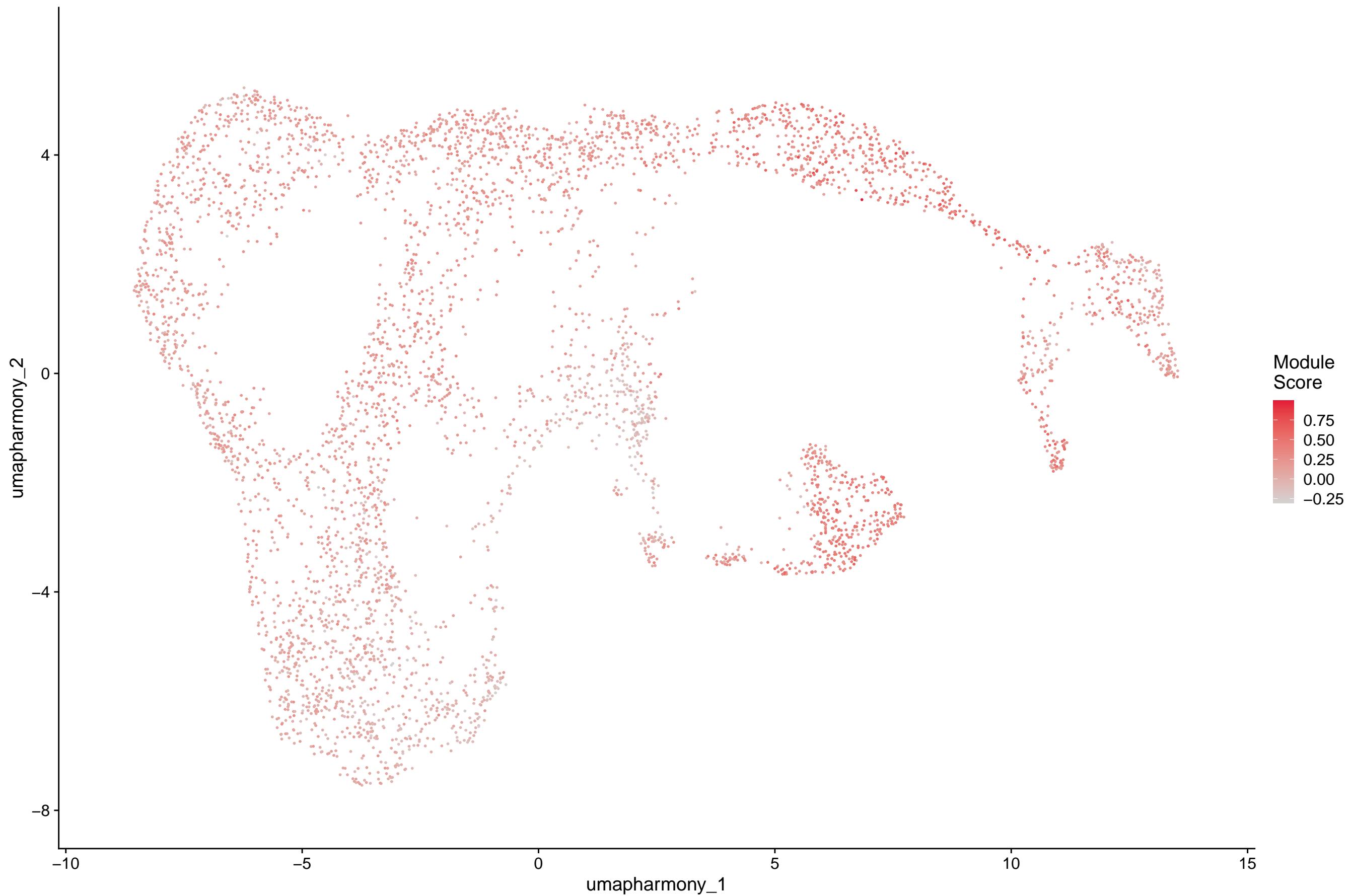




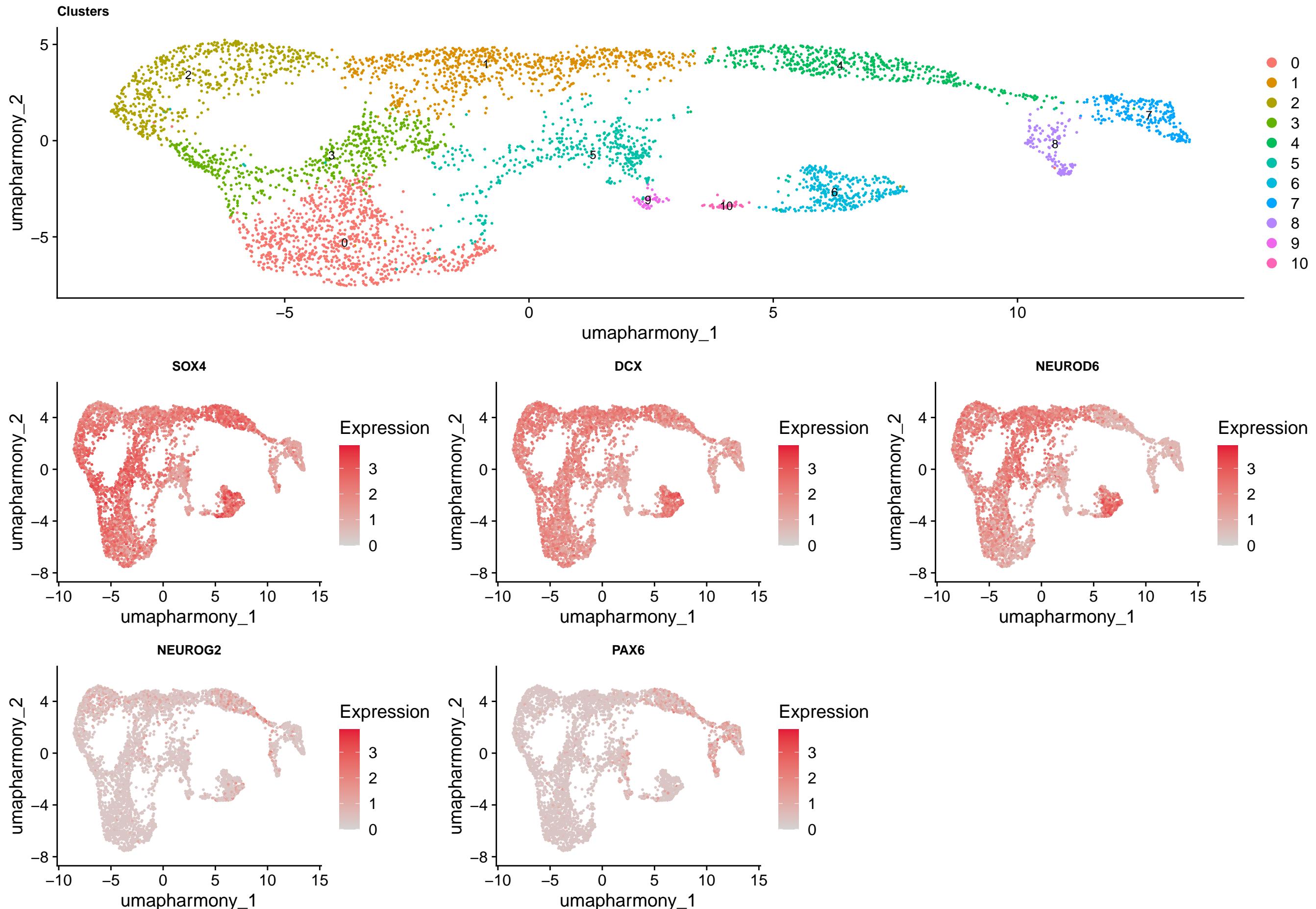
Intermediate Progenitors (IP)

