

# 3M\_Org – Marker Validation Summary

MARKER GENE VALIDATION SUMMARY

Timepoint: 3M\_Org

Dataset Information:

Total Cells: 4071

Number of Clusters: 10

Consensus Cell Types: 8

Marker Structure:

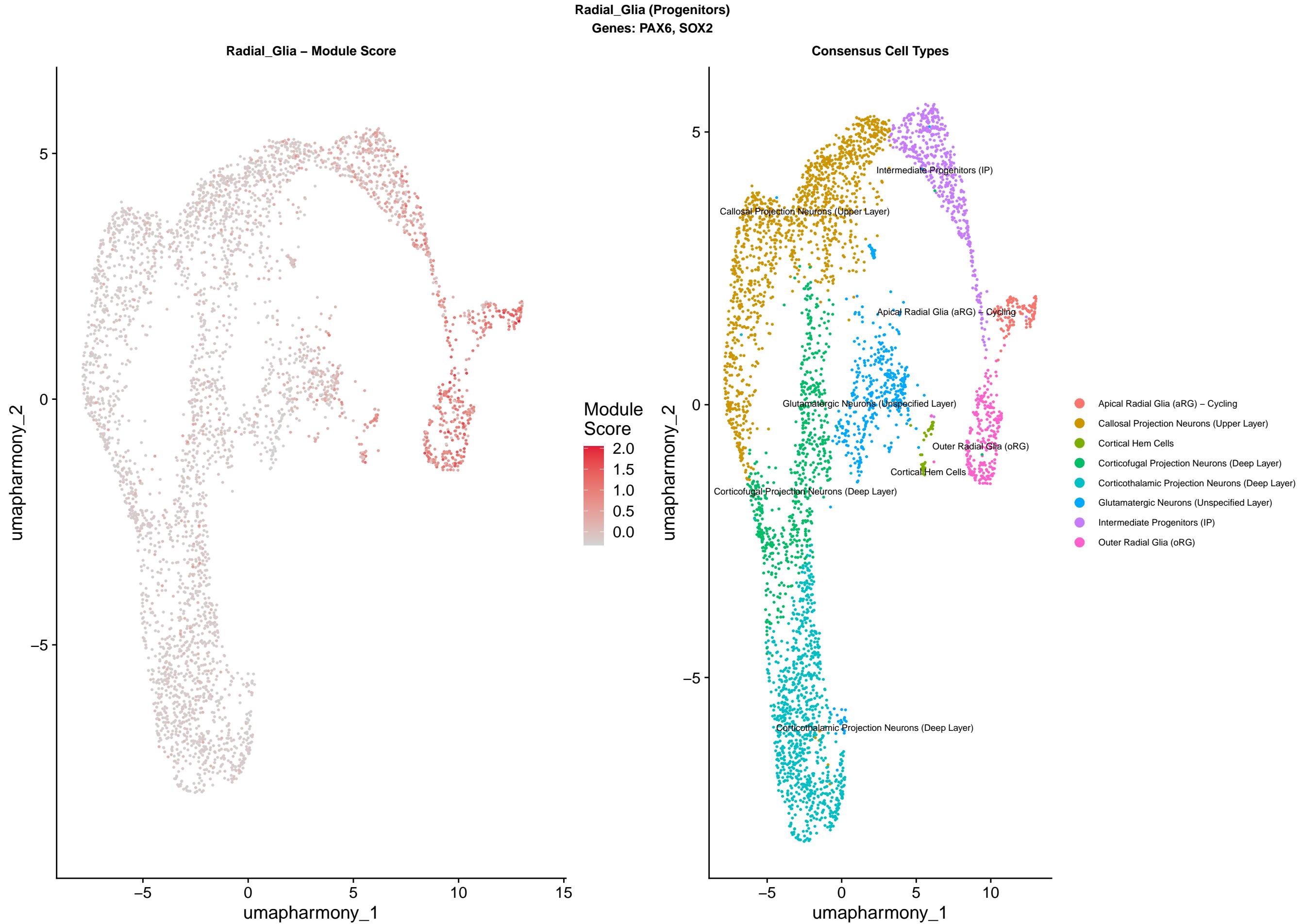
Categories: 3

Marker Sets: 10

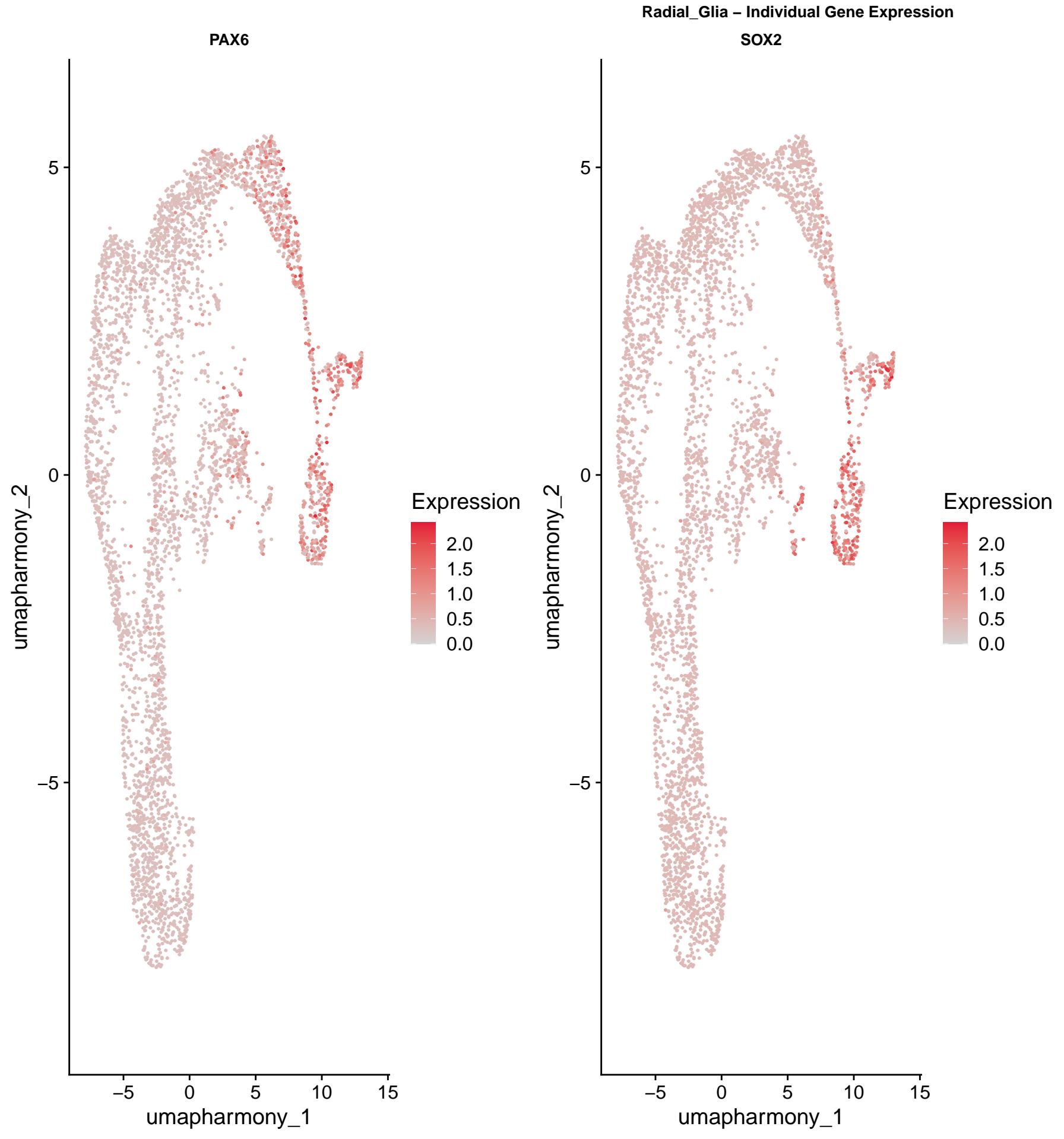
Total Genes Tested: 29

Genes Found: 28 (96.6%)

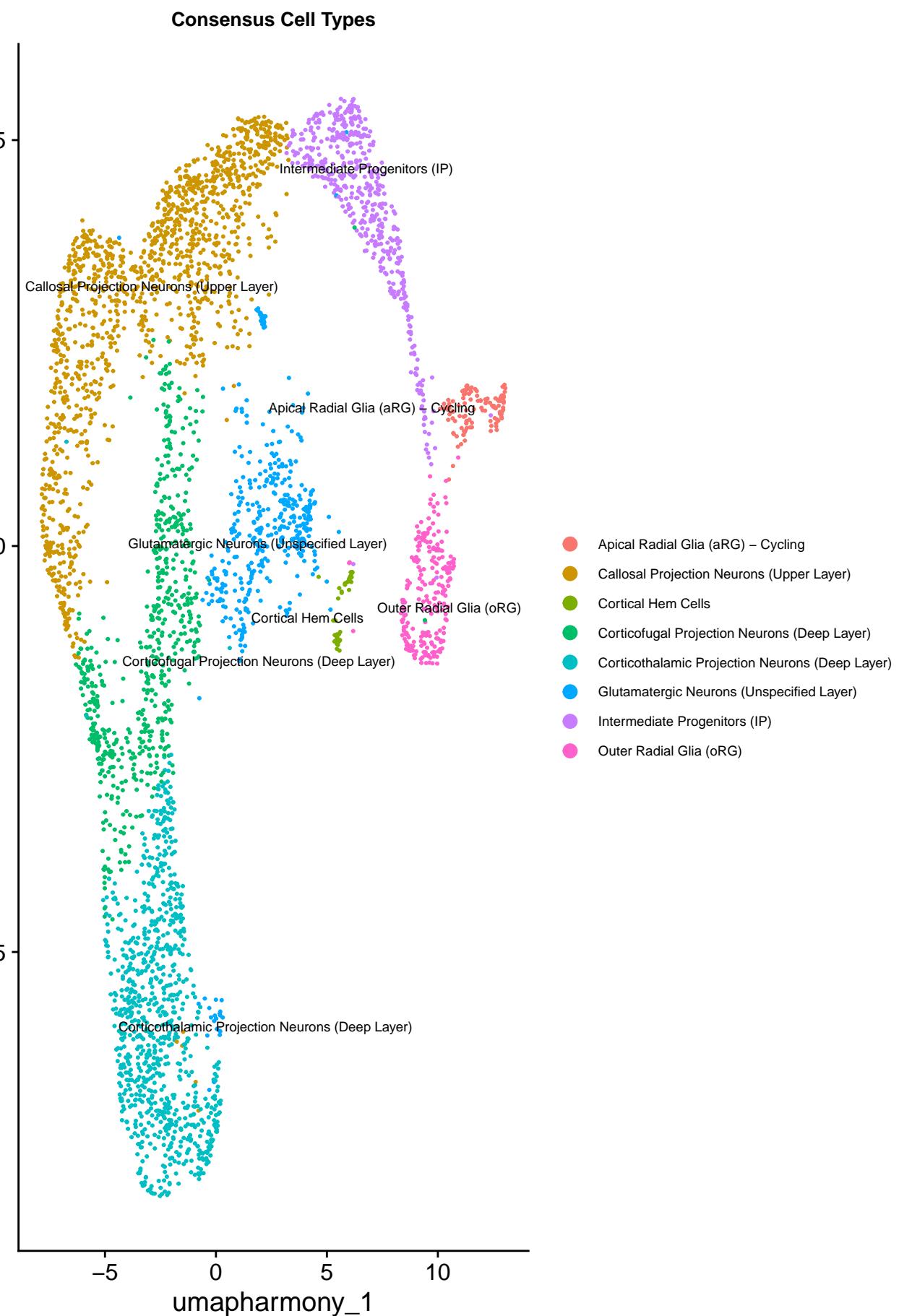
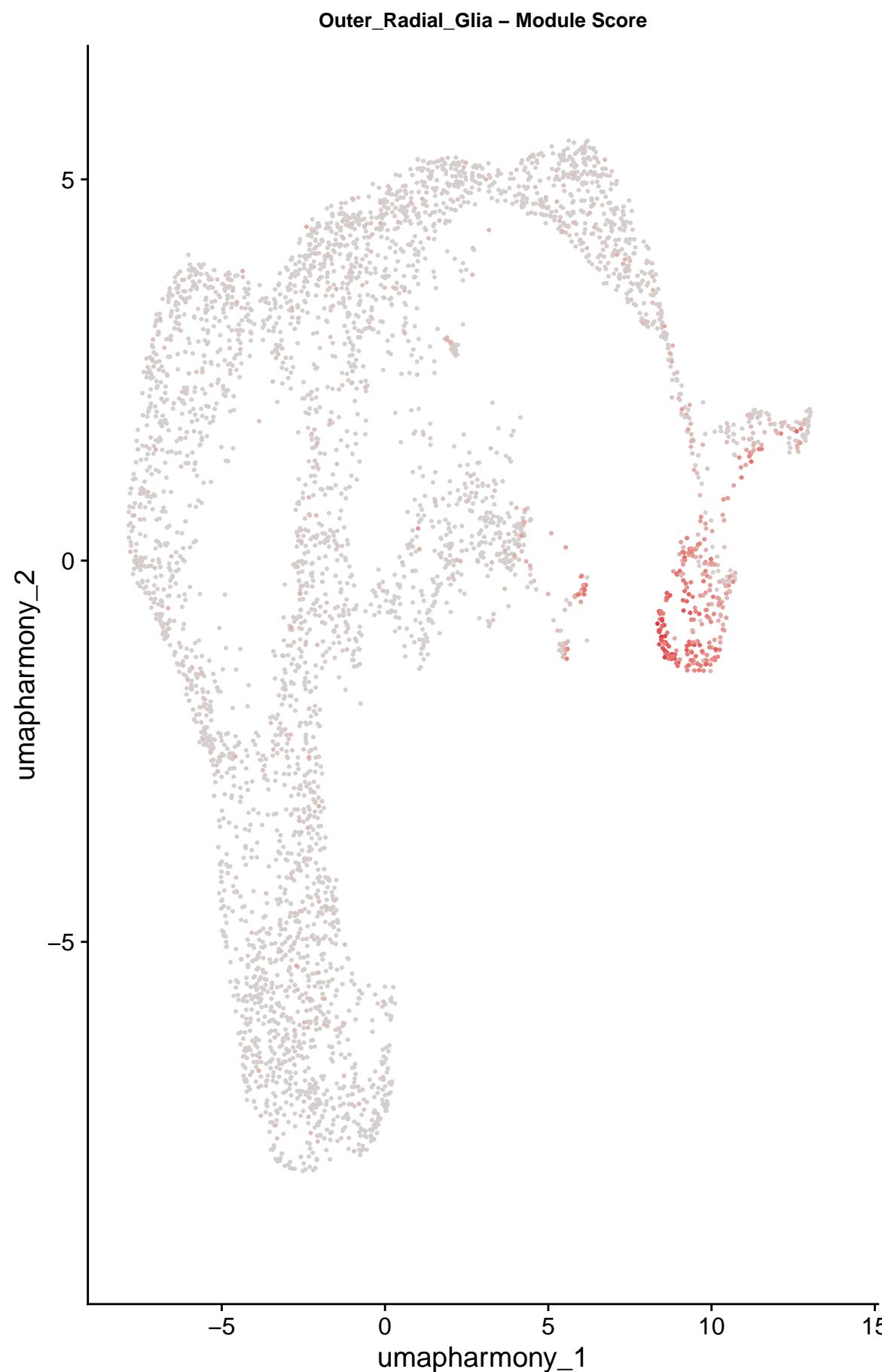
category	marker_set	gene_symbol
Interneurons	Interneurons	DLX1



