6M_Org − Isoform Assay Integration Report

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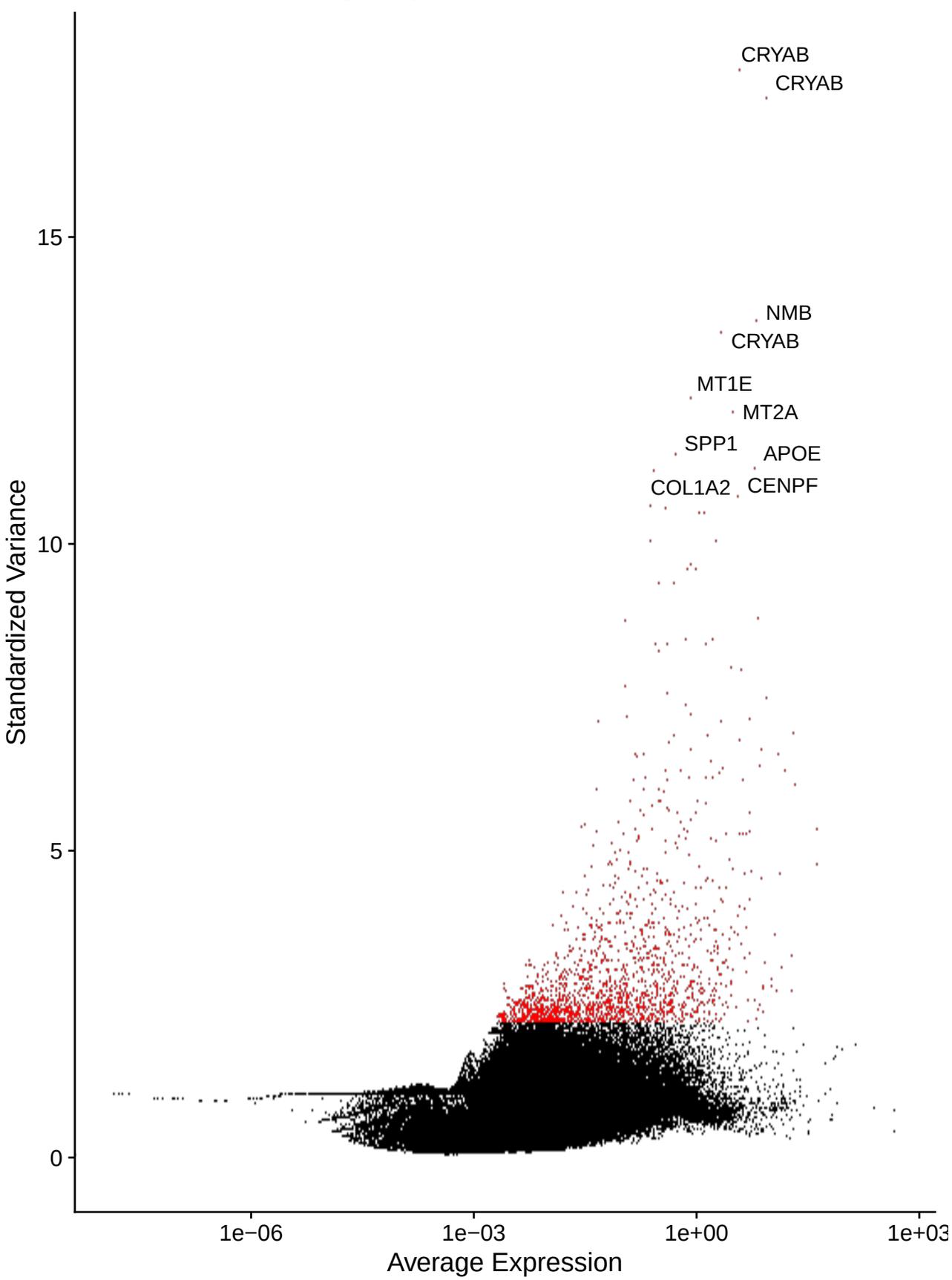
ISOFORM ASSAY INTEGRATION SUMMARY