Genes: NEUROD6, PPP1R17, SOX4, EOMES, NEUROG2, ASCL1, DLL1, DCX, NES, PAX6, SOX2, SOX9, HES1

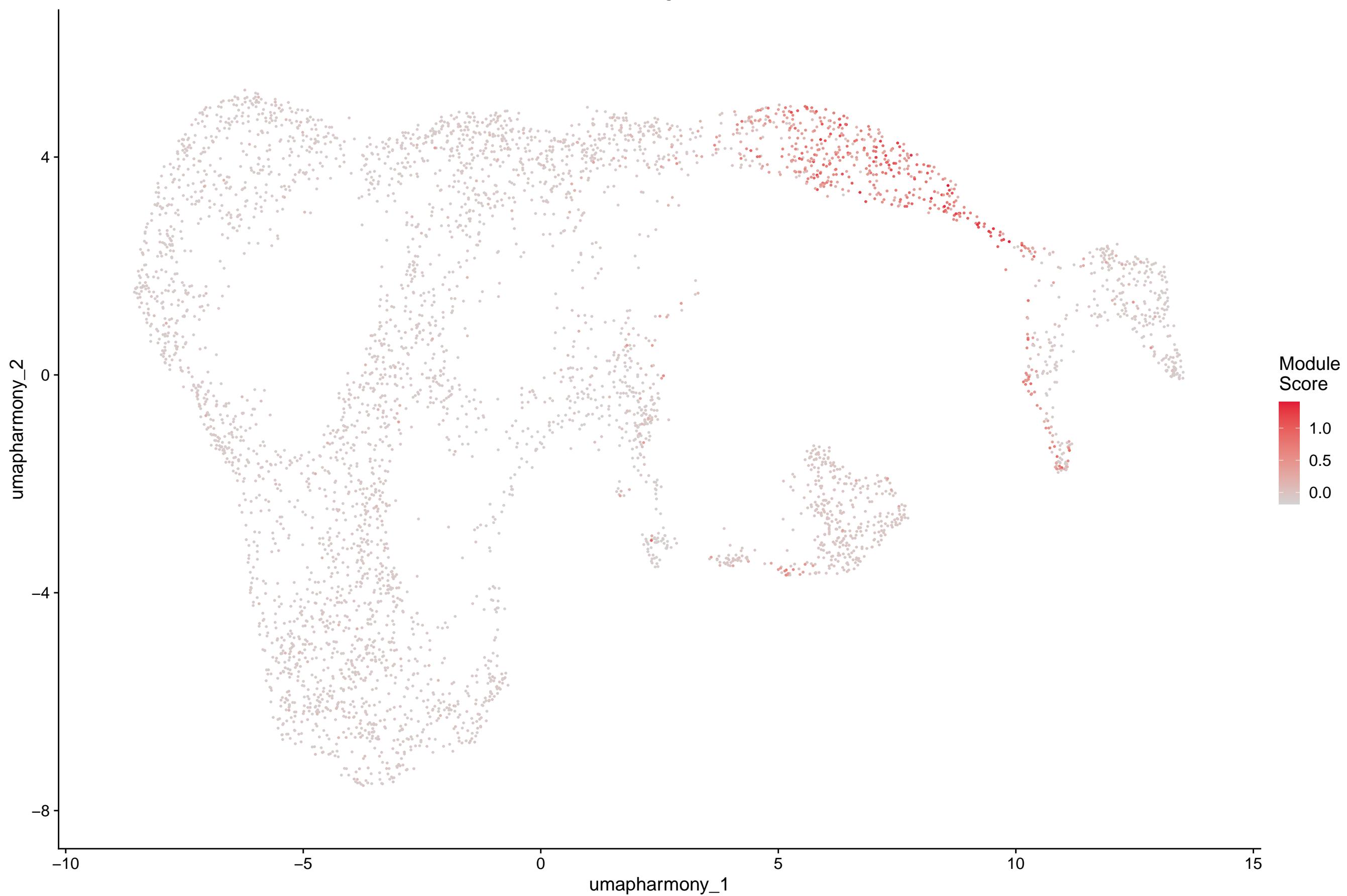
Intermediate Progenitors (IP) – Module Score



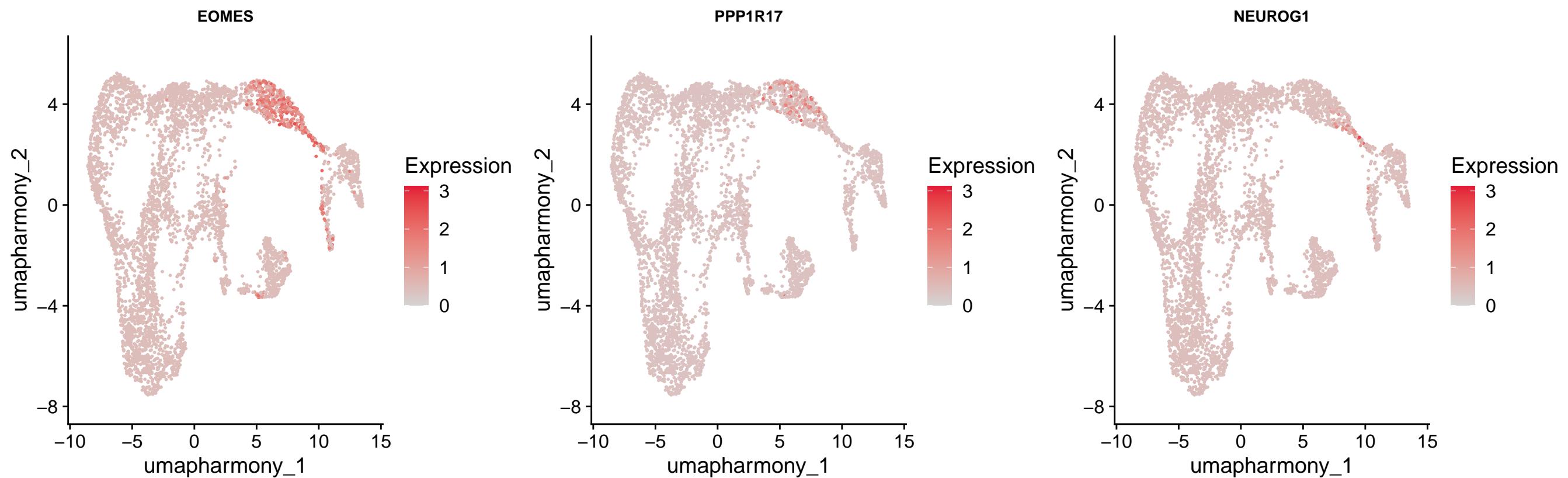
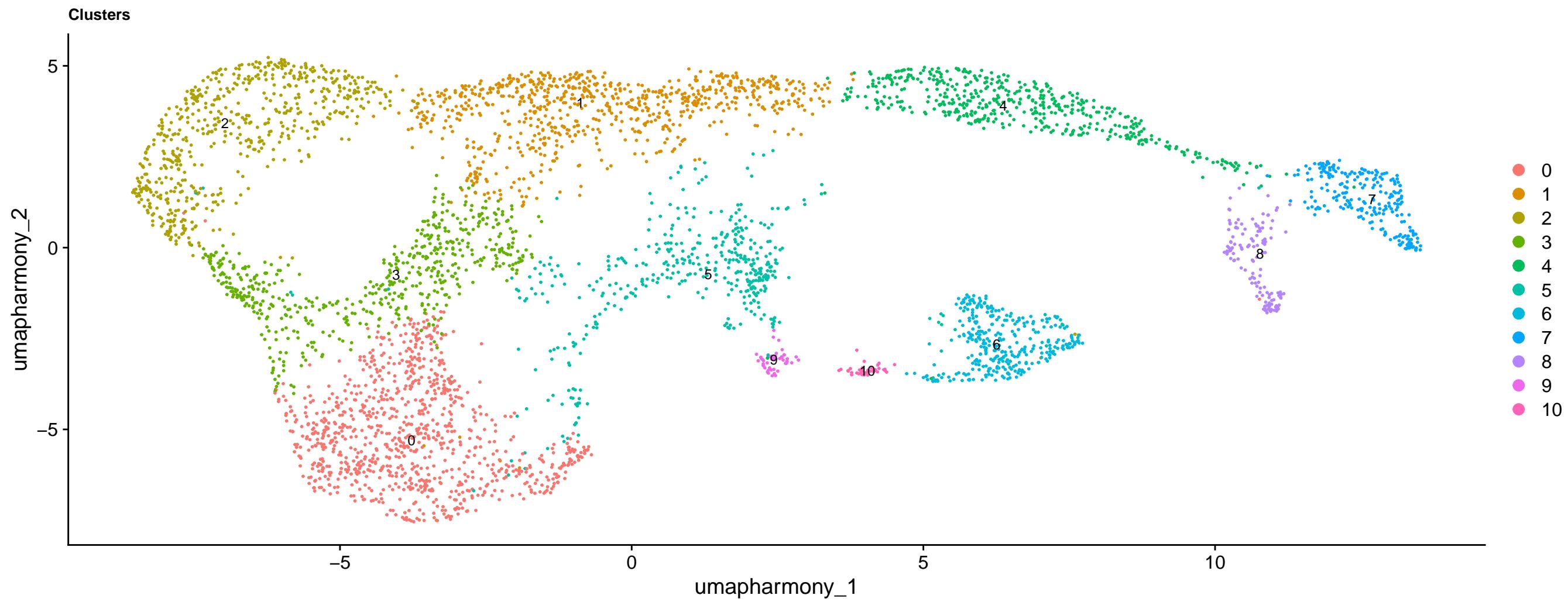
Intermediate Progenitors (IP) – Individual Genes