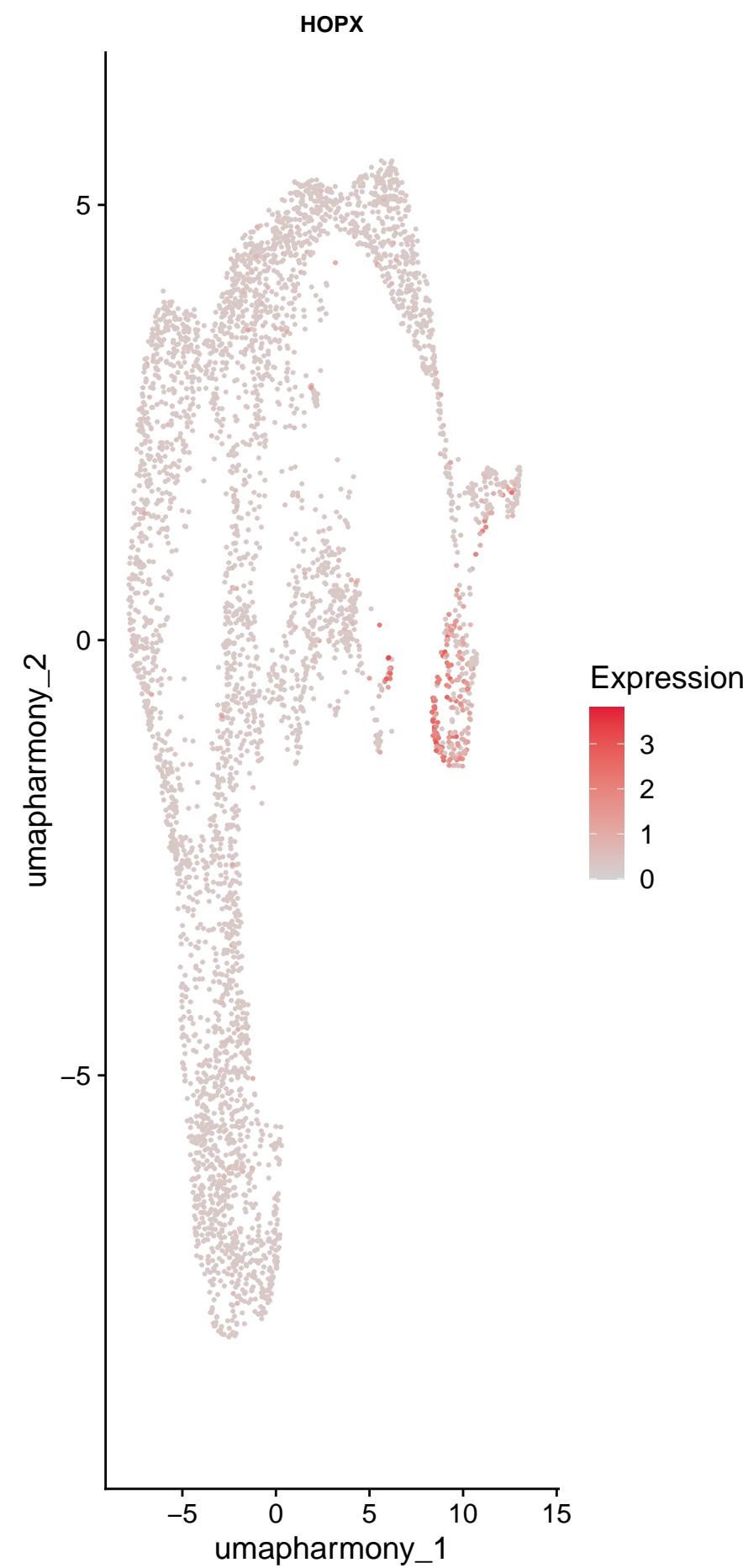
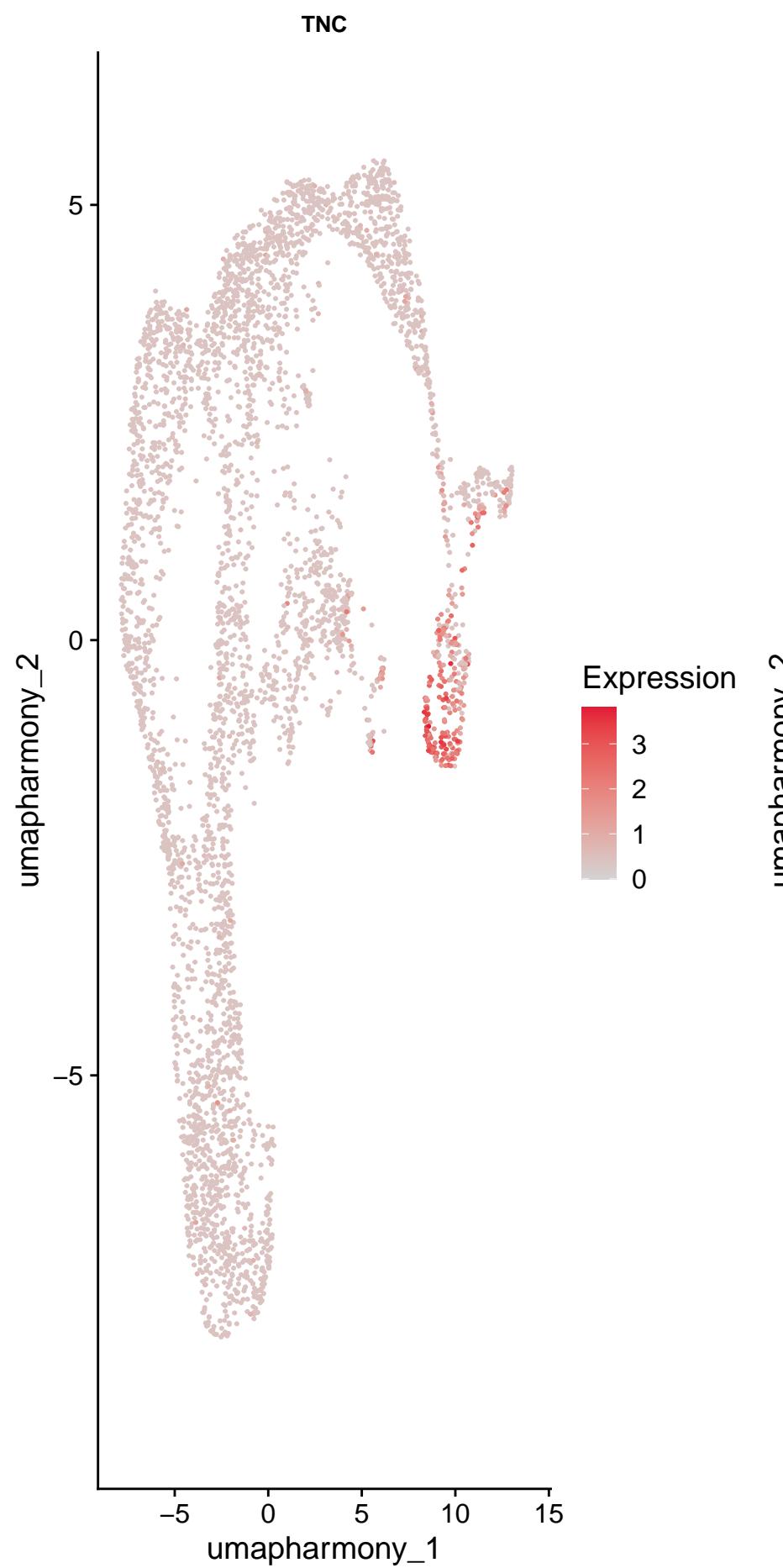
### Radial\_Glia – Individual Gene Expression



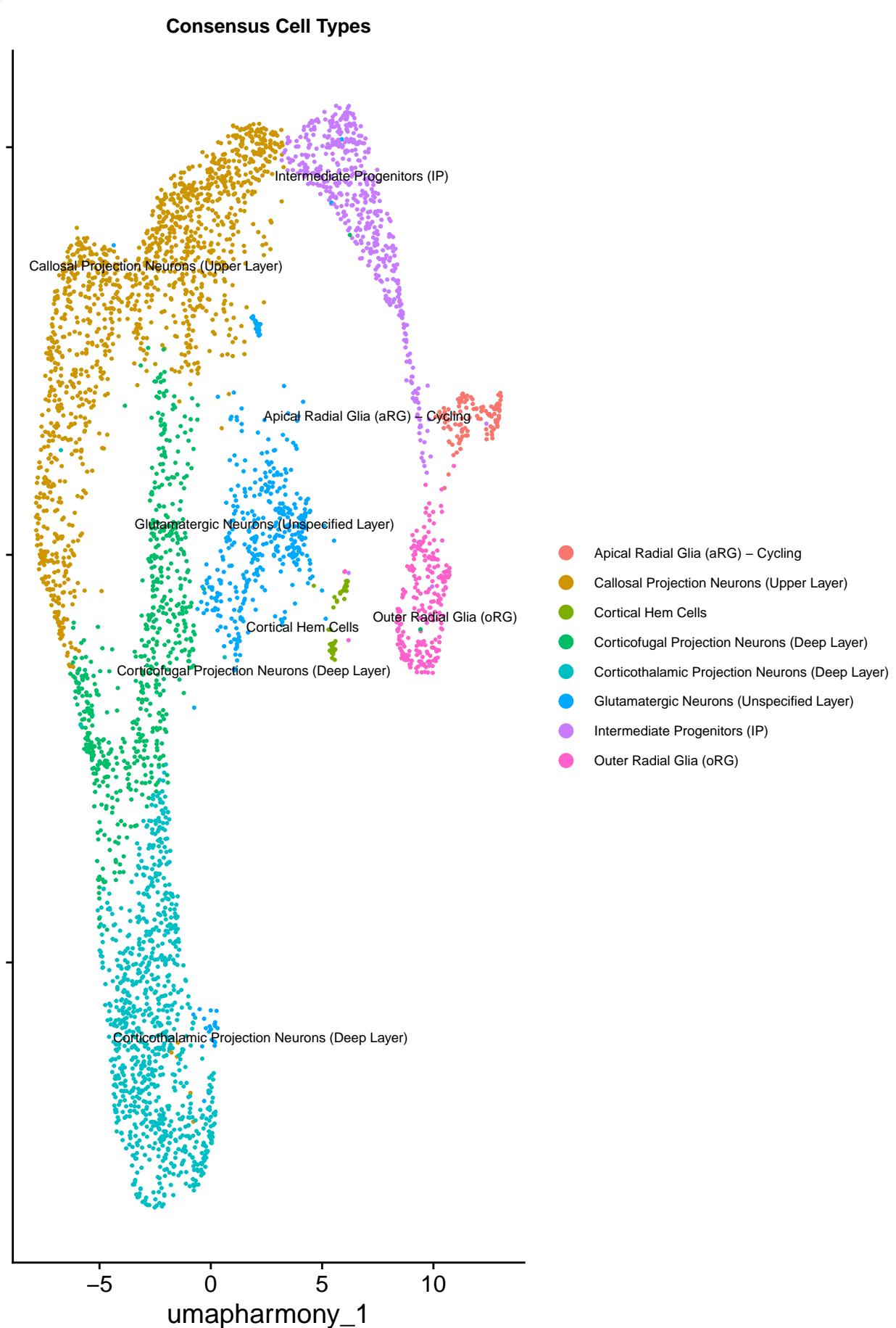
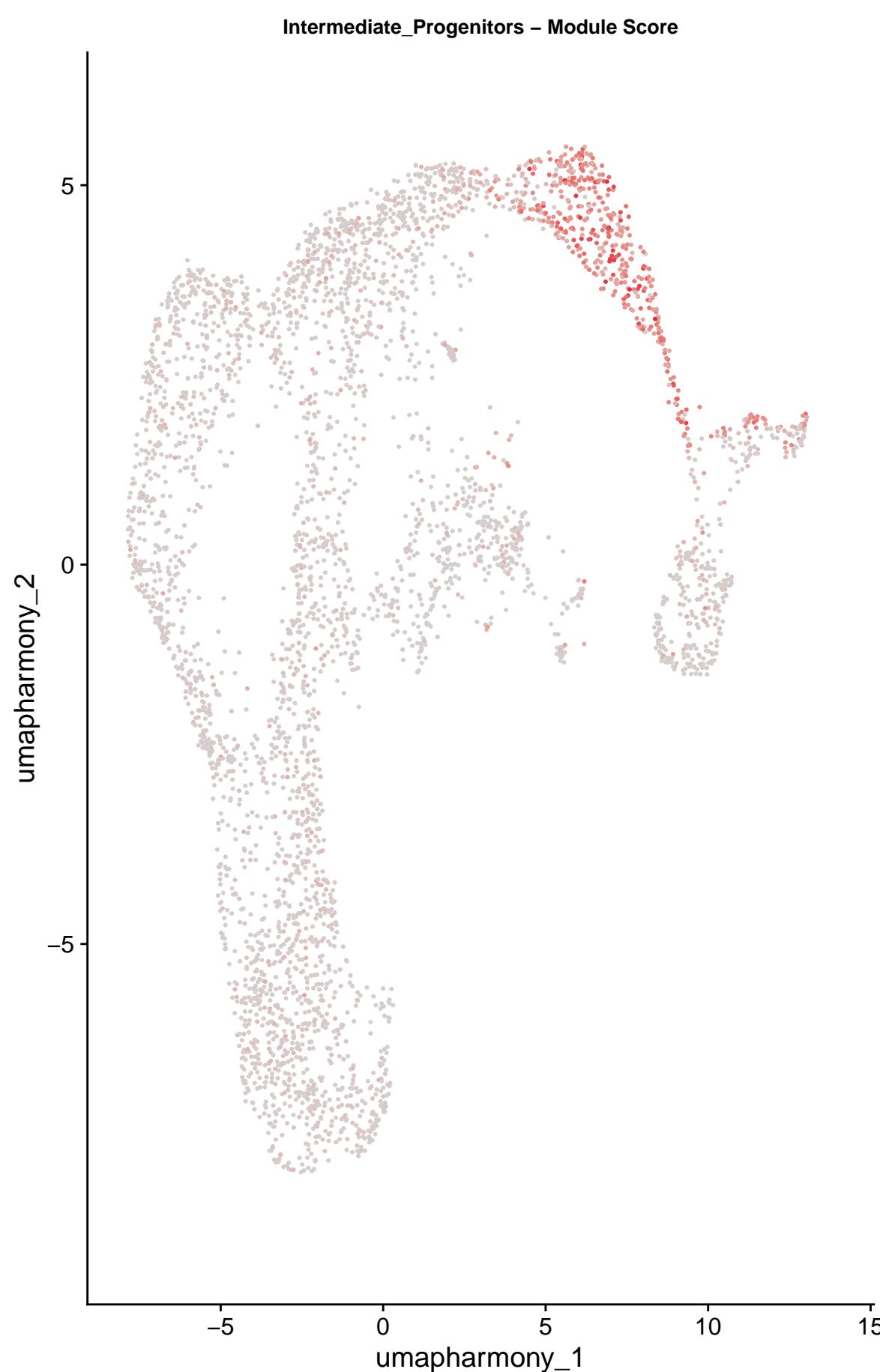
Outer\_Radial\_Glia (Progenitors)  
Genes: HOPX, TNC