Timepoint: 6M_Org

Dataset Information:
  Total Cells: 2320
  Gene−level Features (RNA): 45290
  Isoform−level Features (iso): 229664
  Consensus Cell Types: 8

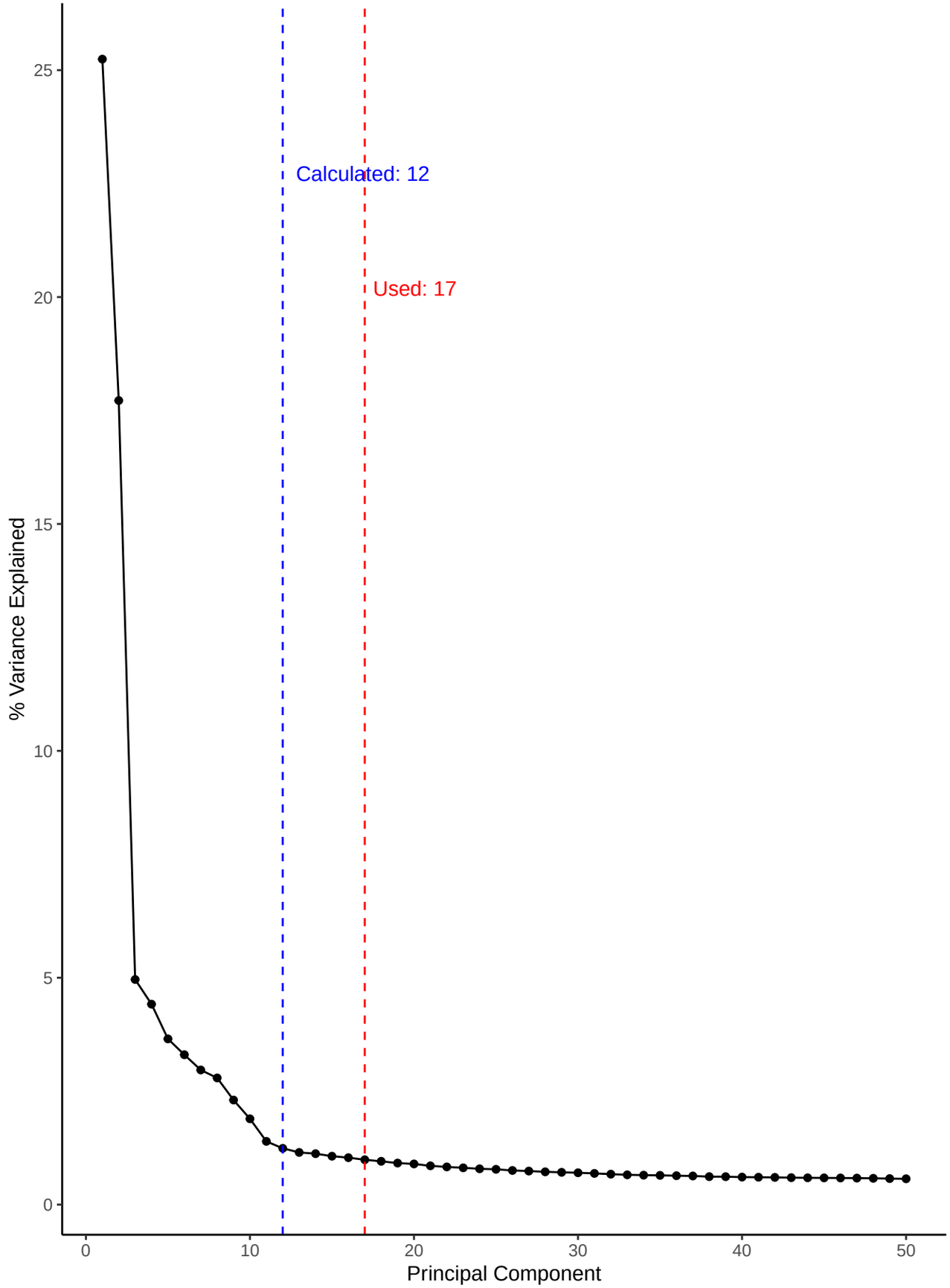
Isoform Processing:
  Optimal PCs: 17
  Optimal Resolution: 0.9
  Isoform Clusters: 12