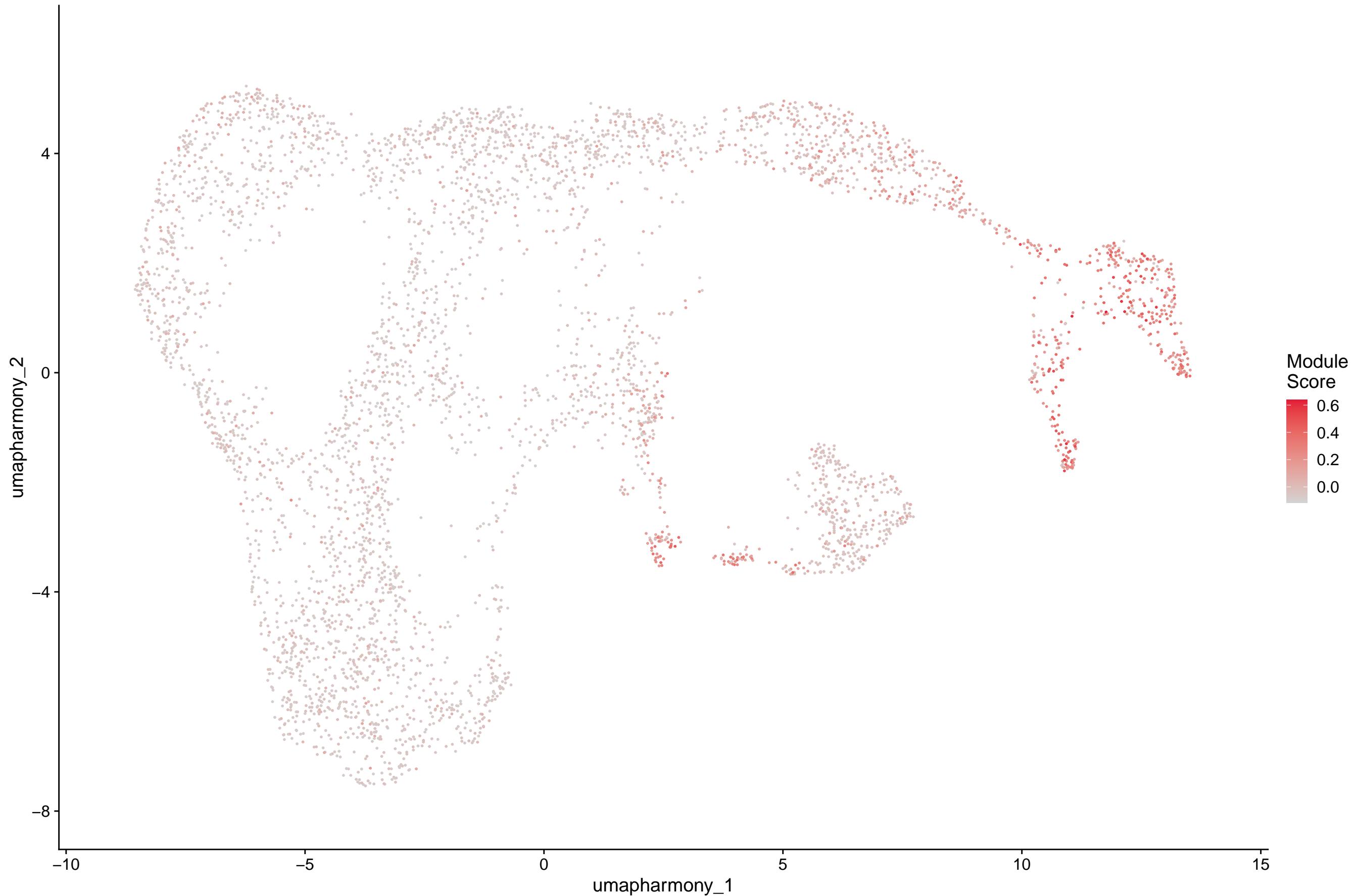
Neuronal Intermediate Progenitors
Genes: EOMES, PPP1R17, NEUROG1
Neuronal Intermediate Progenitors – Module Score