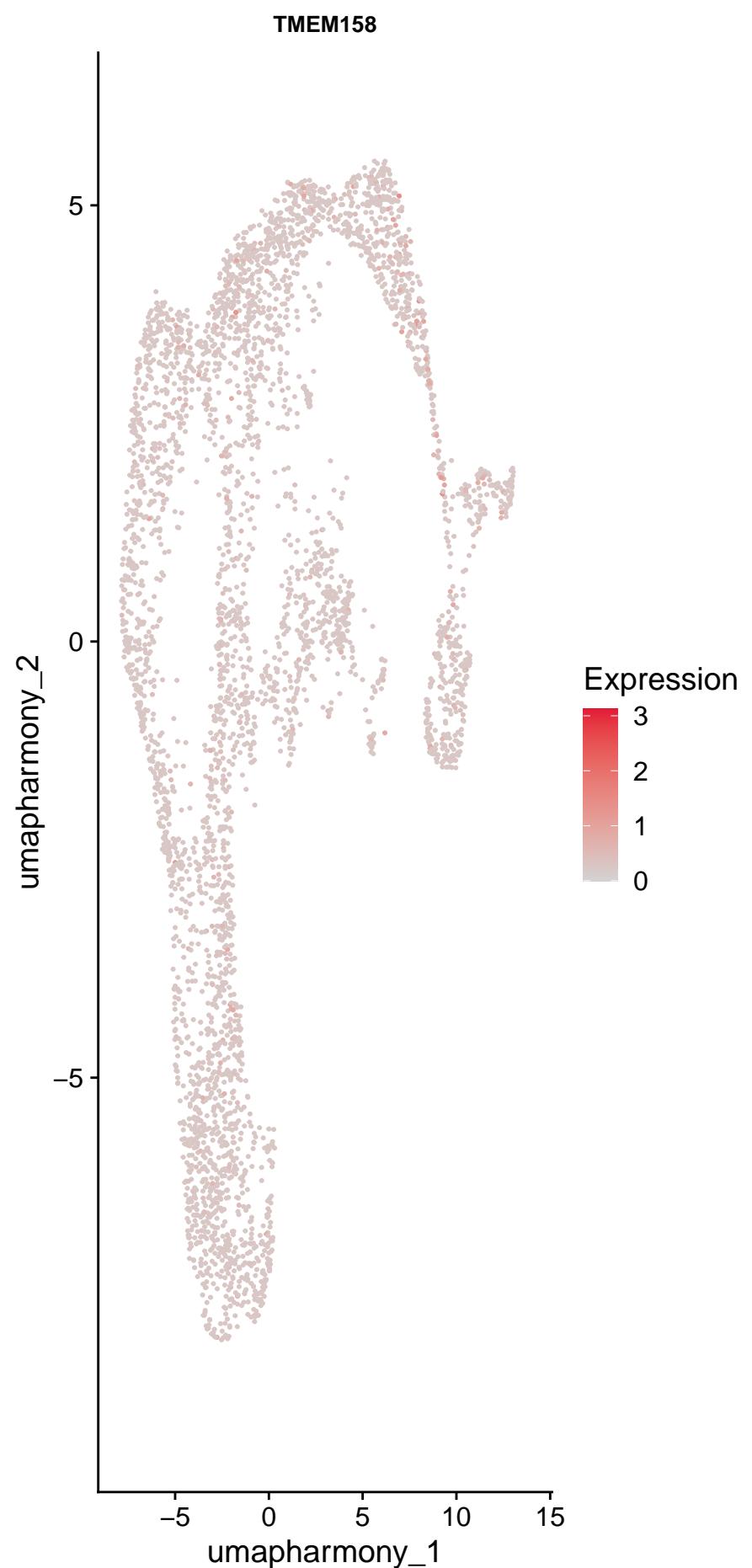
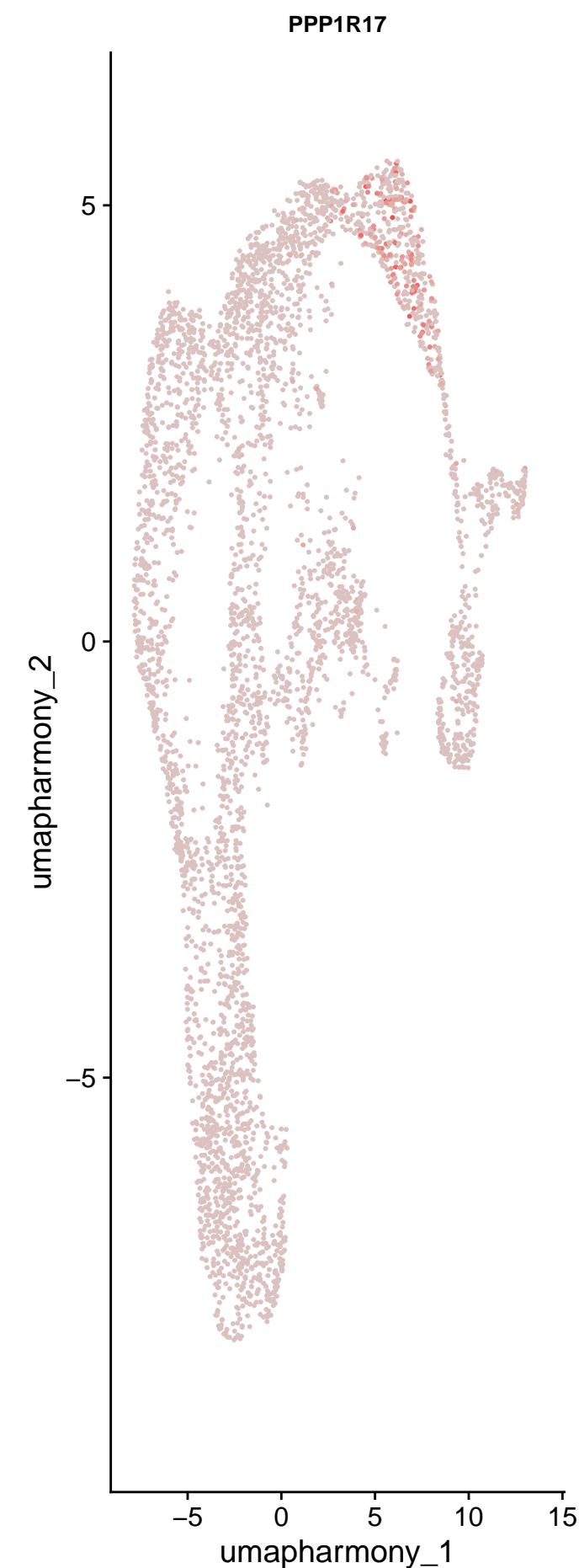
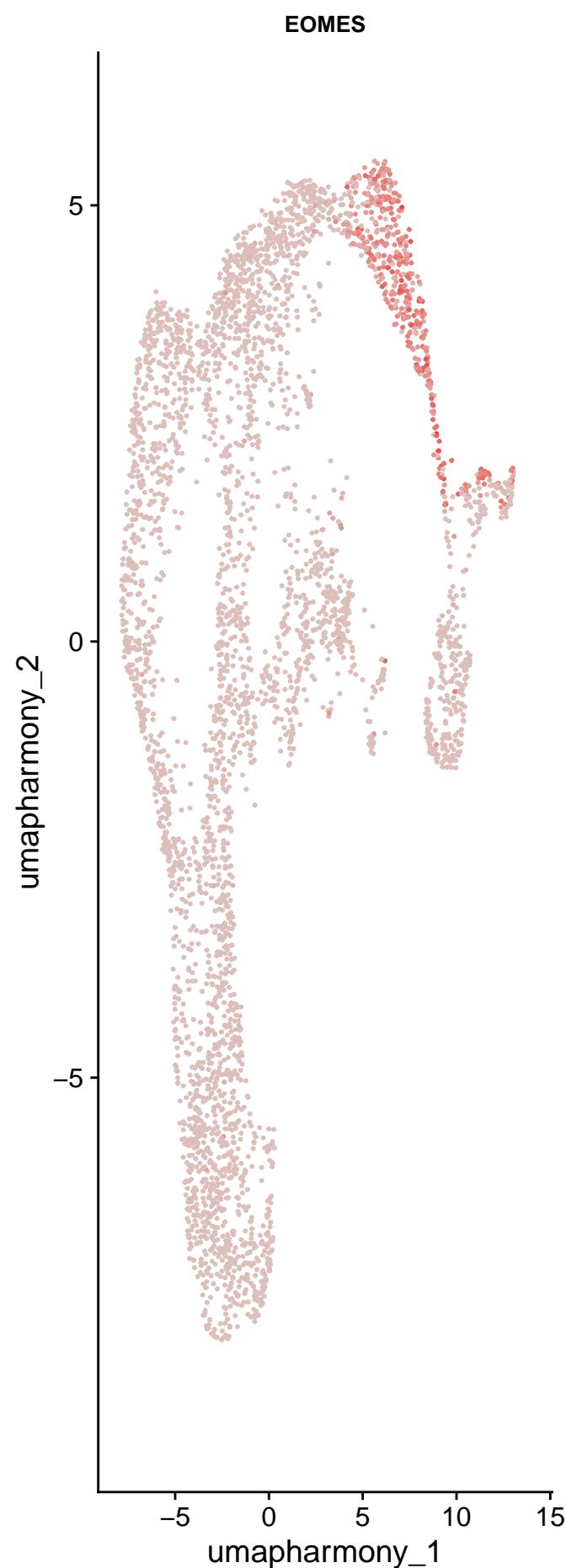
Outer\_Radial\_Glia – Individual Gene Expression



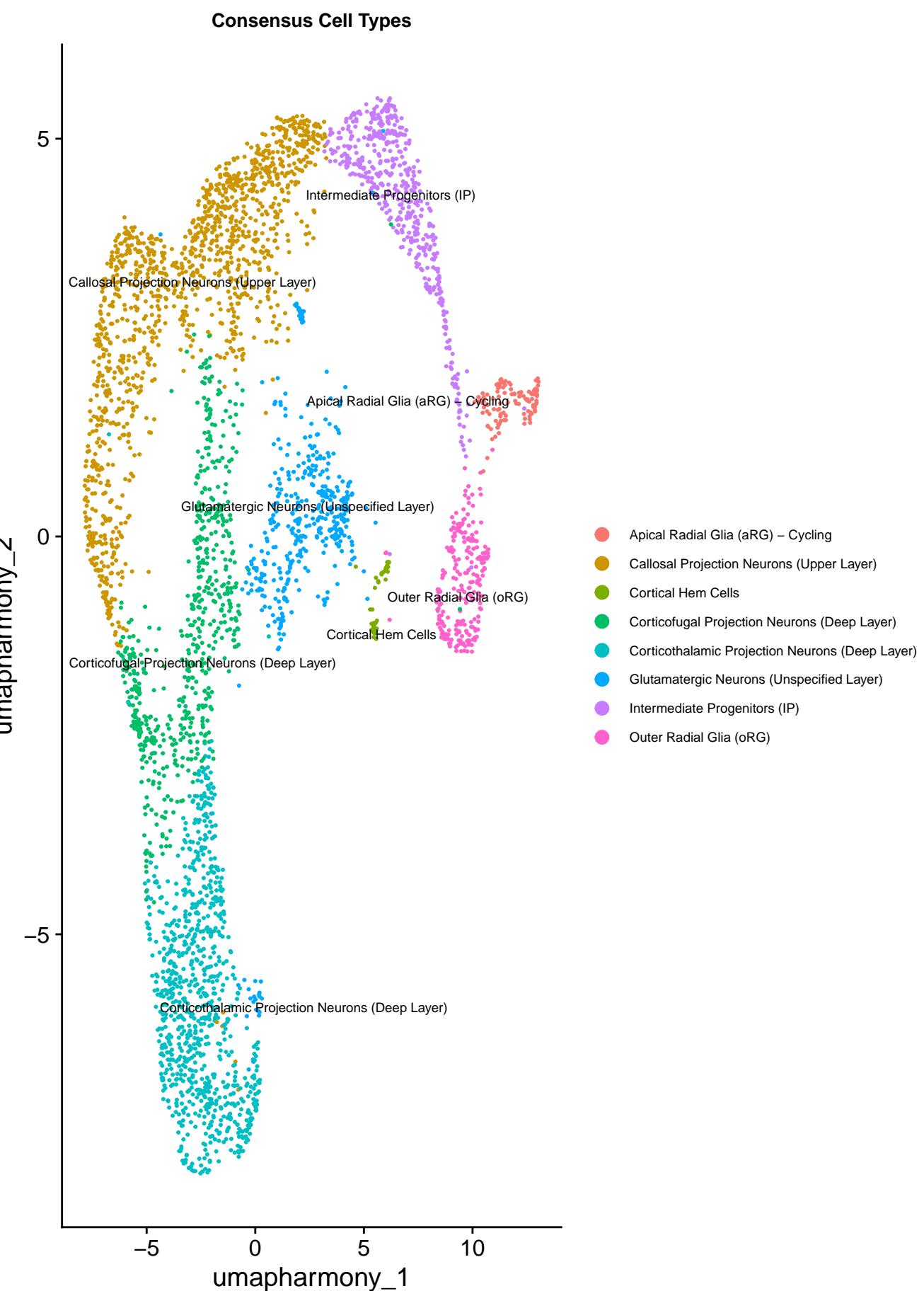
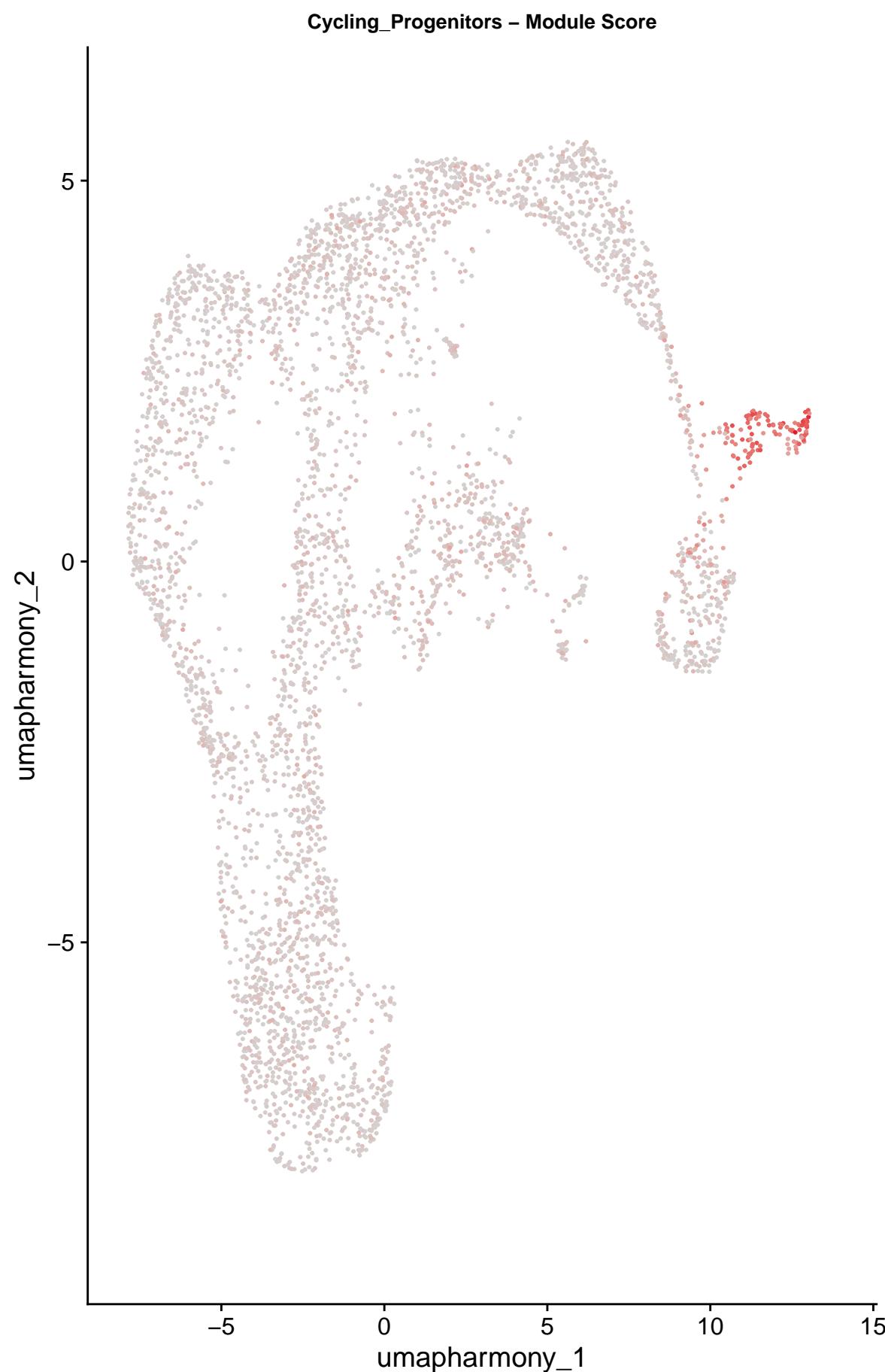
Intermediate\_Progenitors (Progenitors)  
Genes: EOMES, PPP1R17, TMEM158