  Gene−level Clusters: 12
```

Isoform Data Processing − QC Plots

6M_Org: Top 2000 Variable Isoforms



6M_Org − Isoform PCA Elbow Plot



6M_Org − Isoform Silhouette Optimization

Average Silhouette Width

0.25

0.20

0.25

0.50

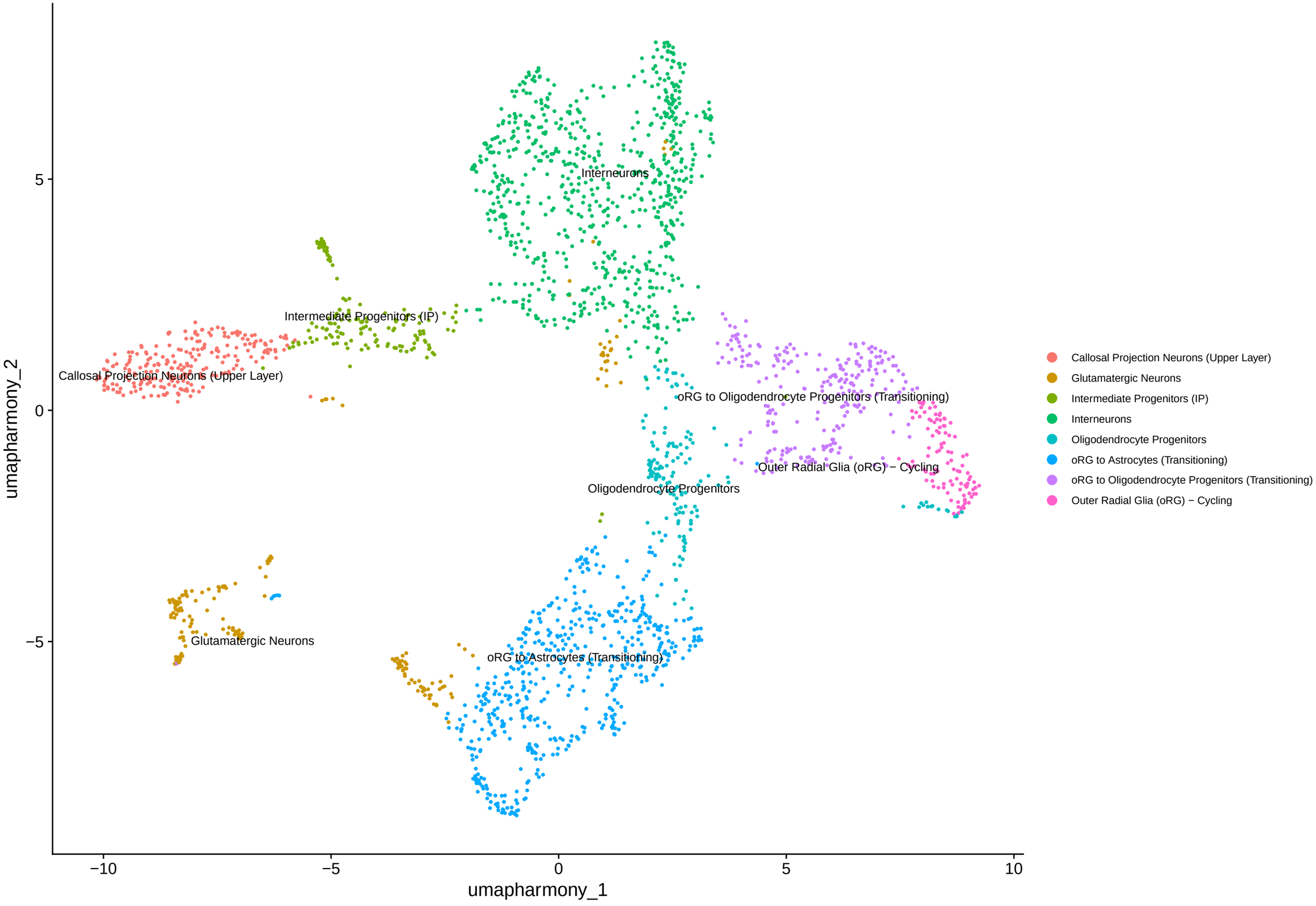
0.75

1.00

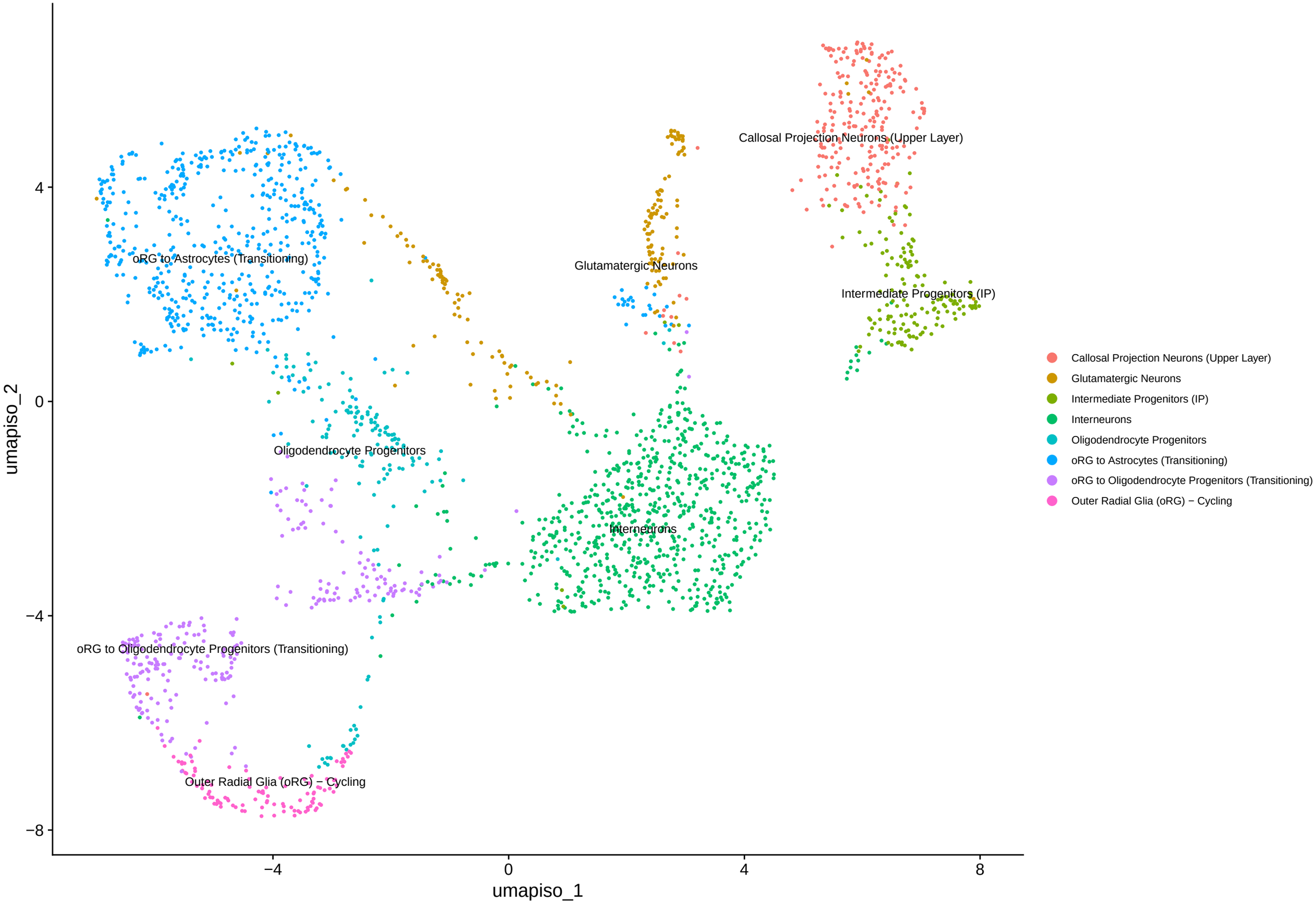