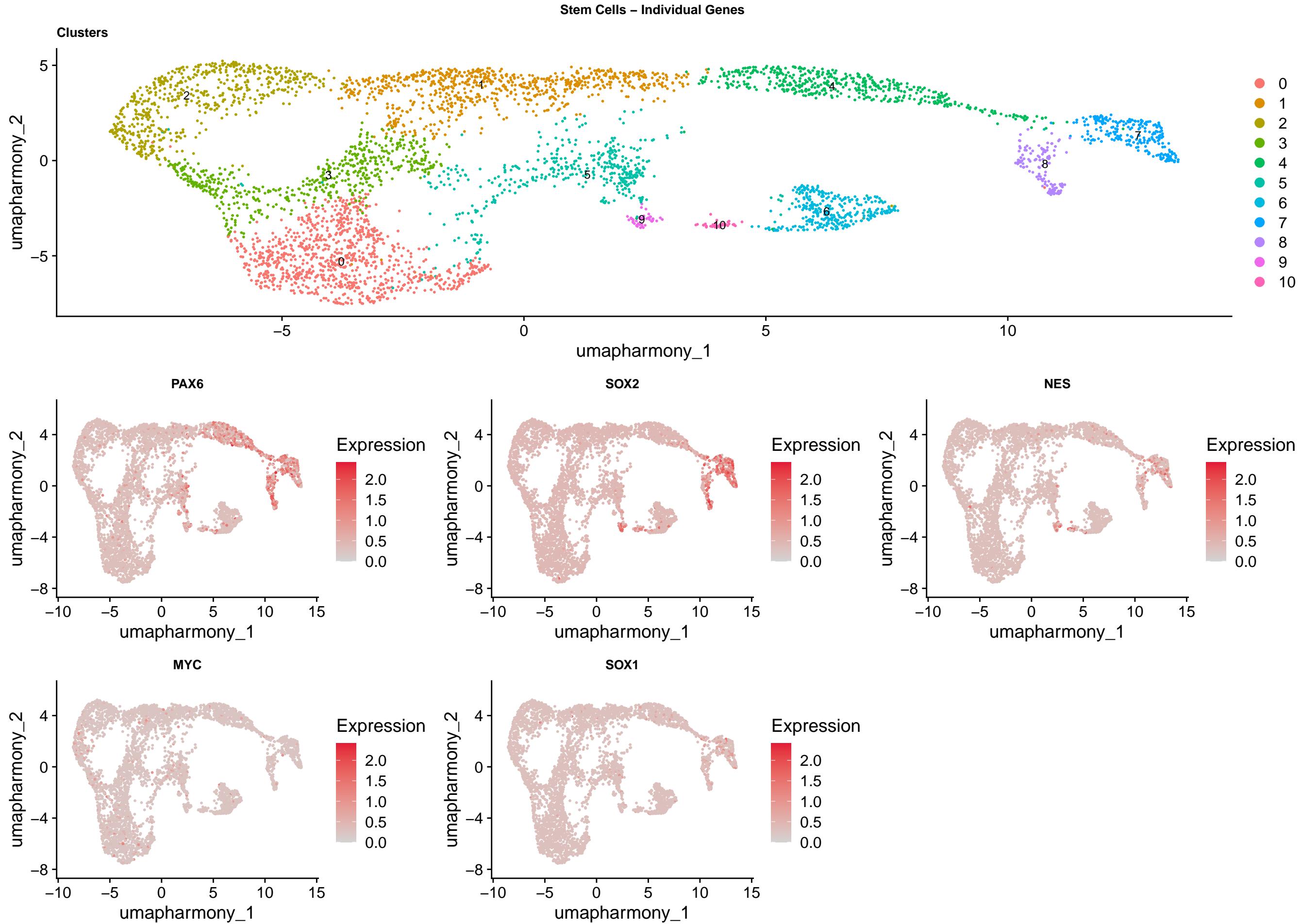


Neuronal Intermediate Progenitors – Individual Genes

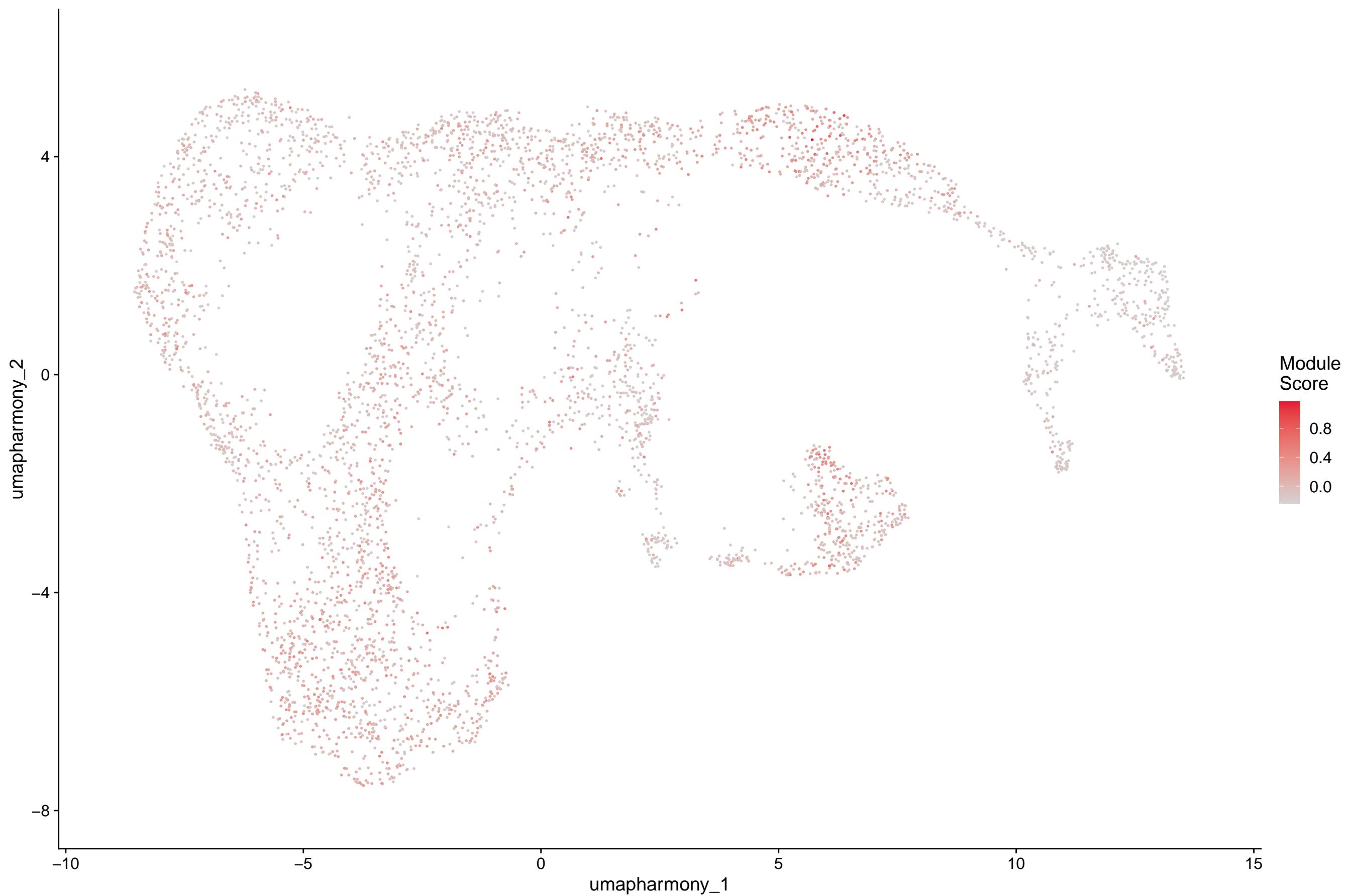


Stem Cells