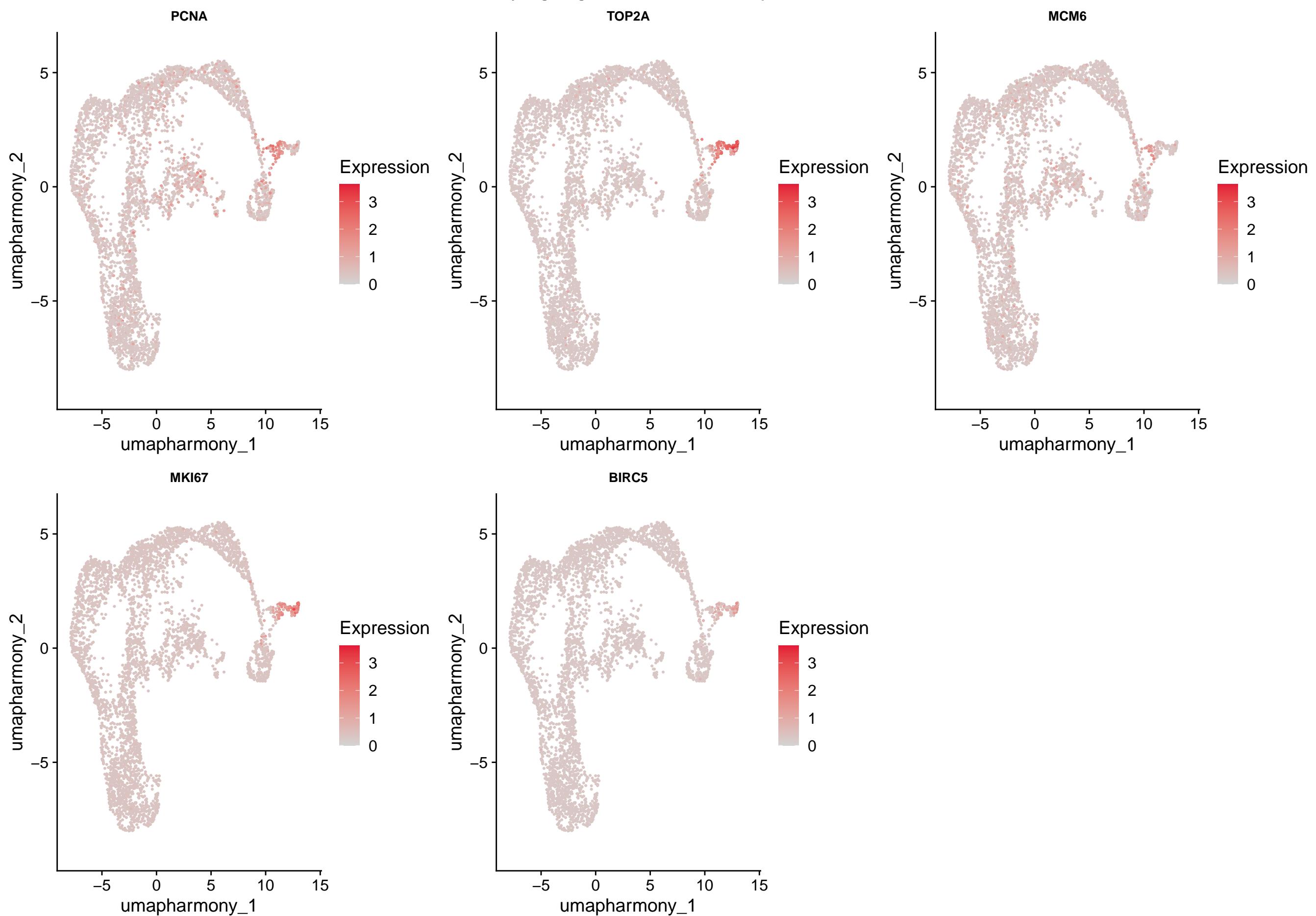
Intermediate\_Progenitors – Individual Gene Expression



**Cycling\_Progenitors (Progenitors)**  
Genes: MKI67, TOP2A, BIRC5, PCNA, MCM6



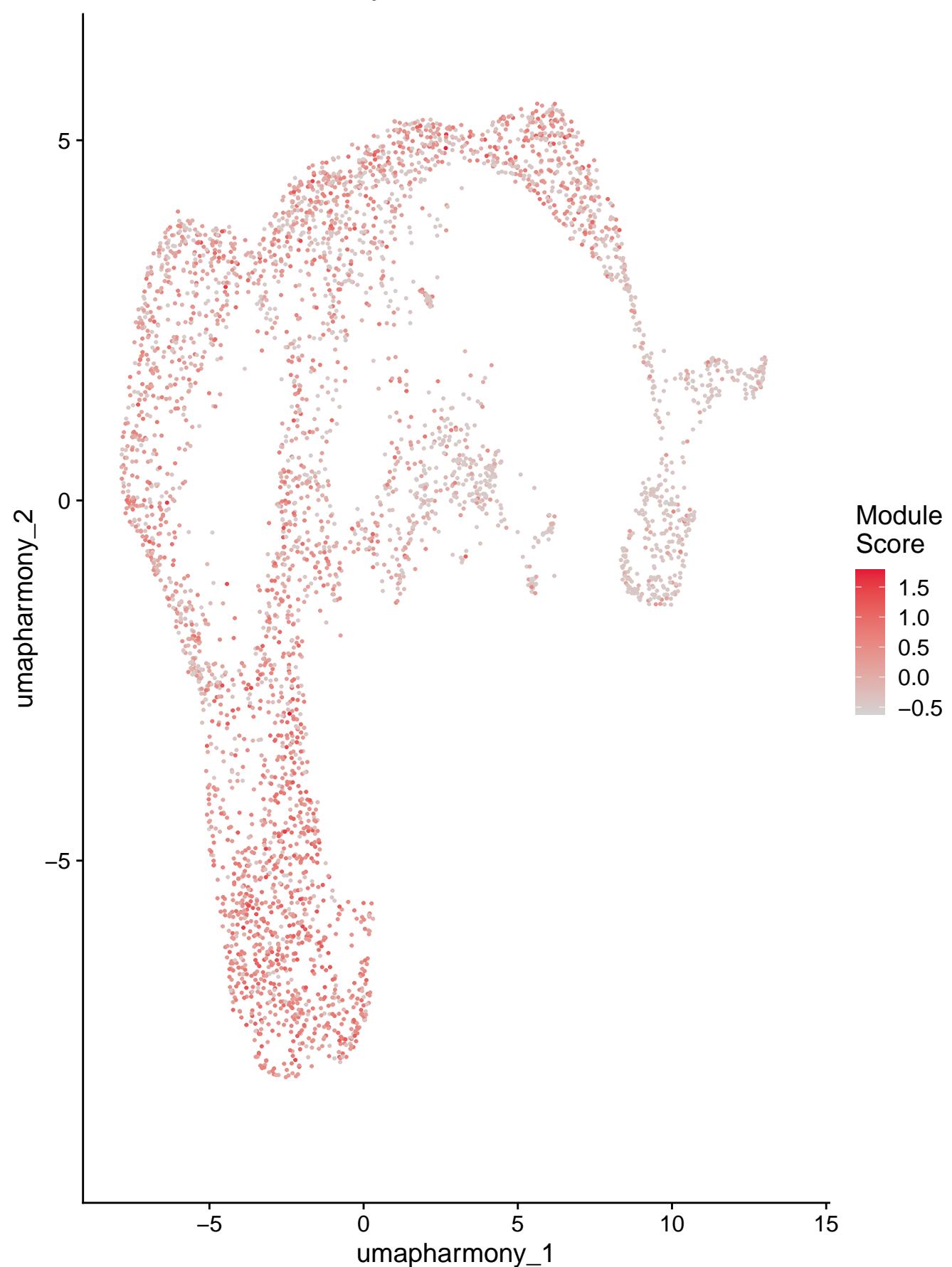
### Cycling\_Progenitors – Individual Gene Expression



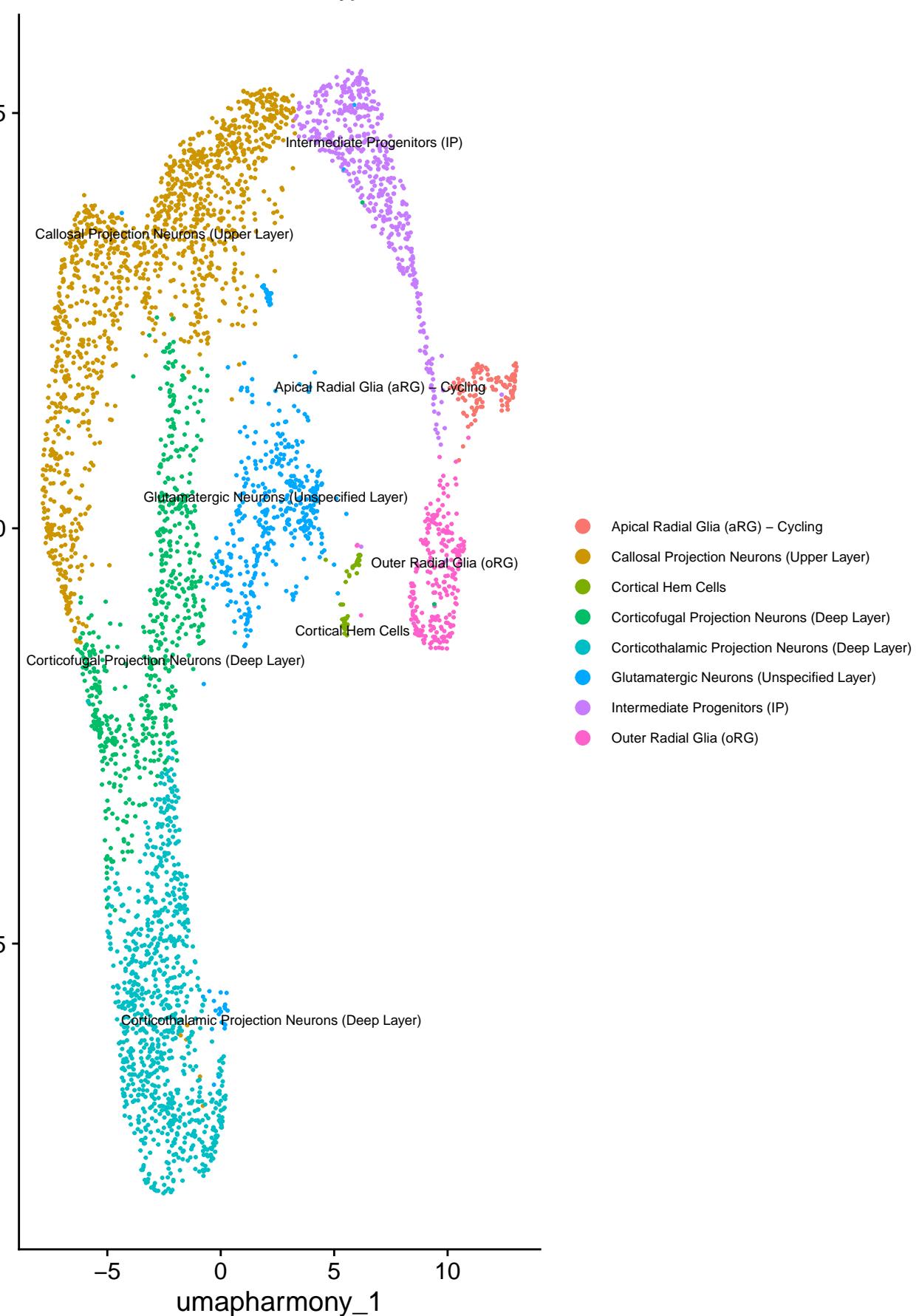
### Immature\_Projection\_Neurons (Projection\_Neurons)

Genes: TBR1

Immature\_Projection\_Neurons – Module Score



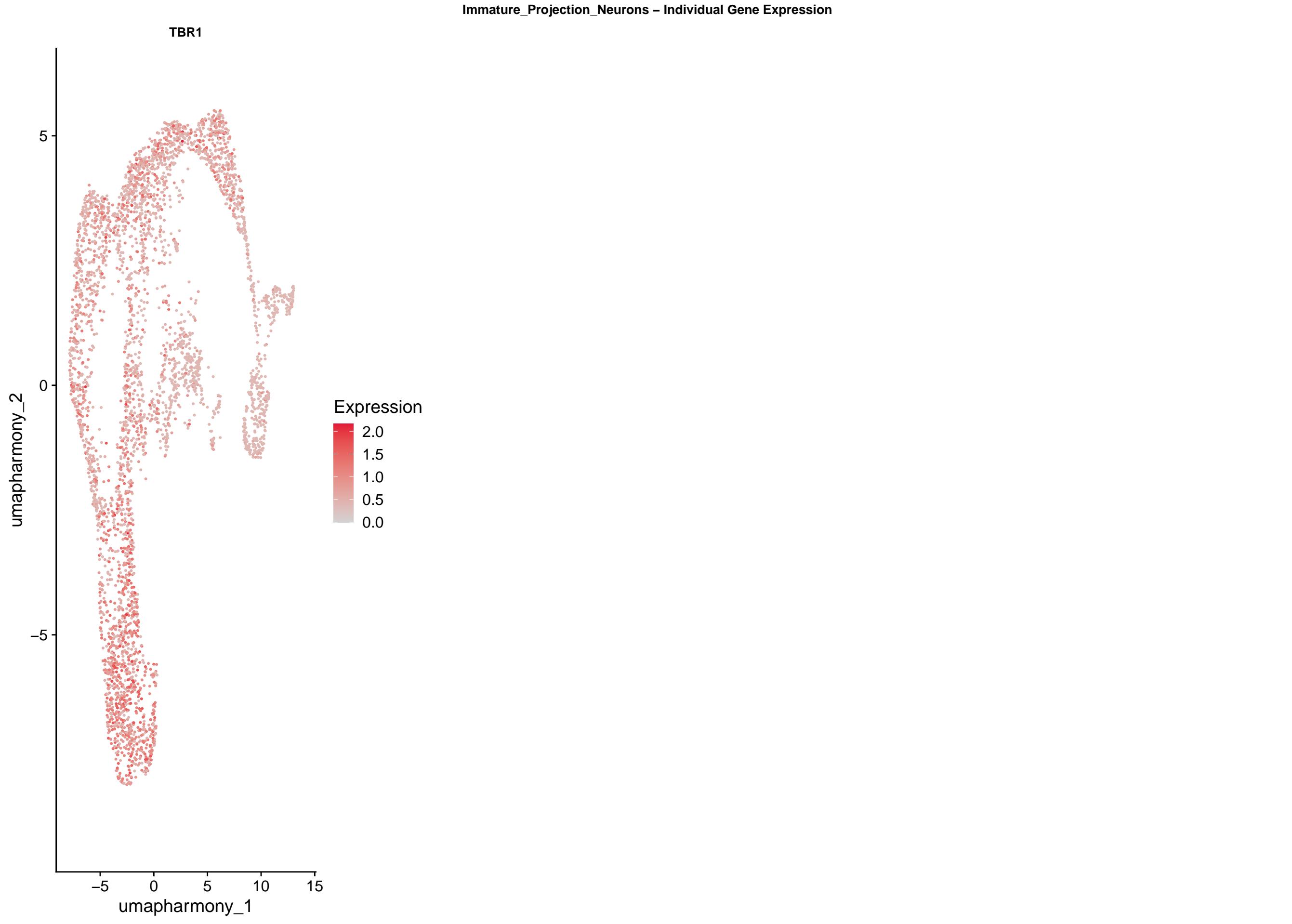
Consensus Cell Types



Module Score  
1.5  
1.0  
0.5  
0.0  
-0.5

- Apical Radial Glia (aRG) – Cycling
- Callosal Projection Neurons (Upper Layer)
- Cortical Hem Cells
- Corticofugal Projection Neurons (Deep Layer)
- Corticothalamic Projection Neurons (Deep Layer)
- Glutamatergic Neurons (Unspecified Layer)
- Intermediate Progenitors (IP)
- Outer Radial Glia (oRG)