1.25

Resolution

Gene−level UMAP (Harmony Integration)

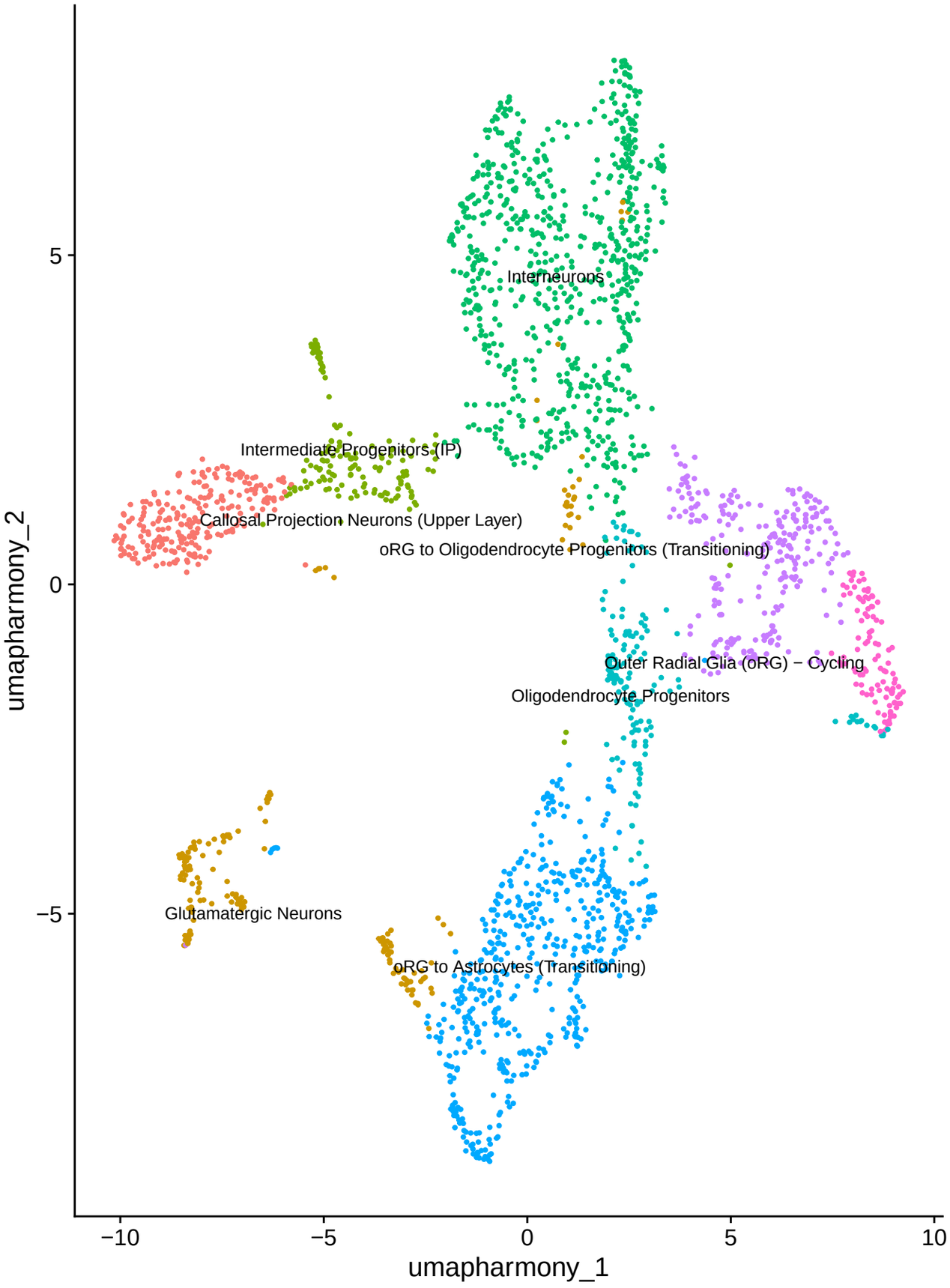


Isoform−level UMAP (No Integration)