Genes: SOX2, NES, MYC, PROM1, POU5F1, OLIG2, PAX6, SOX1
Stem Cells – Module Score

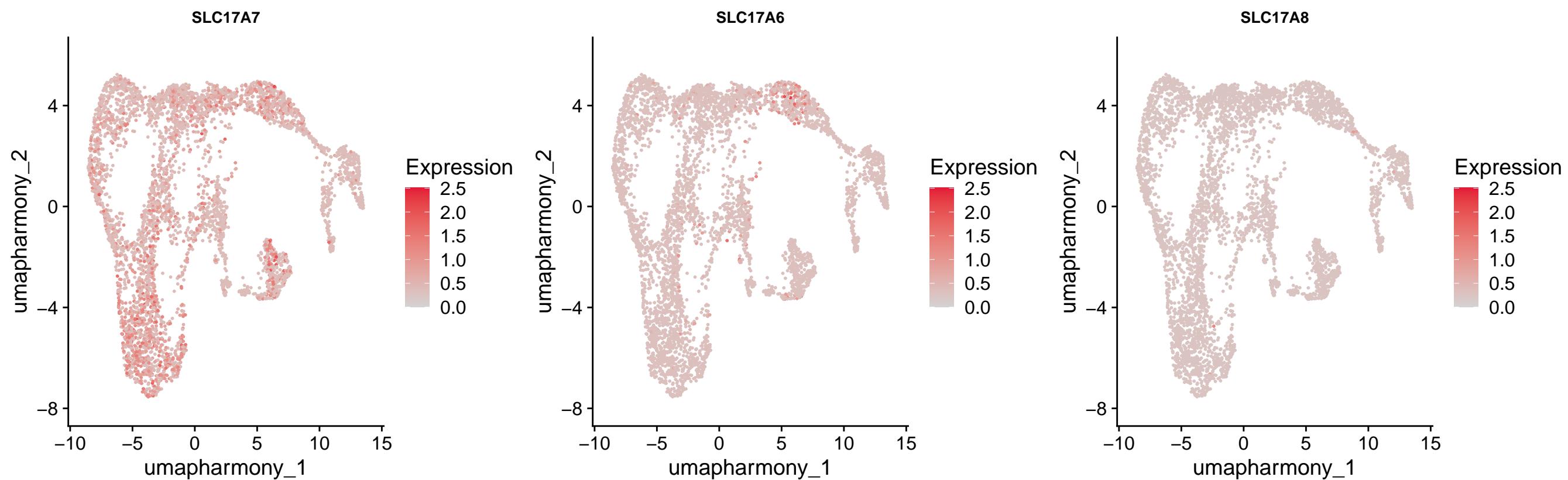
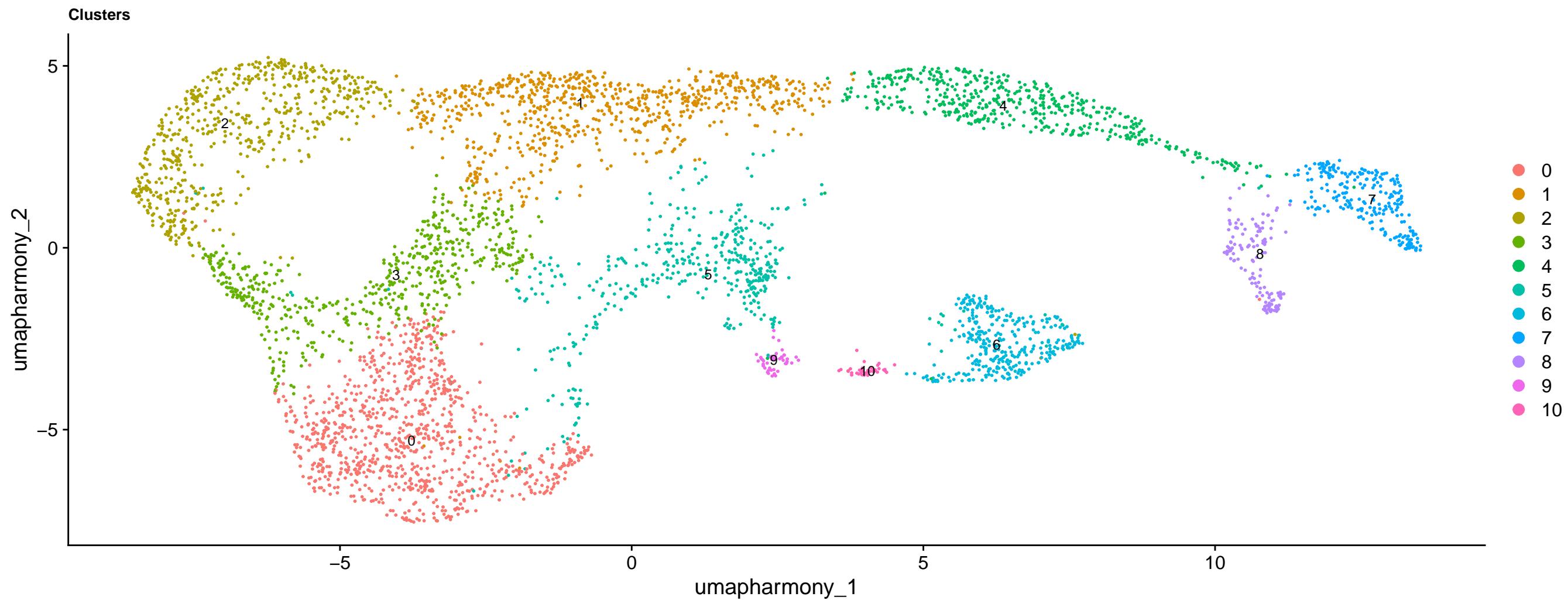