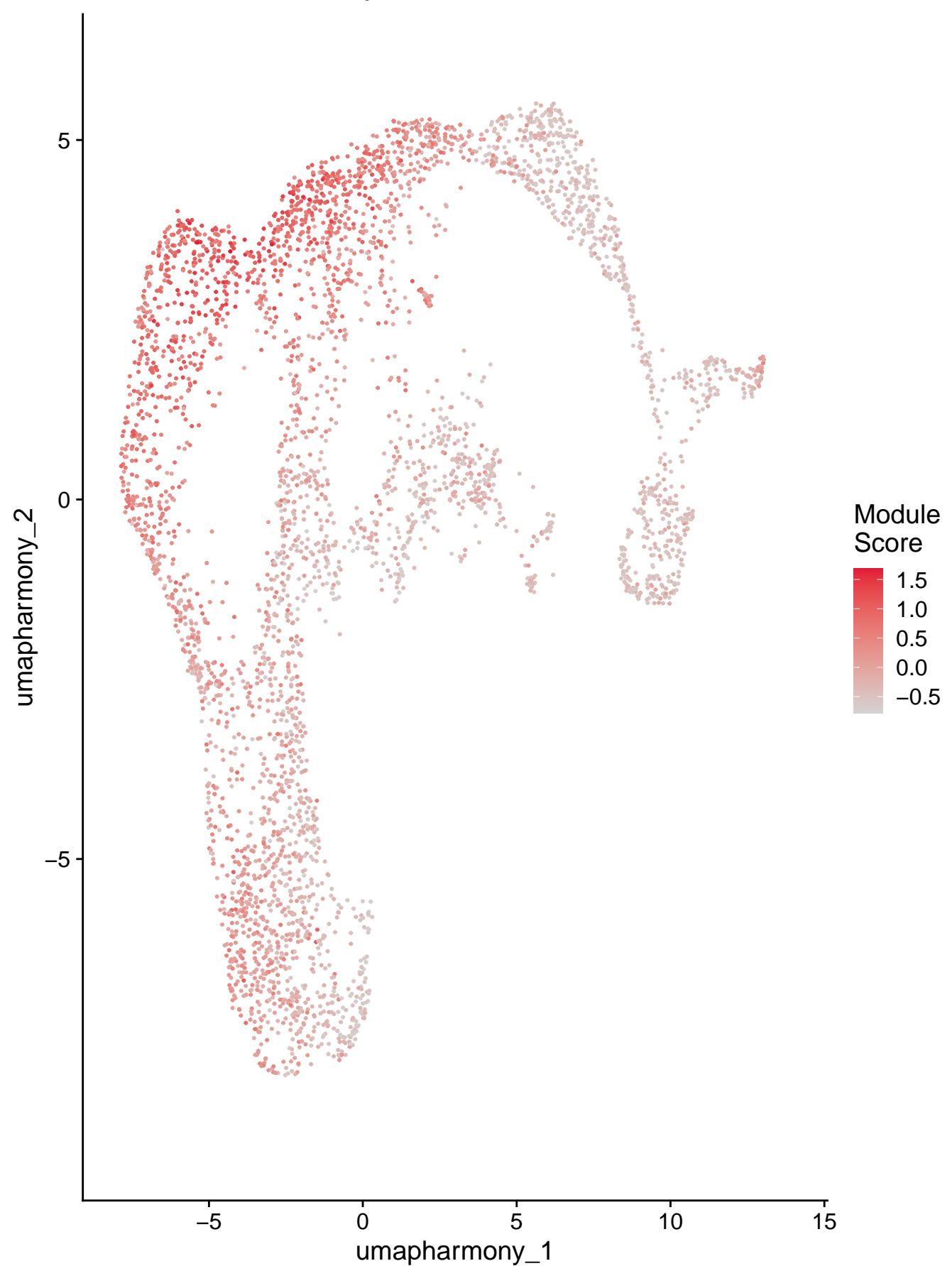
### Immature\_Projection\_Neurons – Individual Gene Expression



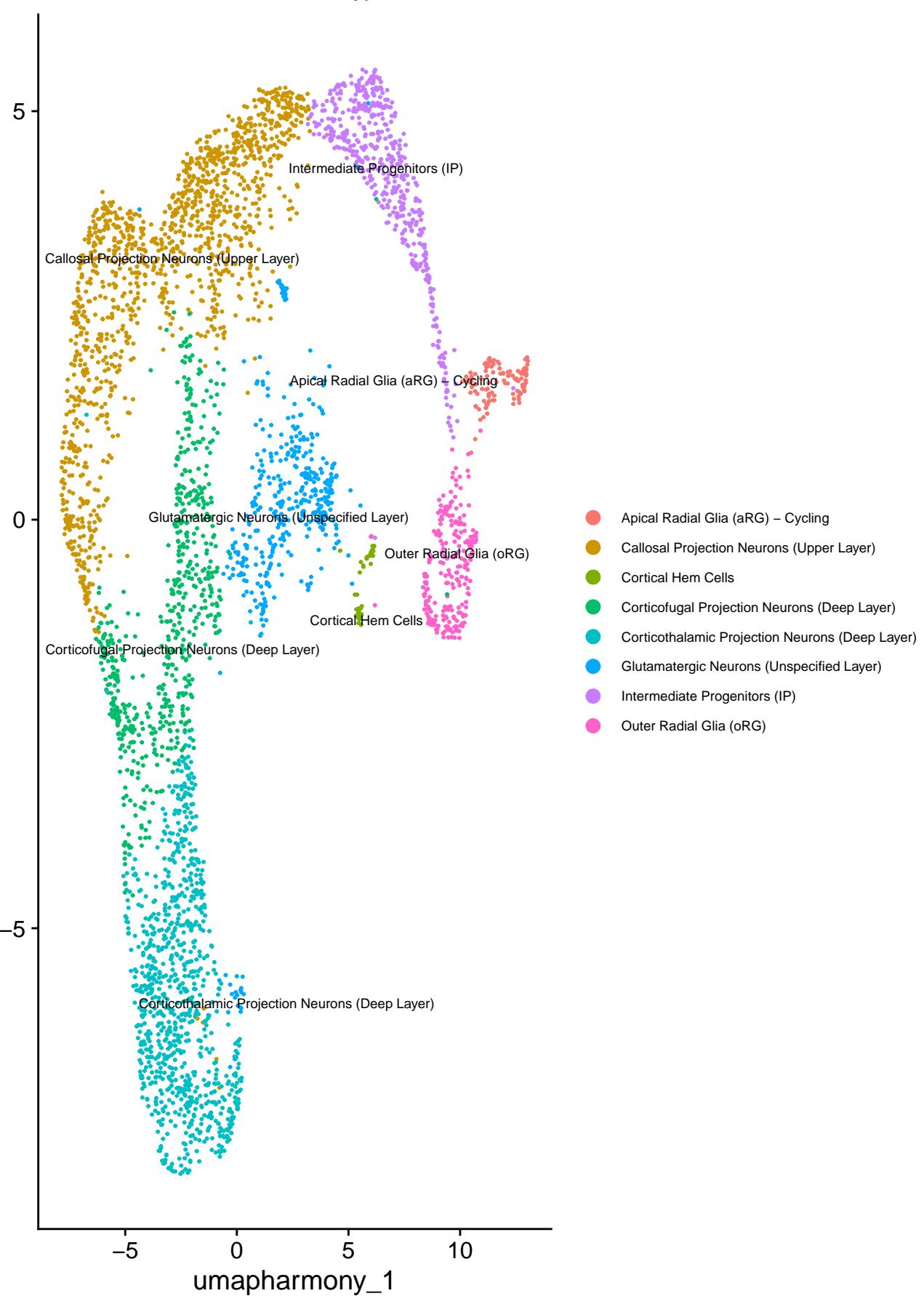
### Callosal\_Projection\_Neurons (Projection\_Neurons)

Genes: SATB2, INHBA, FRMD4B

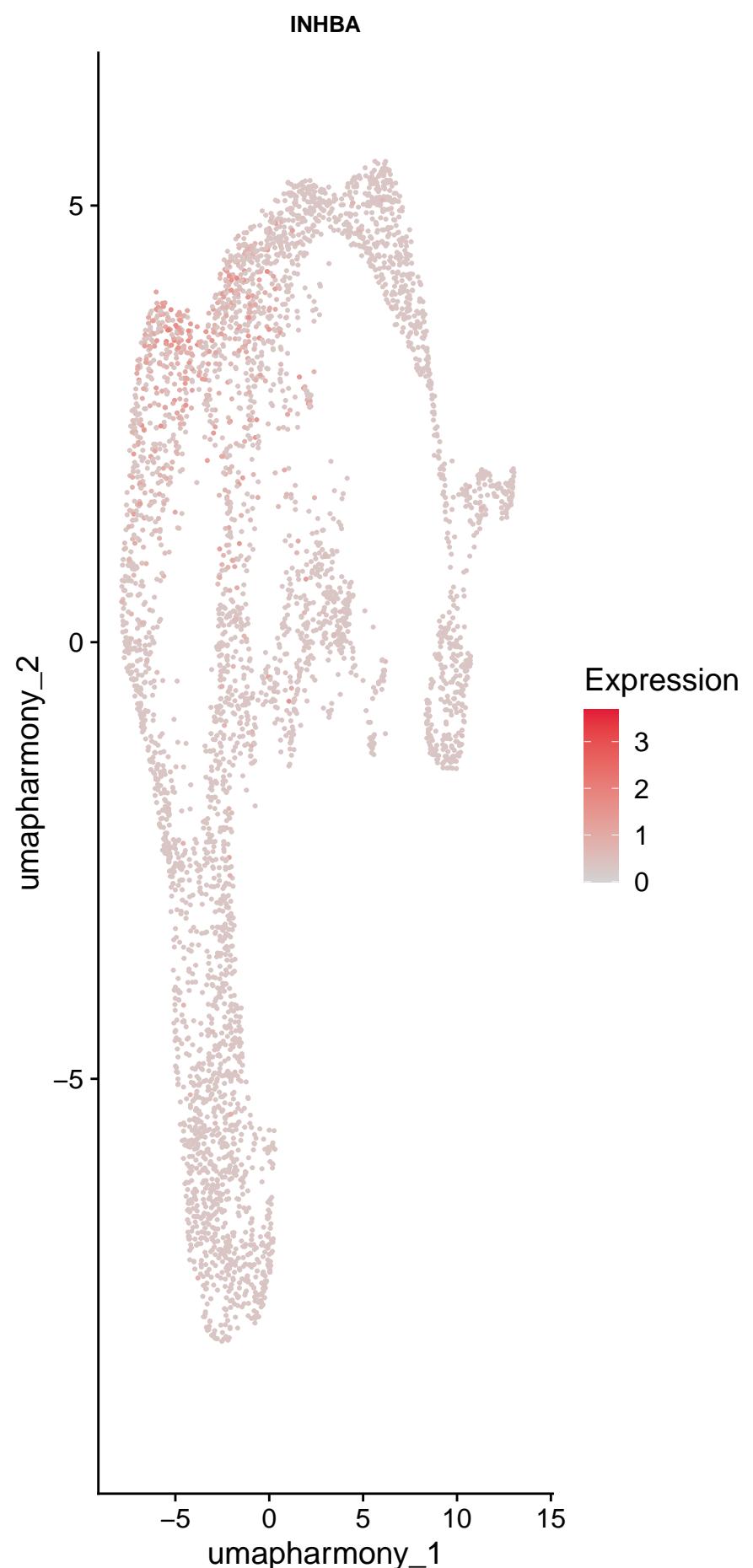
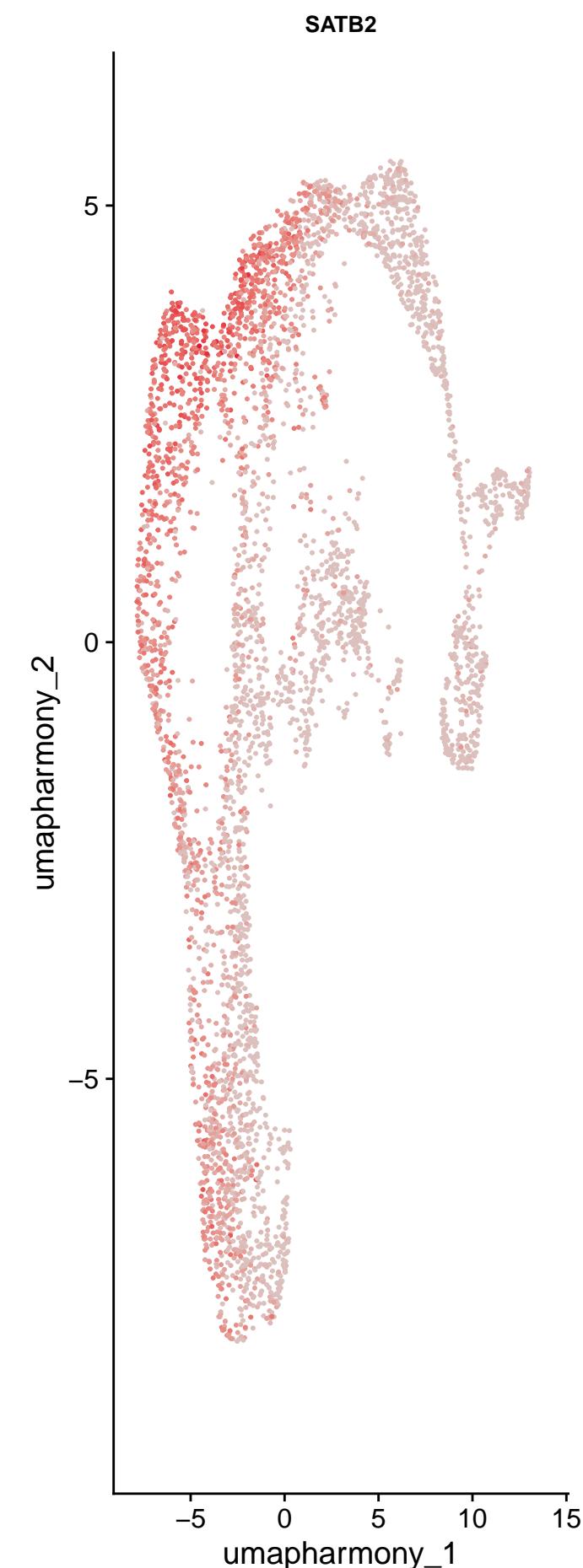
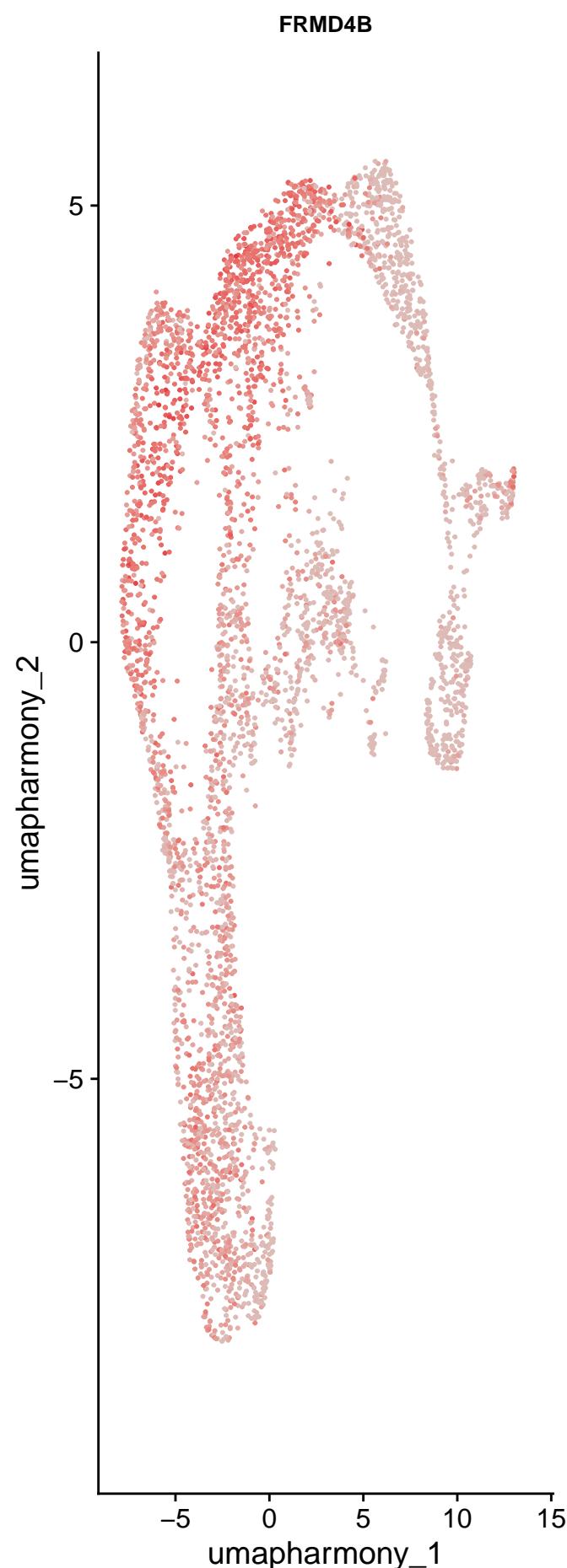
Callosal\_Projection\_Neurons – Module Score