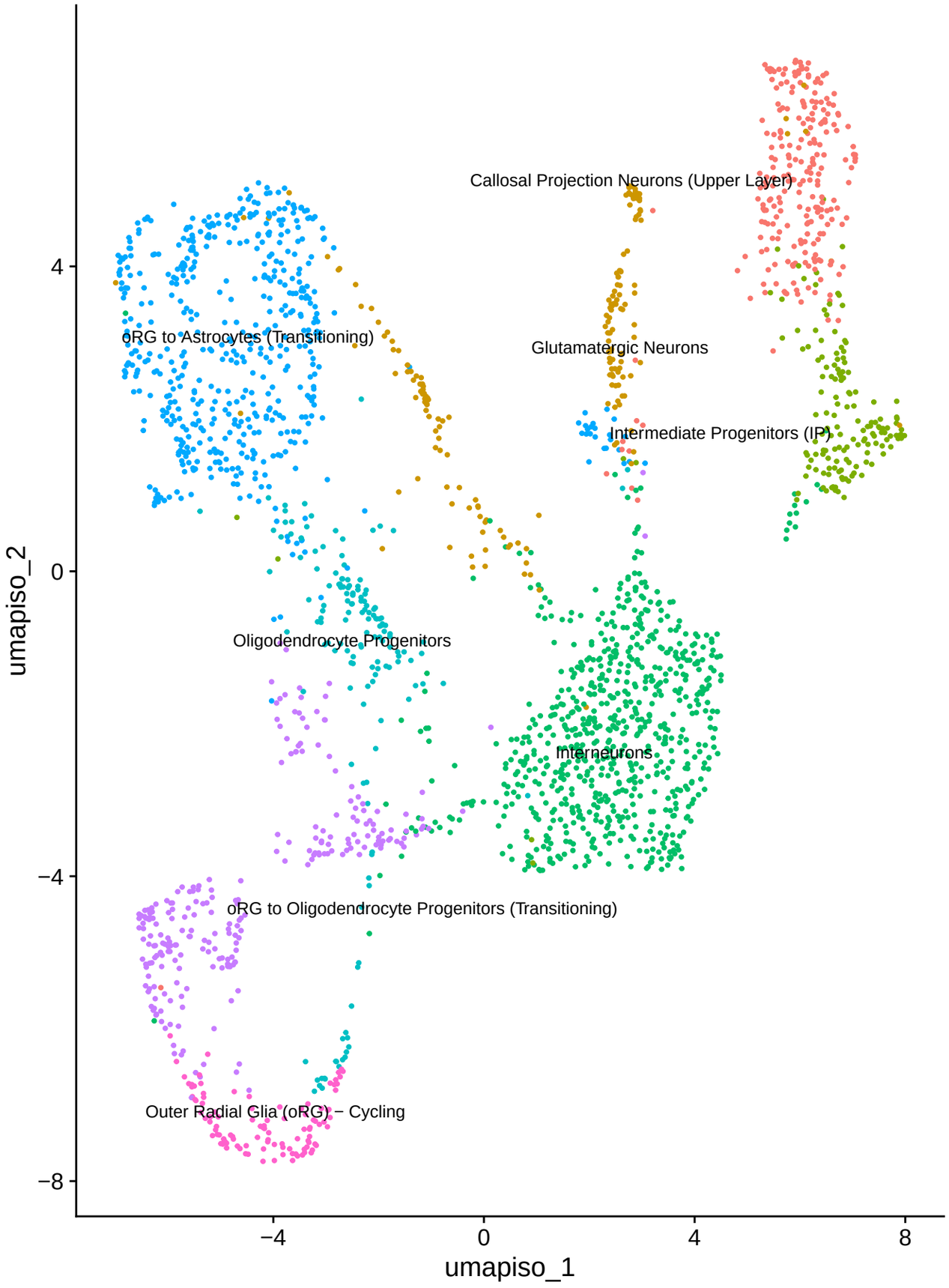


Gene vs Isoform UMAP − Consensus Cell Types

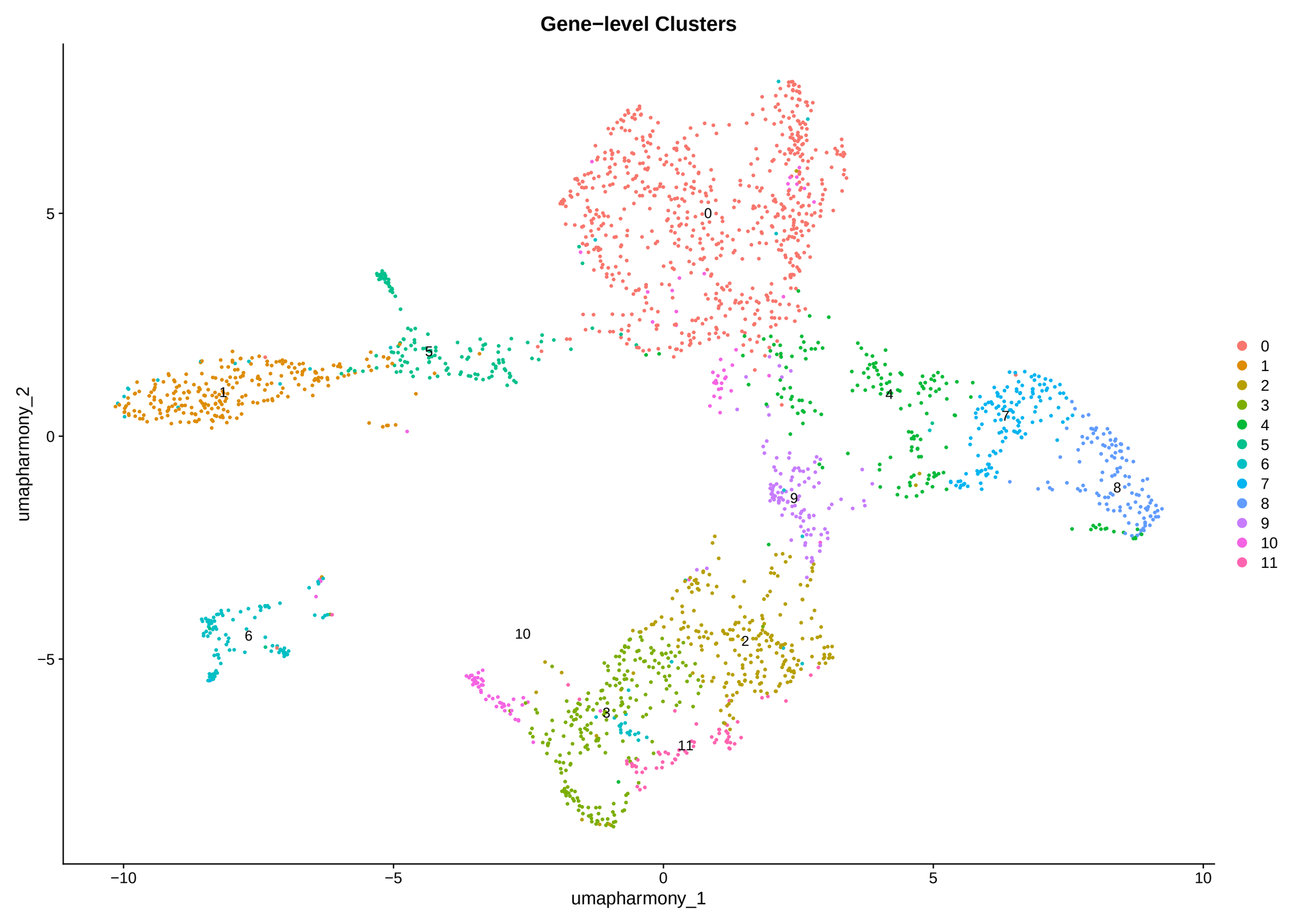
Gene−level UMAP (Harmony Integration)