Glutamatergic Neurons
Genes: SLC17A6, SLC17A7, SLC17A8
Glutamatergic Neurons – Module Score



Glutamatergic Neurons – Individual Genes



Microglia

Genes: CX3CR1, OBIF, SP1999
[Missing: CX3CR1, OBIF, SP1999]

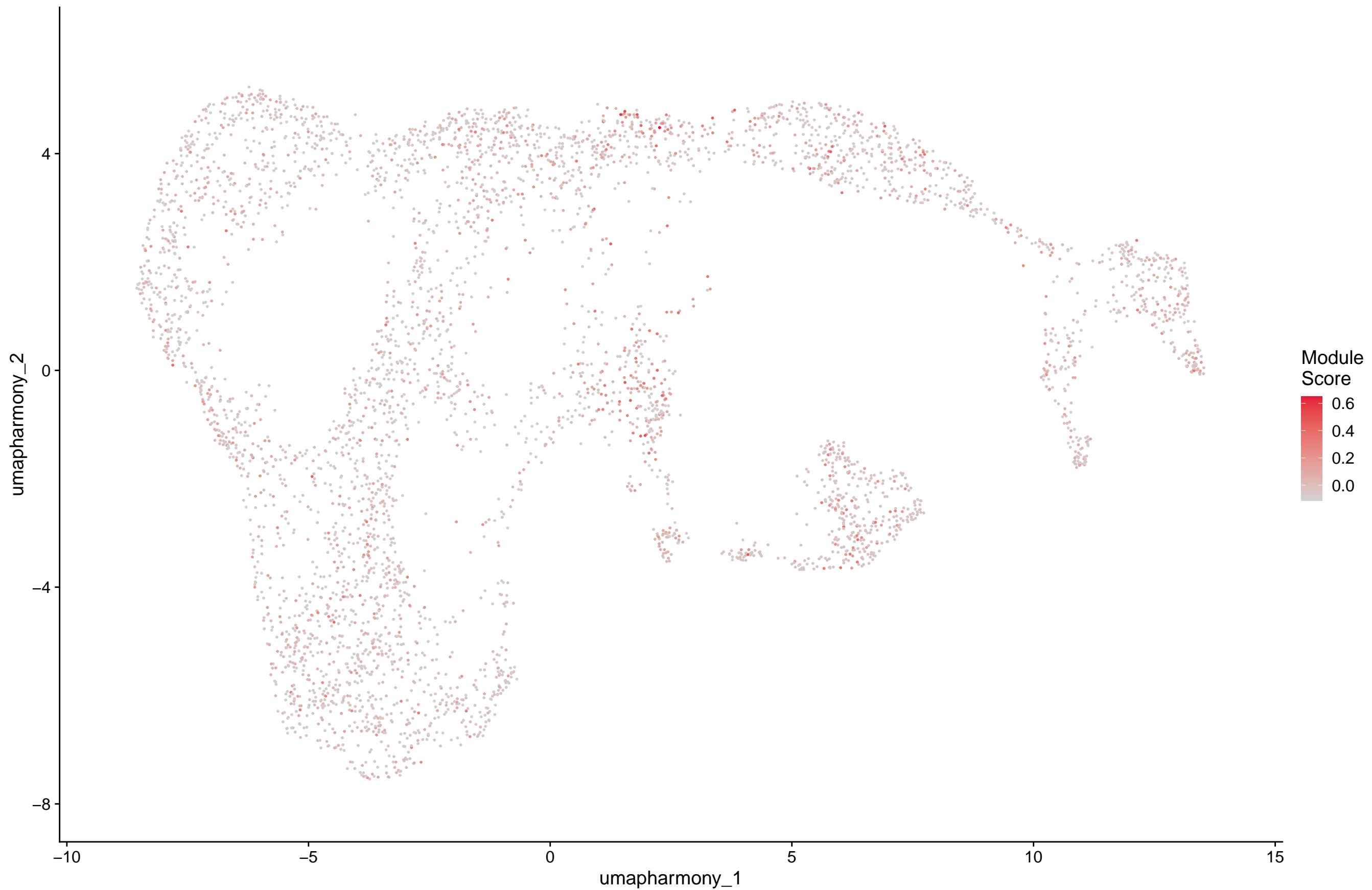
Microglia

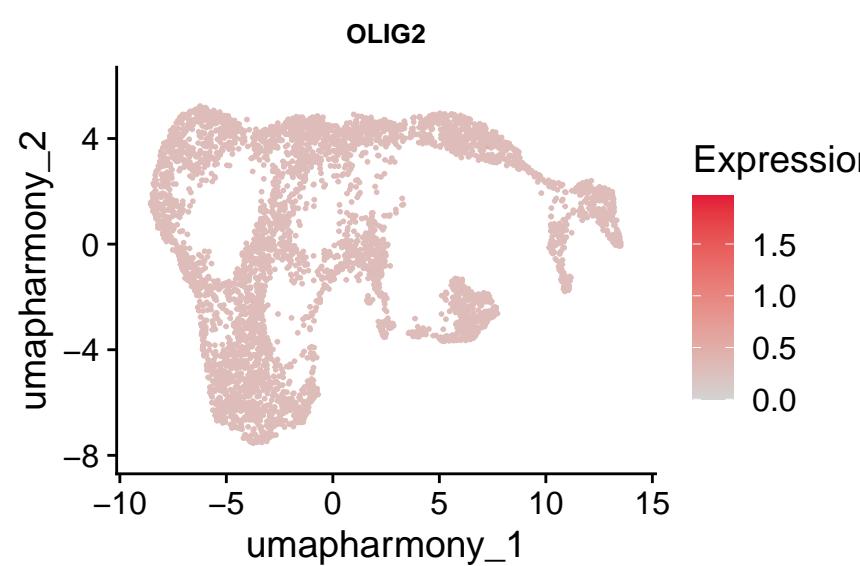
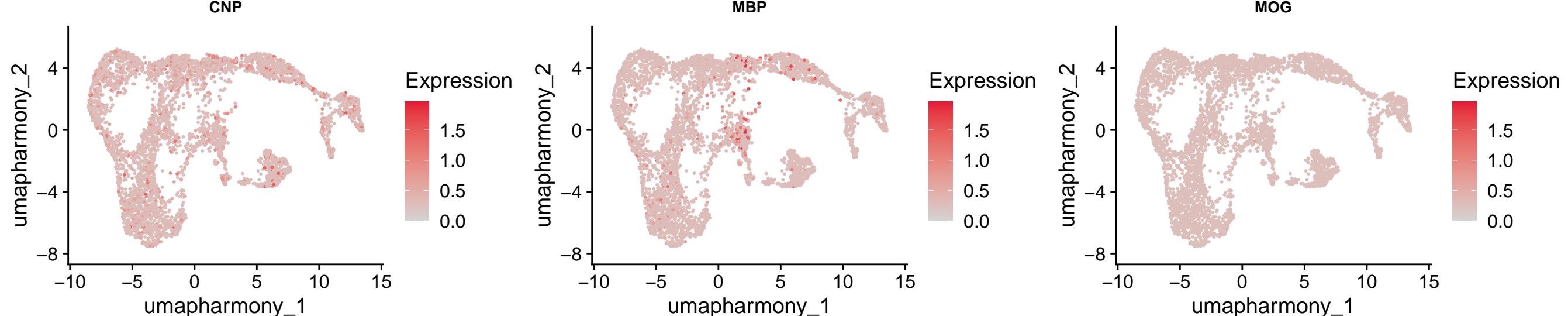
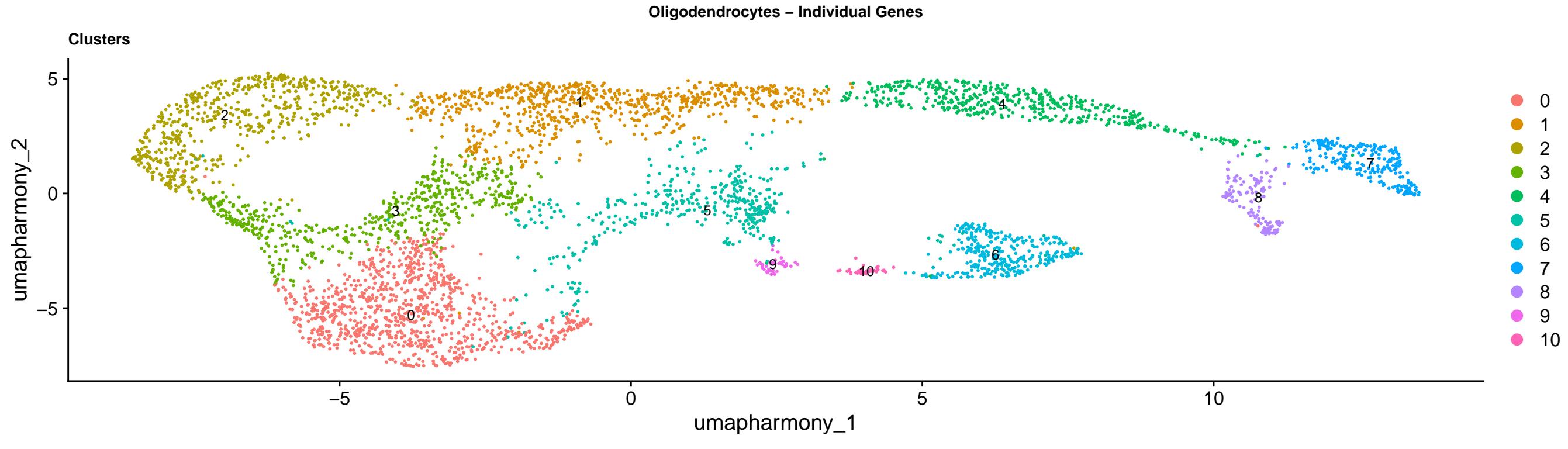
No valid genes found

Microglia

No valid genes found

Oligodendrocytes
Genes: OLIG2, OLIG1, MBP, SPG2, CNP, MOG
[Missing: OLIG1, SPG2]
Oligodendrocytes – Module Score