Consensus Cell Types



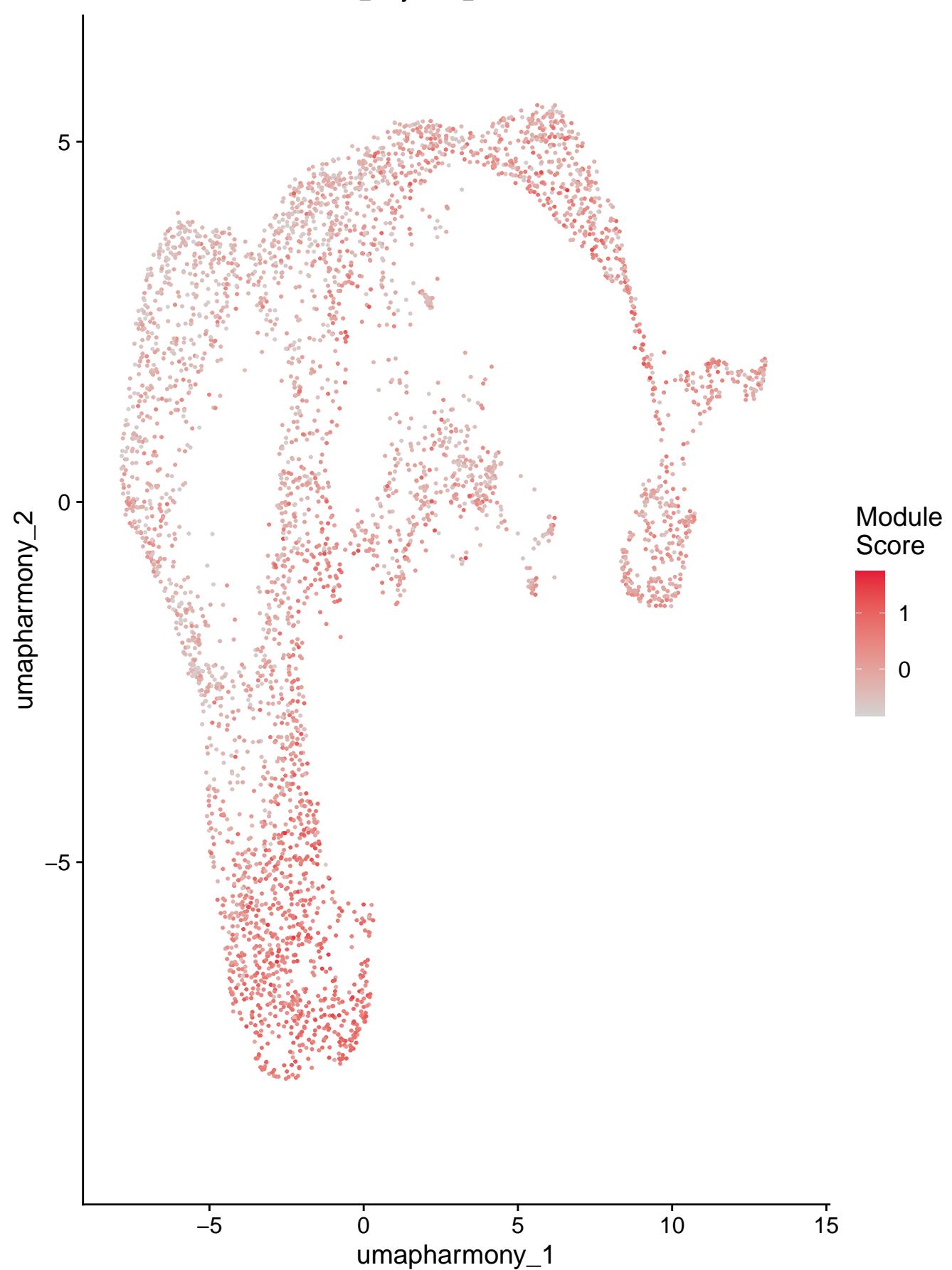
Callosal\_Projection\_Neurons – Individual Gene Expression



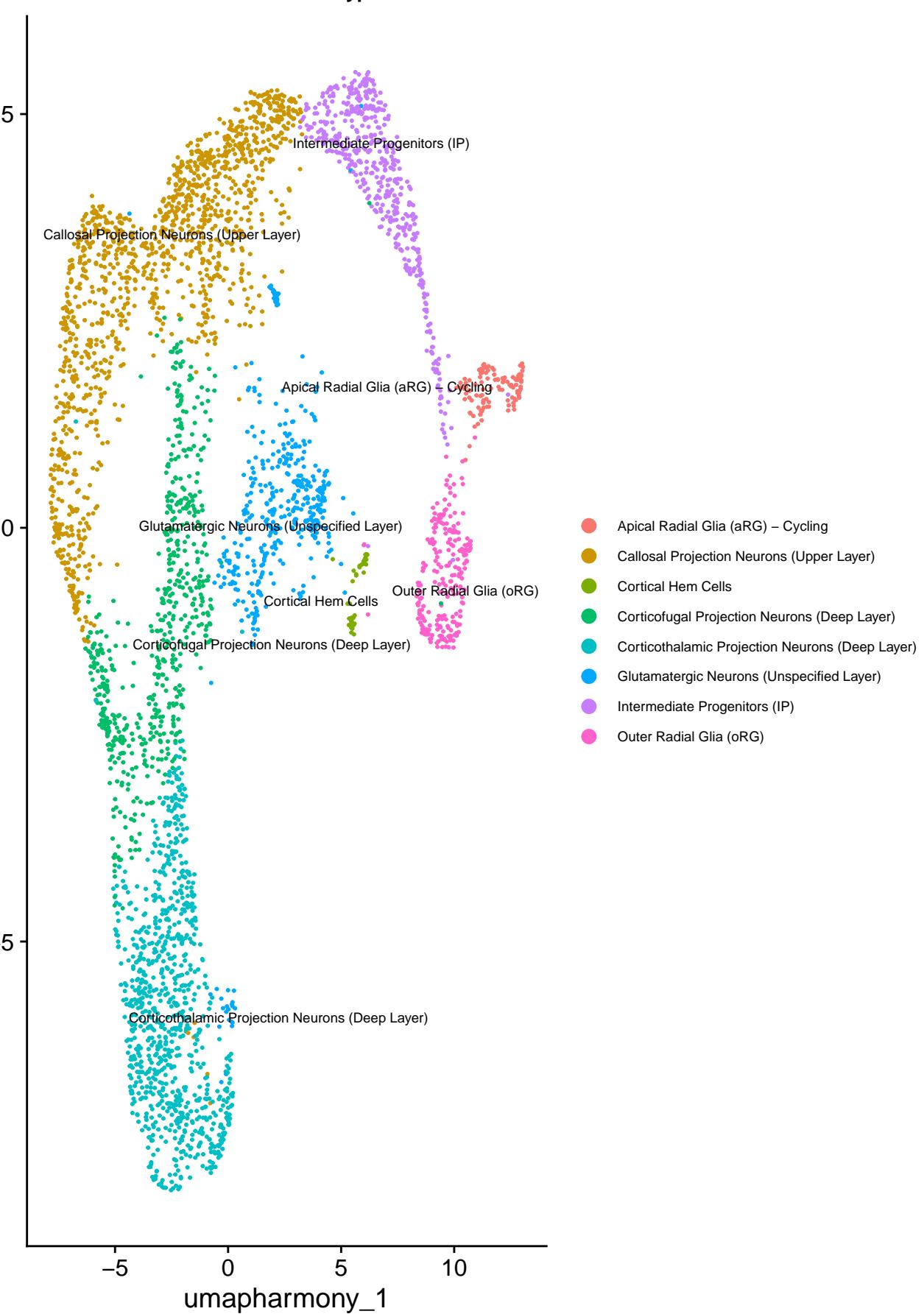
### Corticothalamic\_Projection\_Neurons (Projection\_Neurons)

Genes: ZFPM2, TBR1

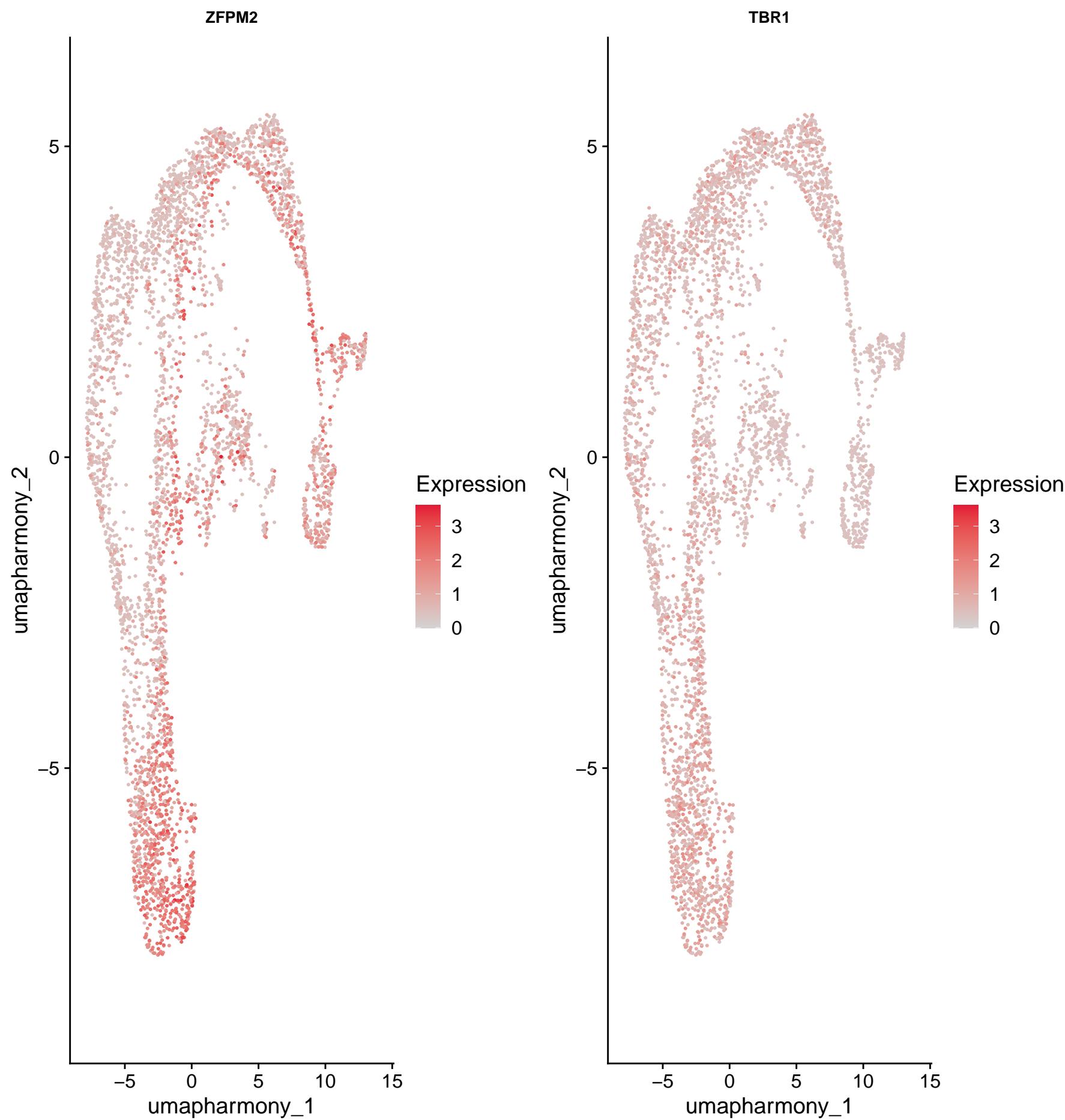
Corticothalamic\_Projection\_Neurons – Module Score



Consensus Cell Types

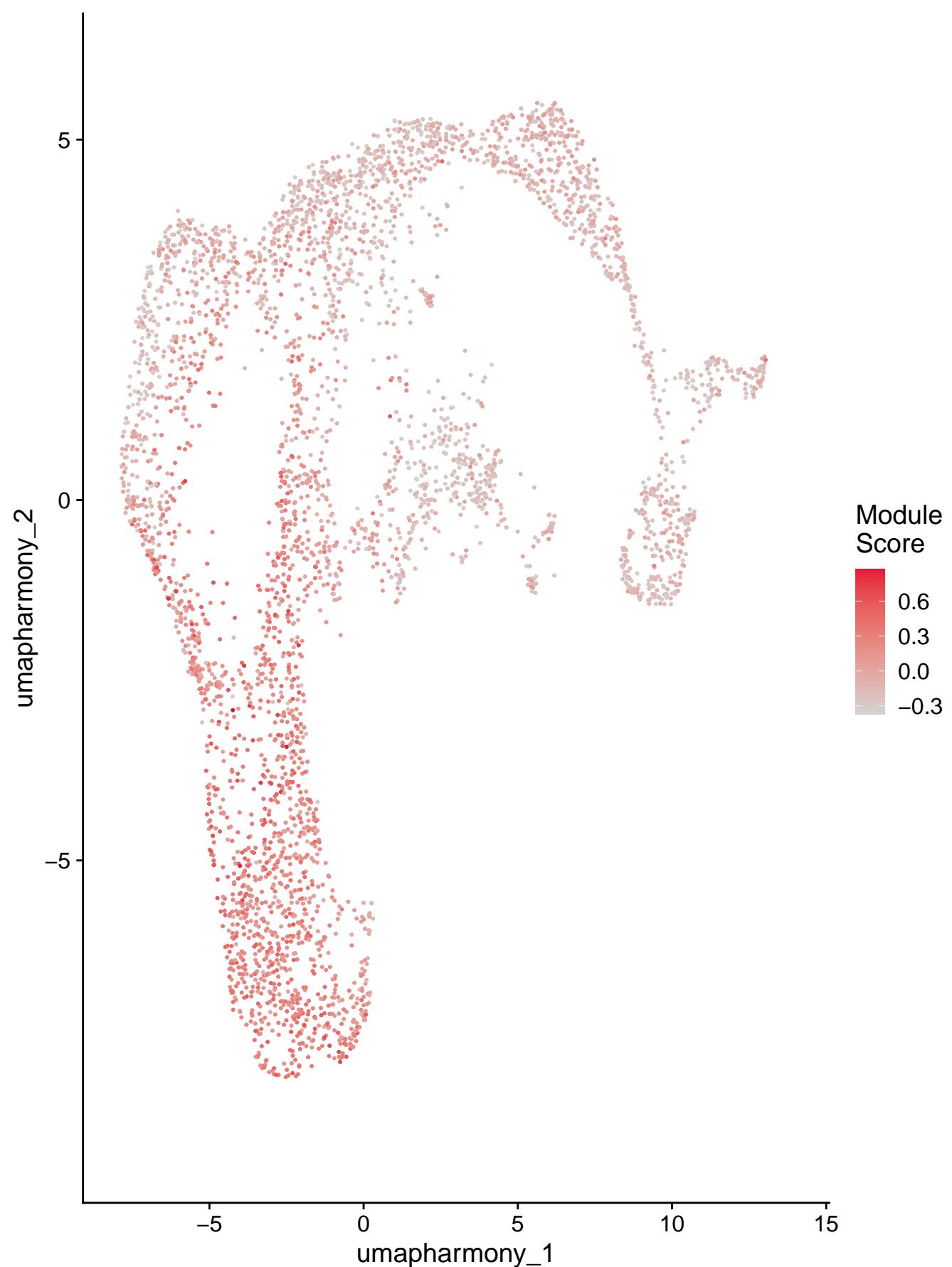


Corticothalamic\_Projection\_Neurons – Individual Gene Expression

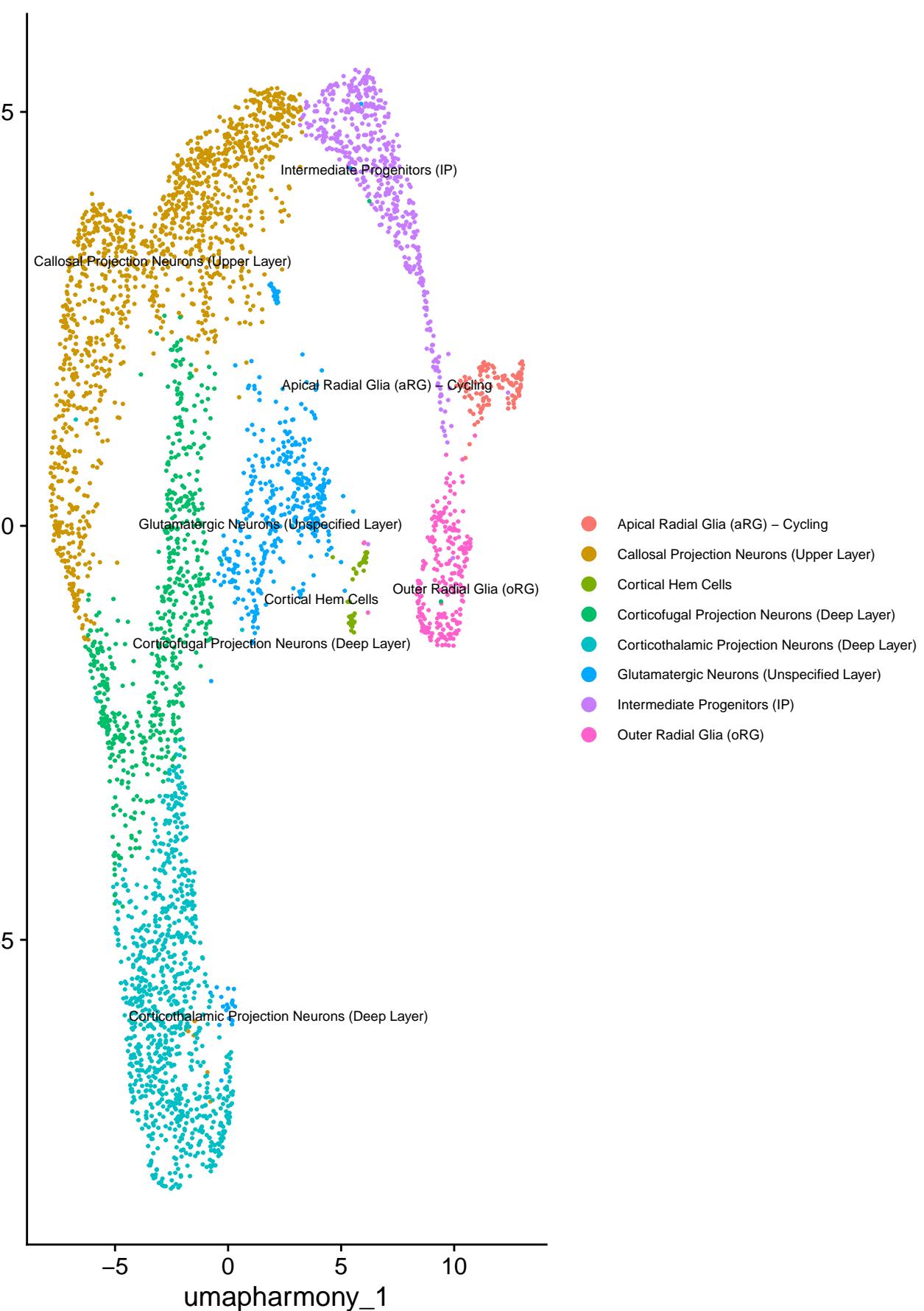


Corticothalamic\_Projection\_Neurons (Projection\_Neurons)  
Genes: BCL11B, CHRM1, CHRM2, CHRM4, CHRM5, TLE4

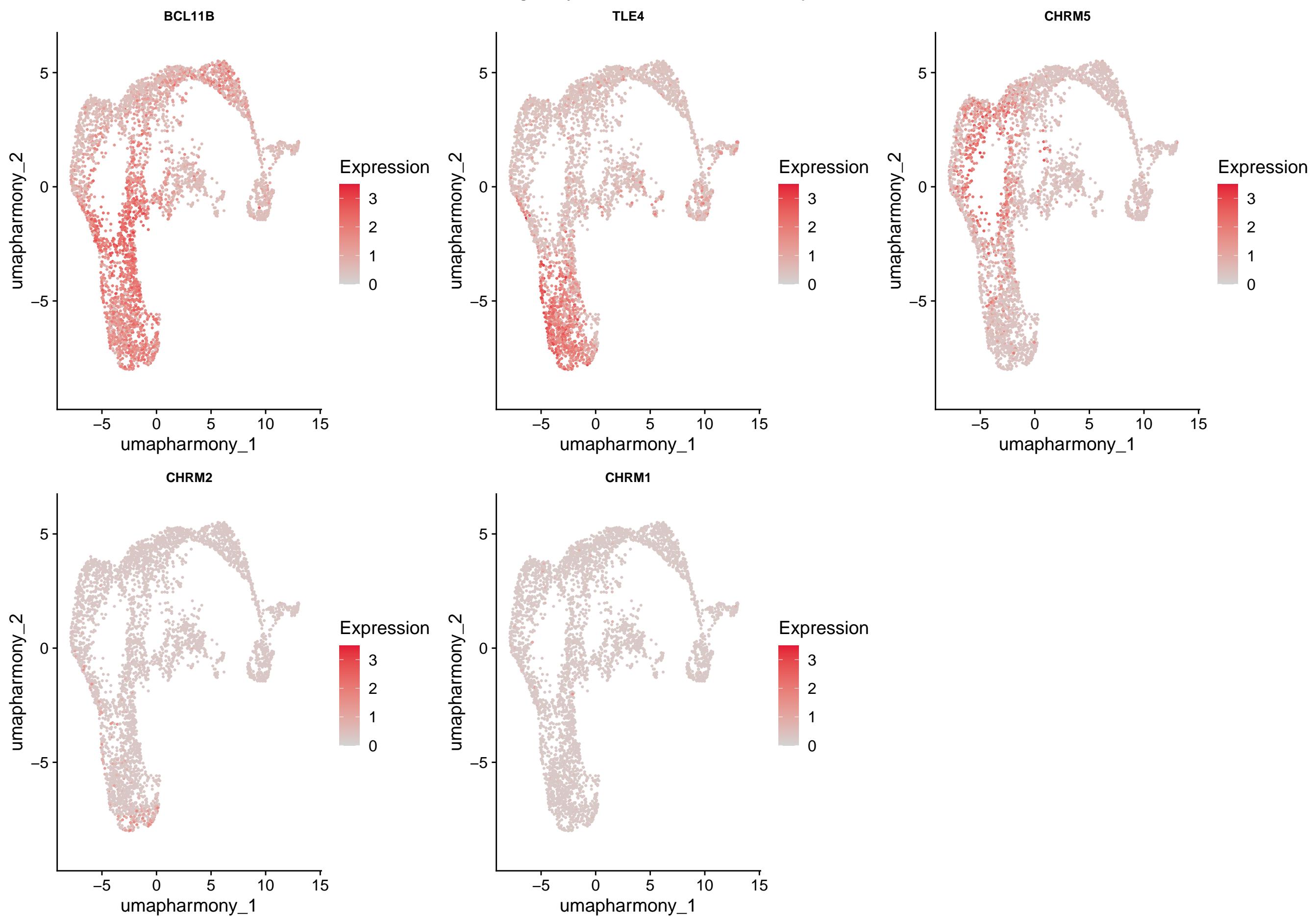
Corticothalamic\_Projection\_Neurons – Module Score



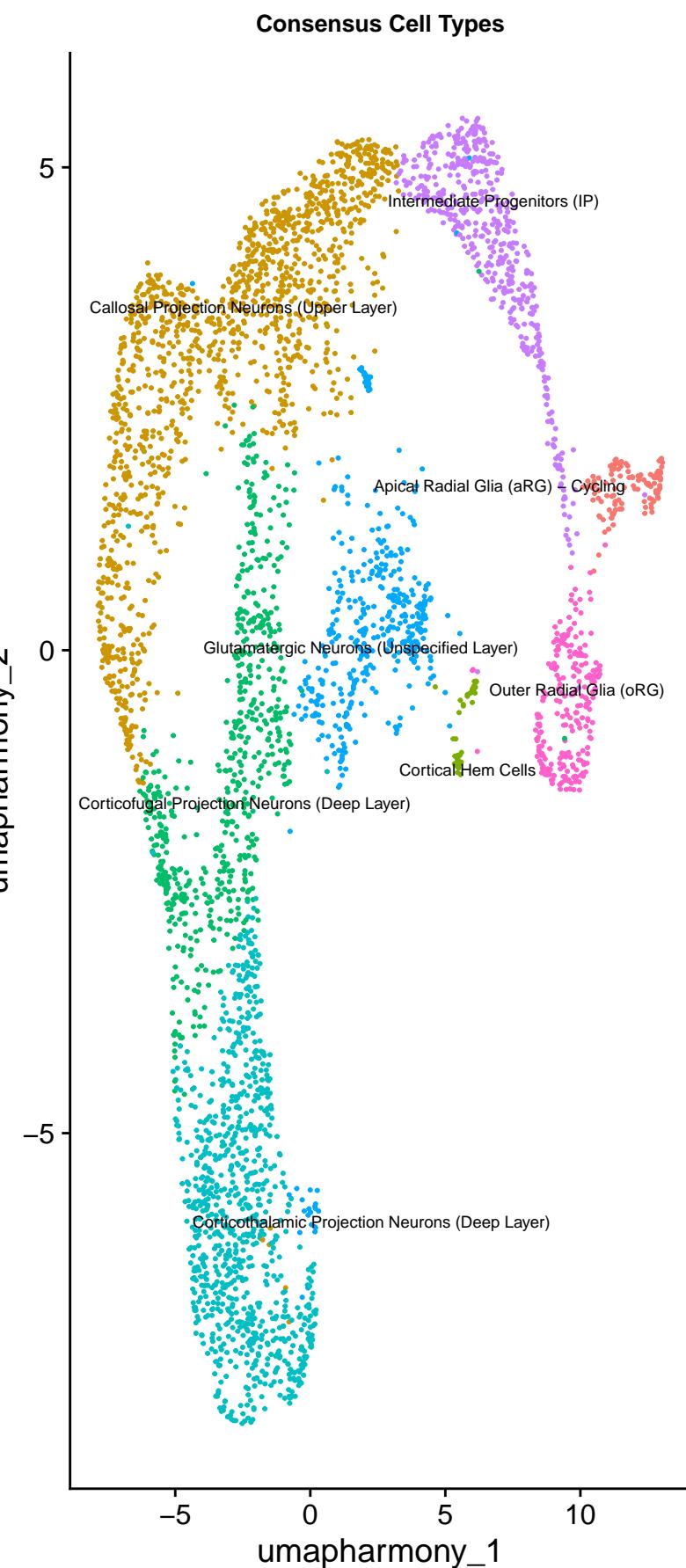
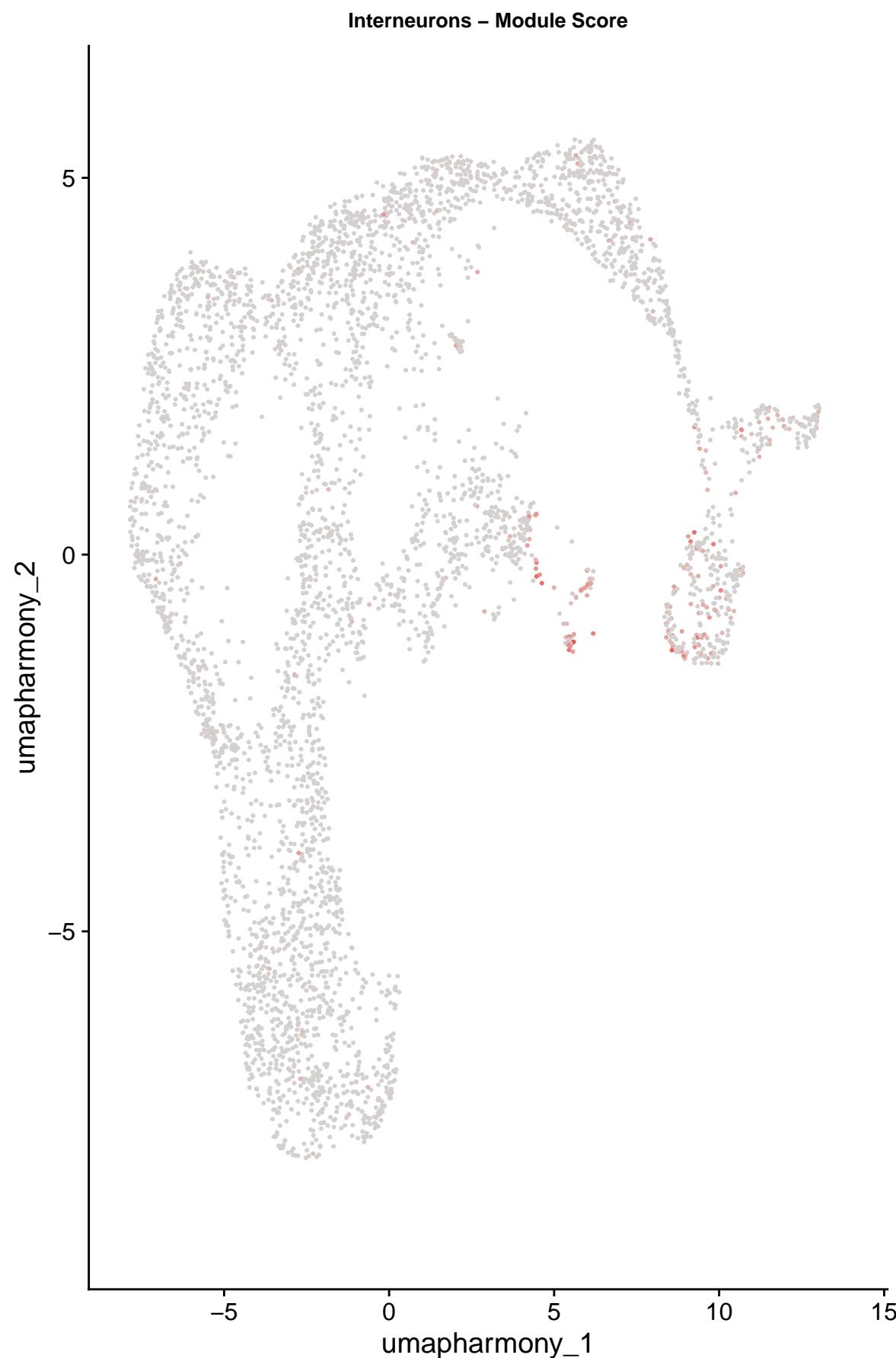
Consensus Cell Types