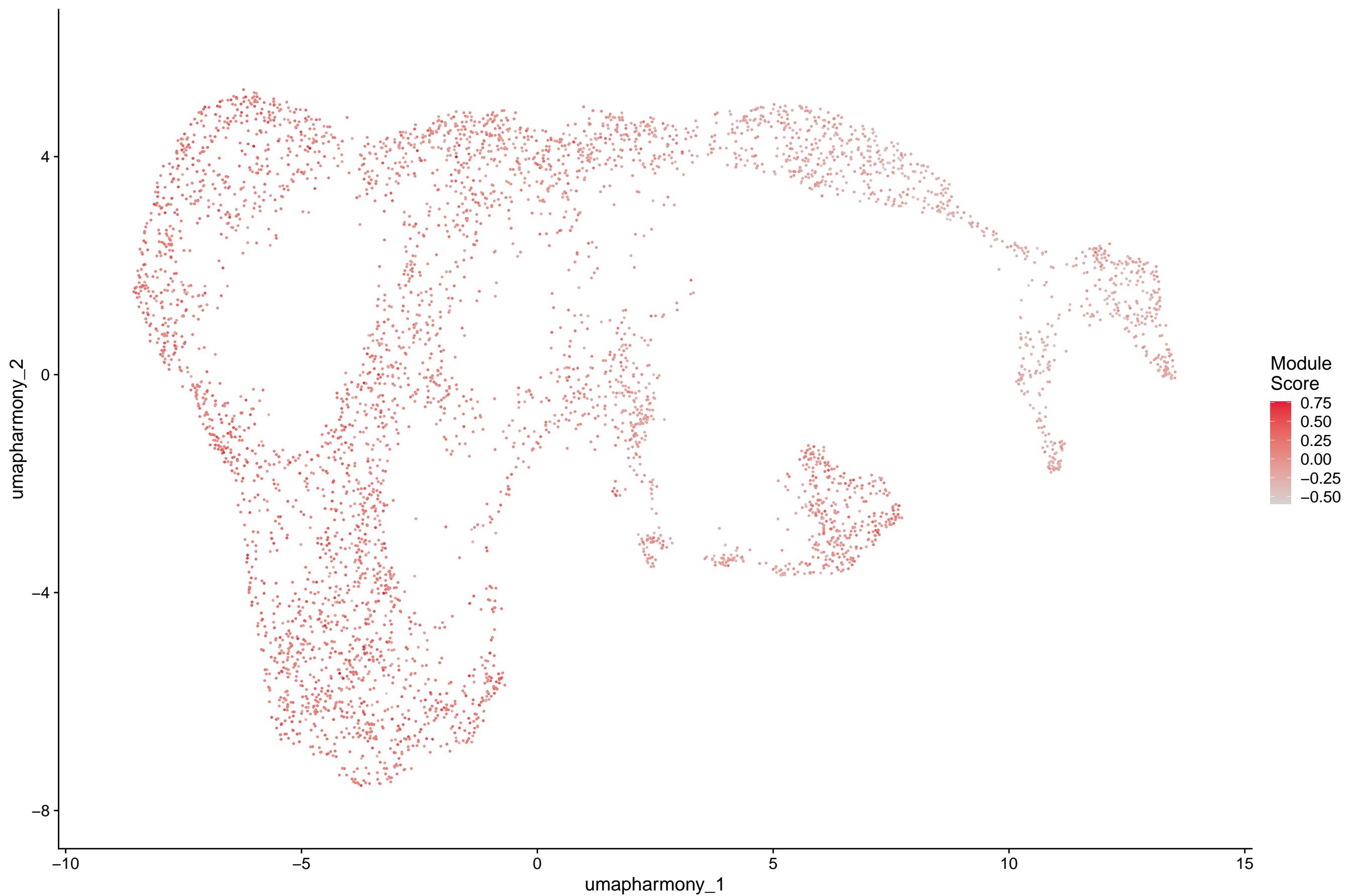




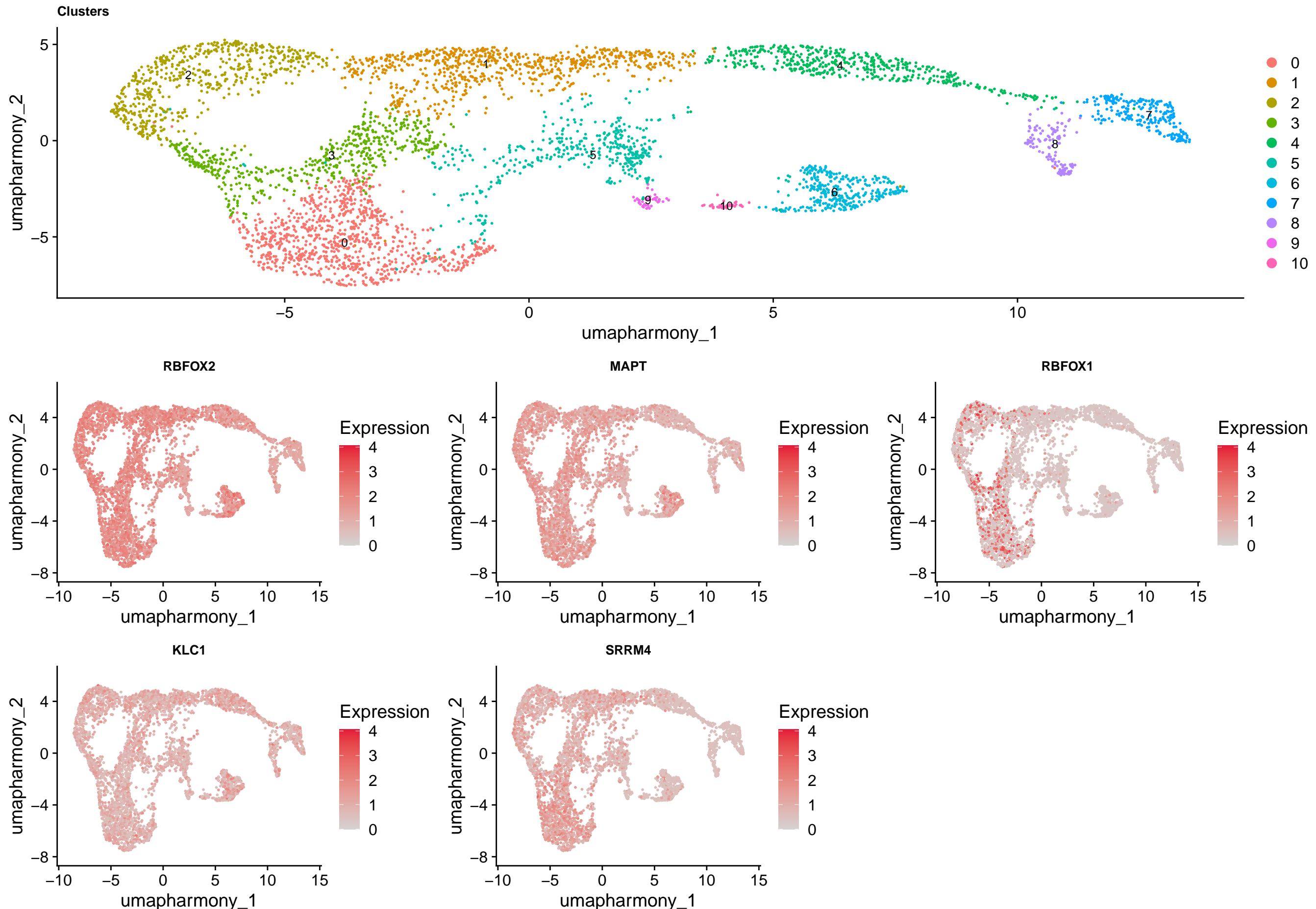
Pan–Neuronal Markers

Genes: MAPT, GABBR2, KLC1, CACNA1C, DOC2A, RBFOX1, RBFOX2, CLCN3, REST, SRRM4

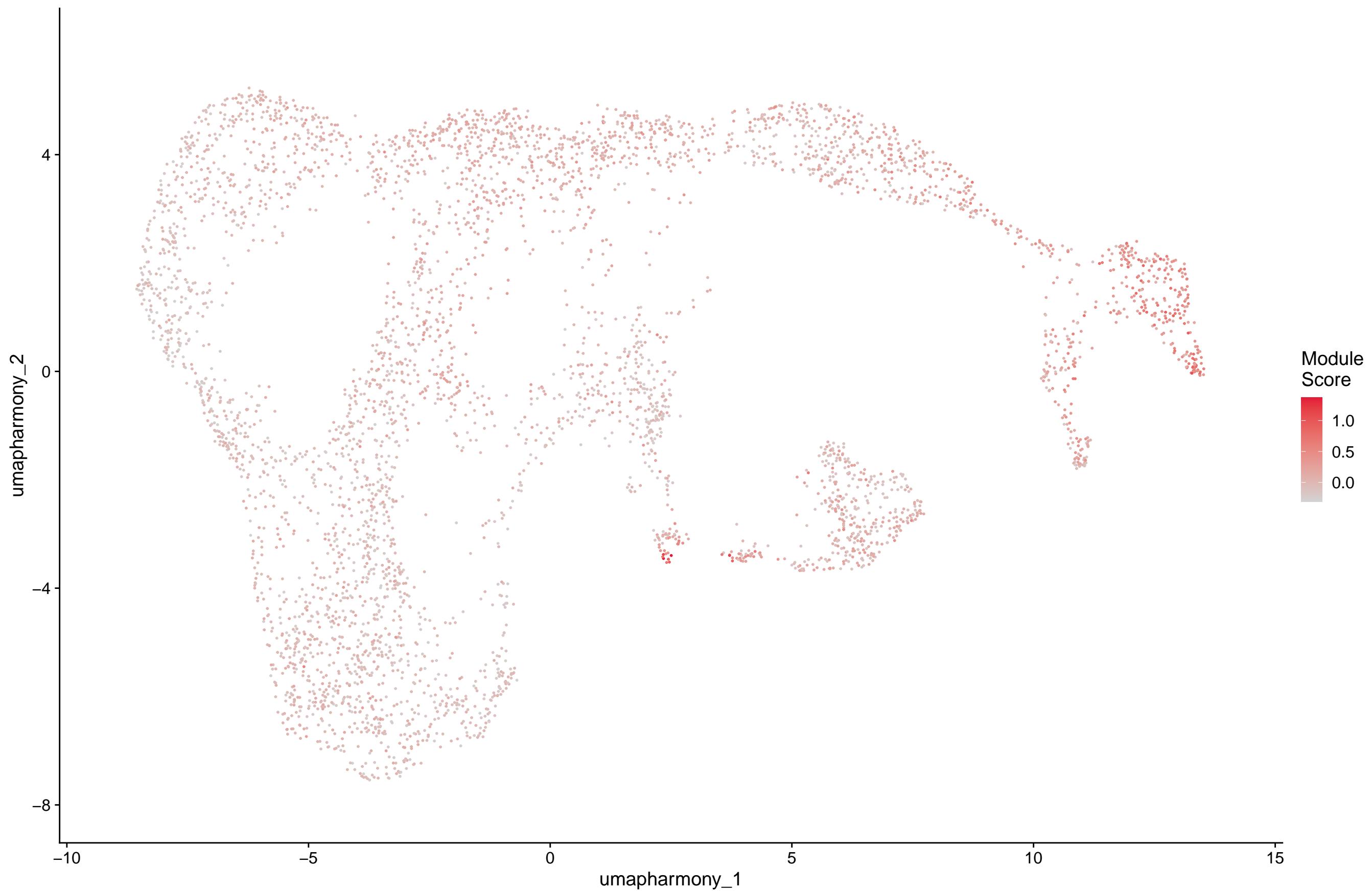
Pan–Neuronal Markers – Module Score

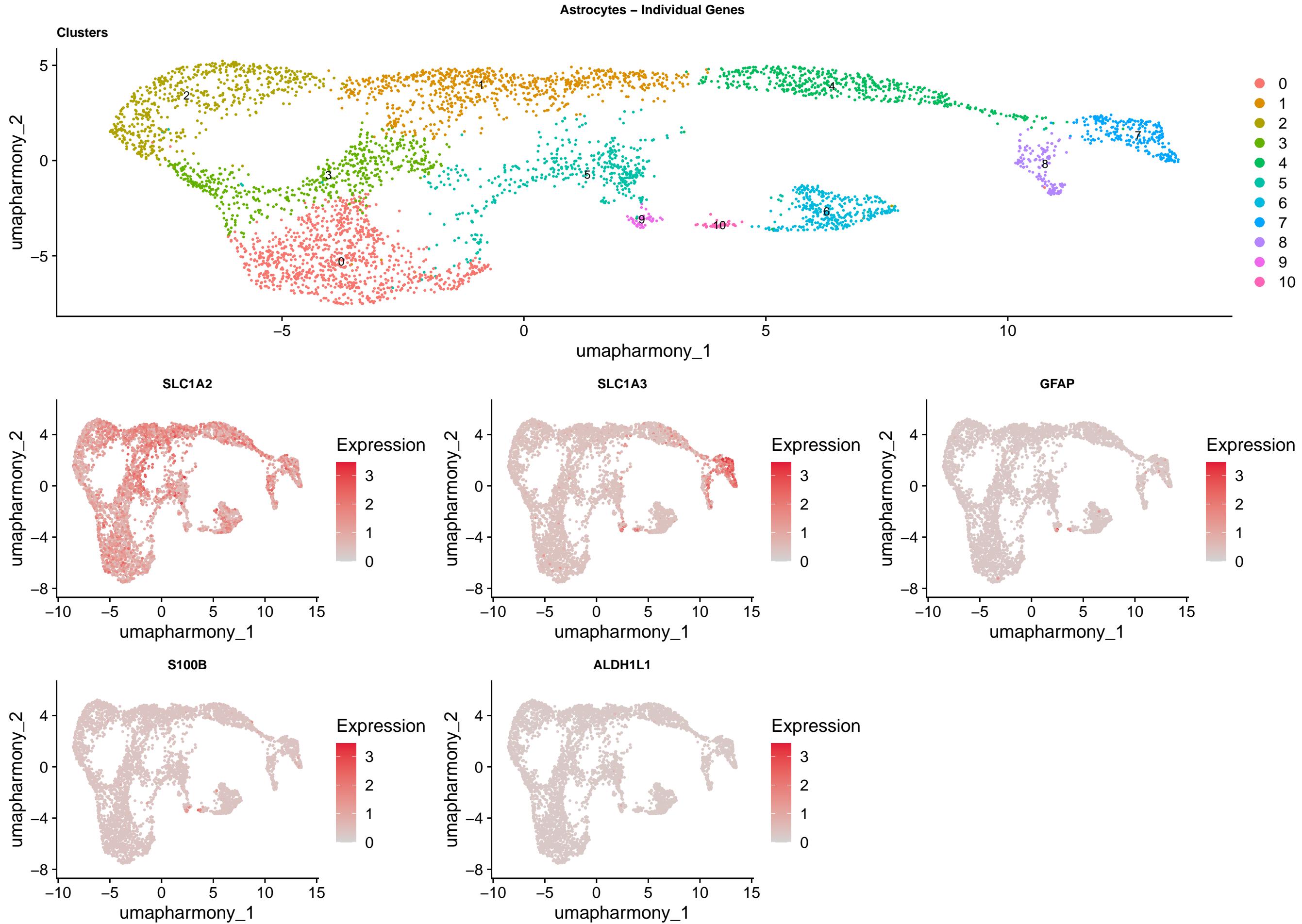


Pan-Neuronal Markers – Individual Genes