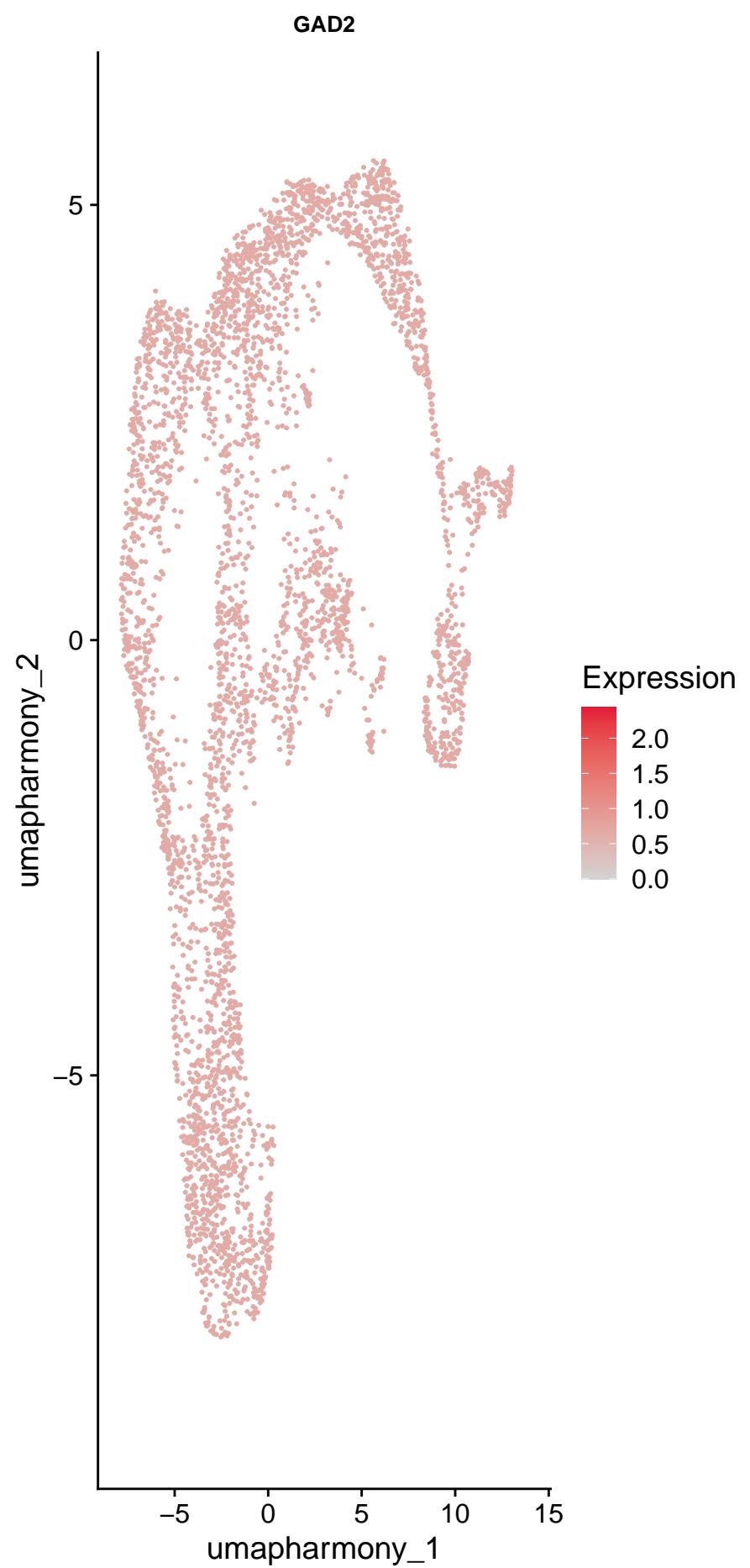
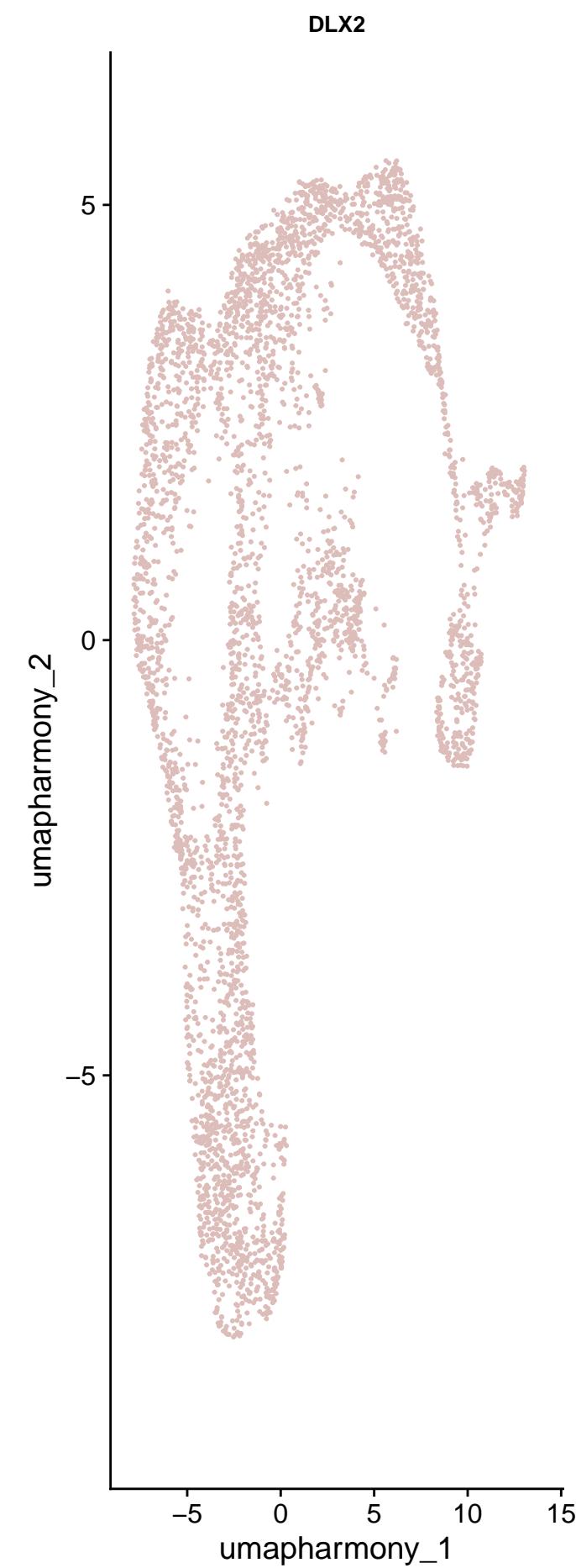
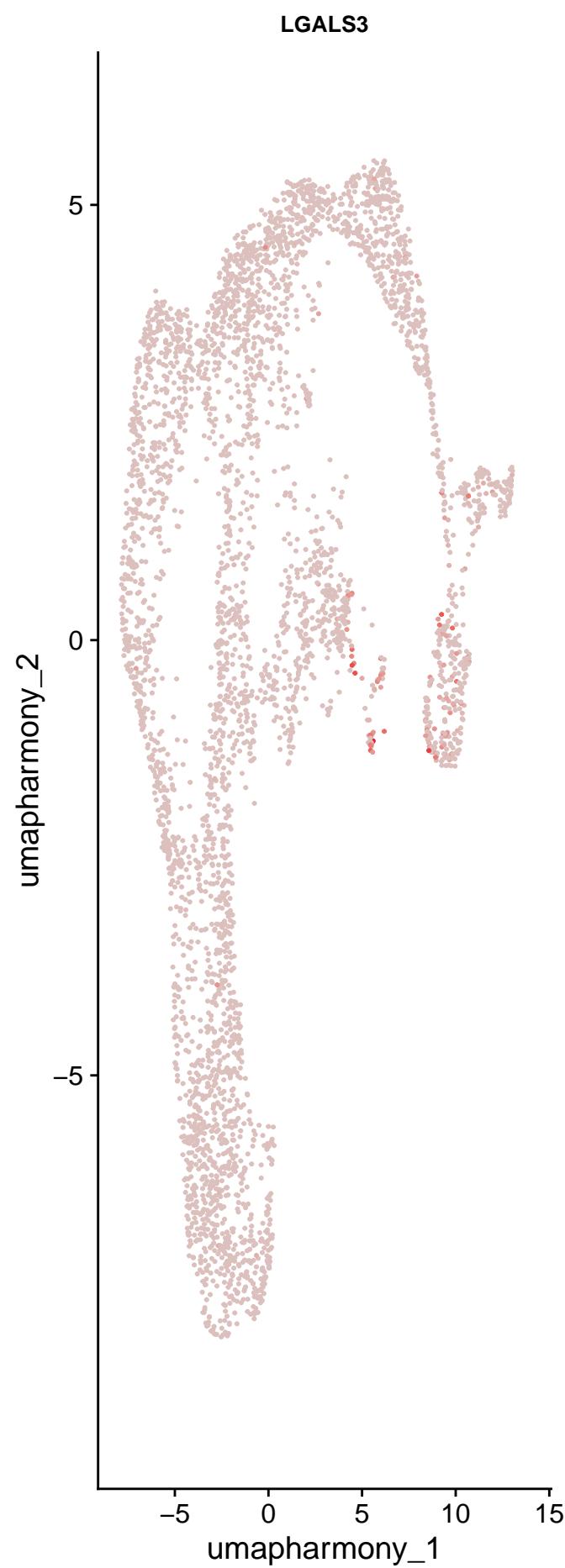
### Corticofugal\_Projection\_Neurons – Individual Gene Expression



Interneurons (Interneurons)  
Genes: DLX1, DLX2, GAD2, LGALS3  
[Missing: DLX1]

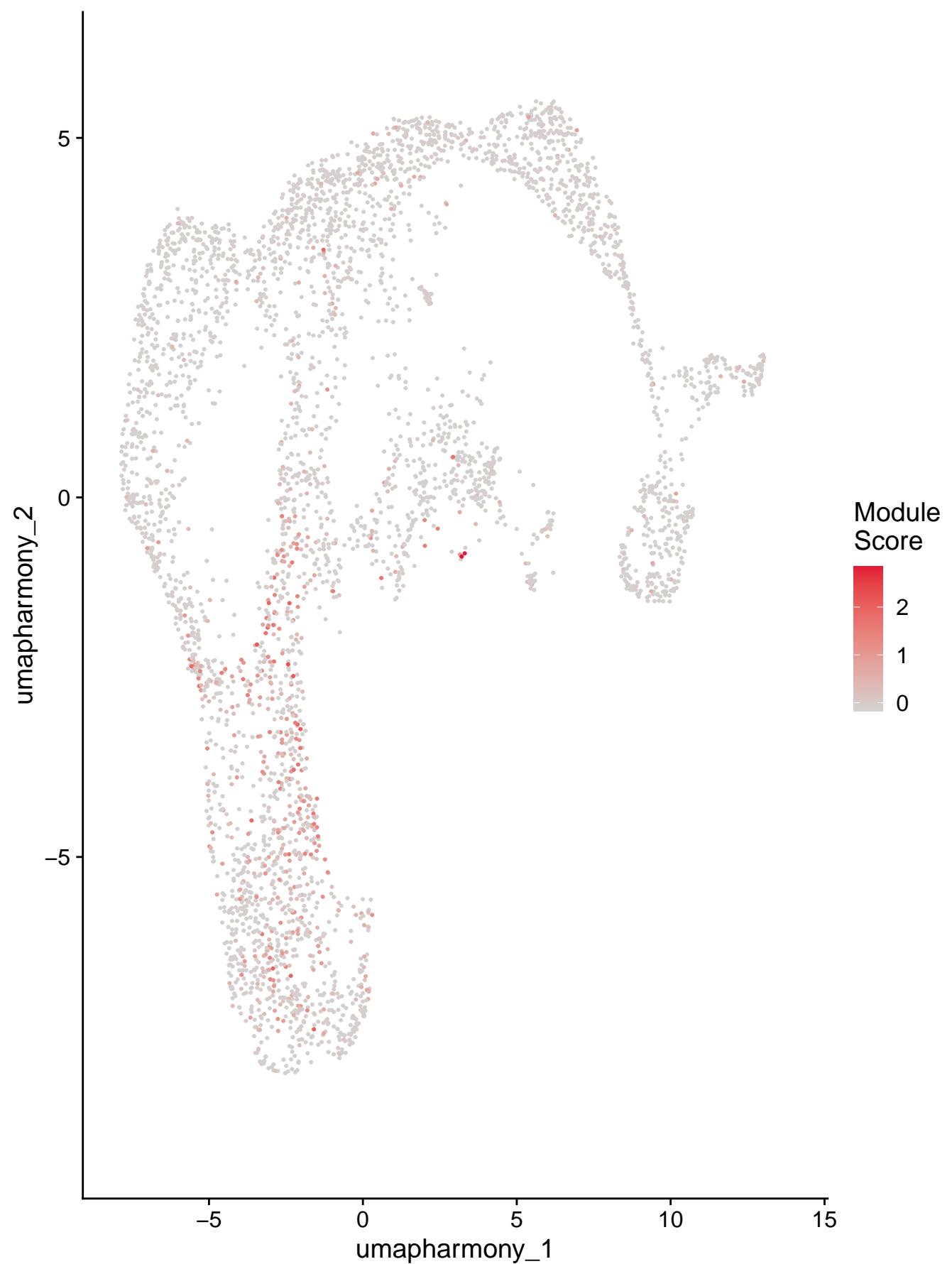


### Interneurons – Individual Gene Expression

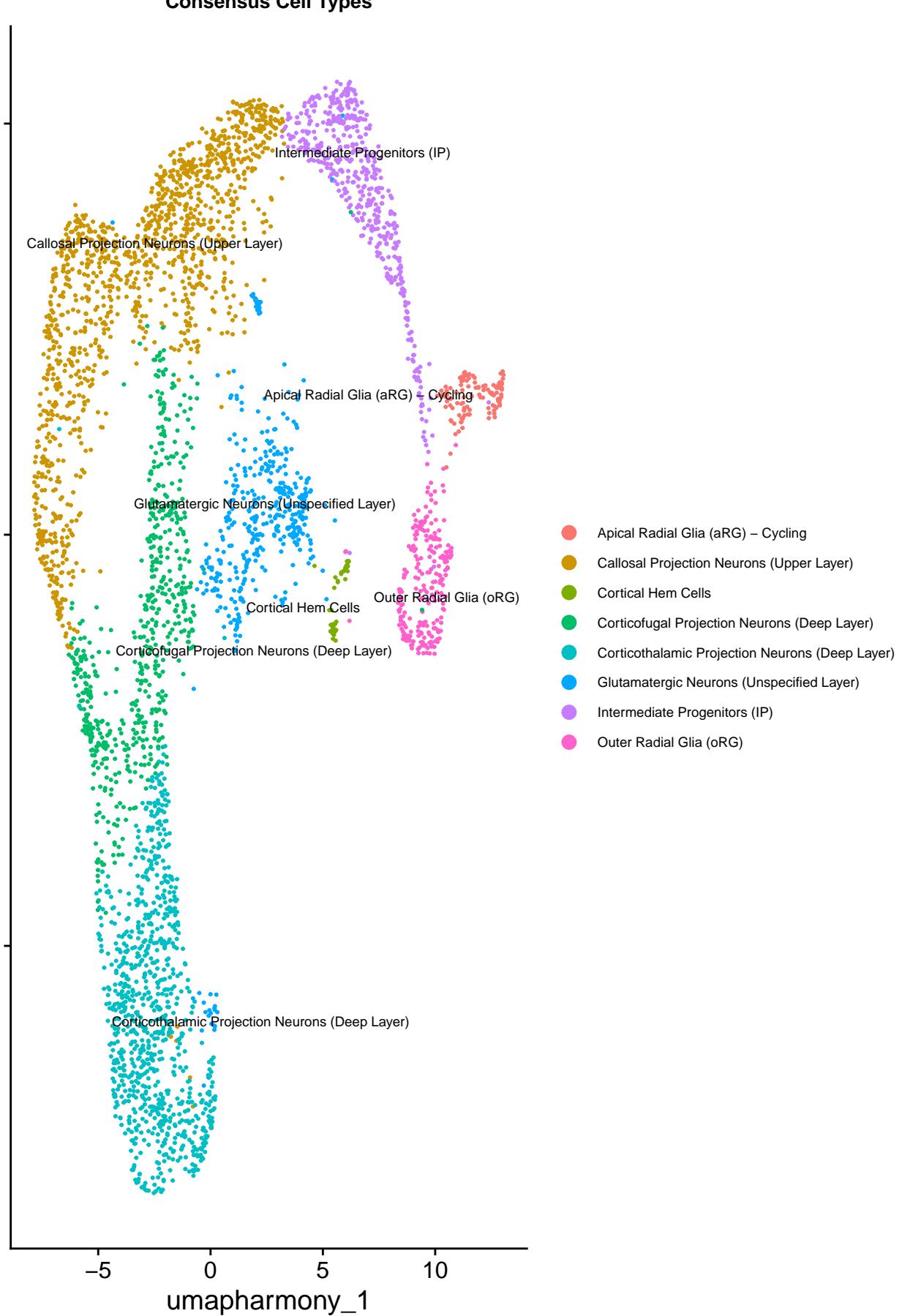


**Cajal\_Retzius (Interneurons)**  
Genes: RELN

**Cajal\_Retzius – Module Score**



**Consensus Cell Types**



Cajal\_Retzius – Individual Gene Expression