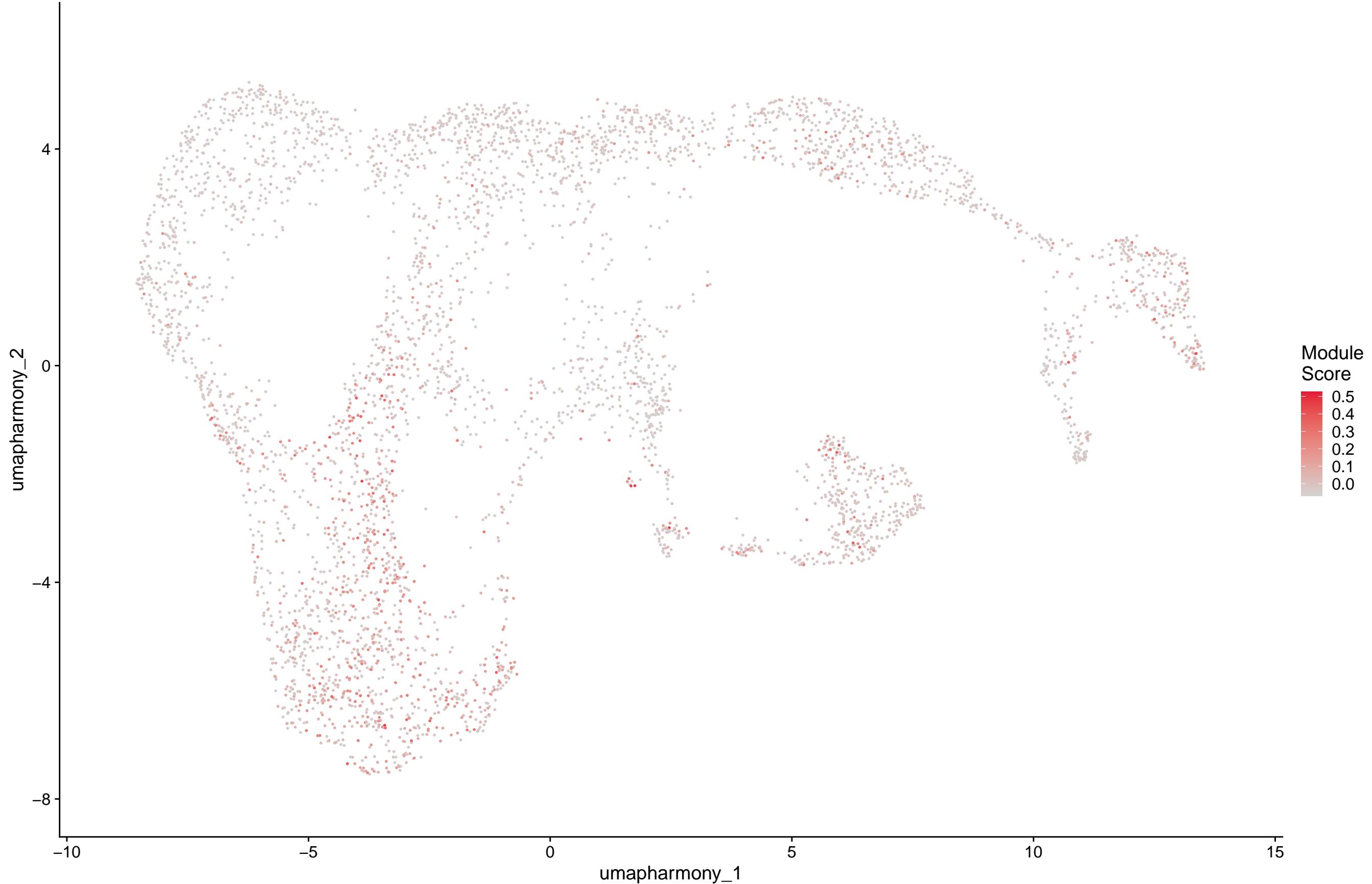


Astrocytes
Genes: GFAP, S100B, ALDH1L1, GLAST, SLC1A2, SLC1A3
[Missing: GLAST]
Astrocytes – Module Score





Cajal–Retzius/Subplate
Genes: RELN, SSTR1, NPY, CCK, CR, CRH, LHX6, SLC6A1
[Missing: CCK, CR]
Cajal–Retzius/Subplate – Module Score



Cajal–Retzius/Subplate – Individual Genes