Isoform−level UMAP (No Integration)



Gene−level Clusters



Isoform−level Clusters

umapiso_2

4
0
−4
−8

−4
0
4
8

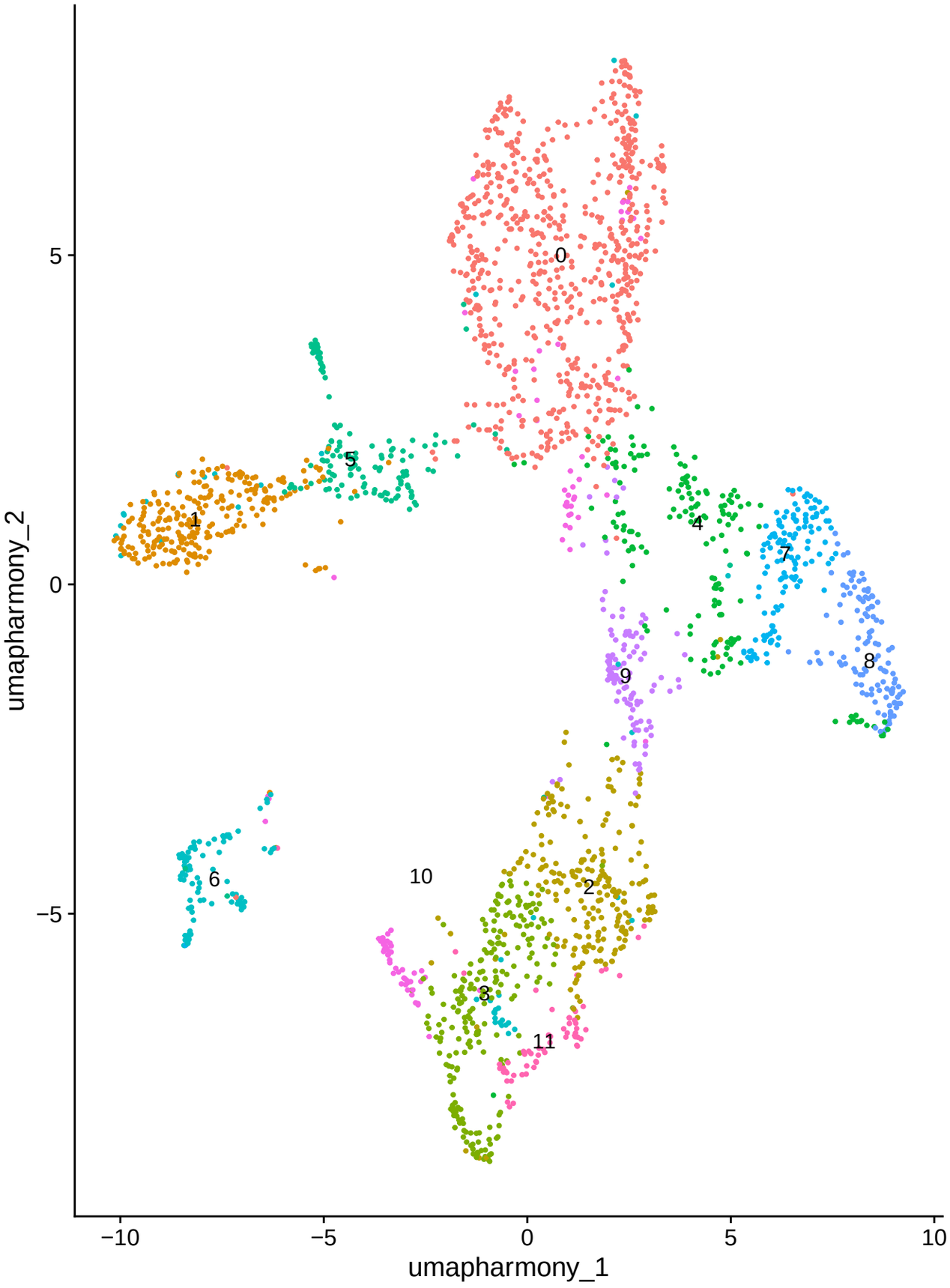
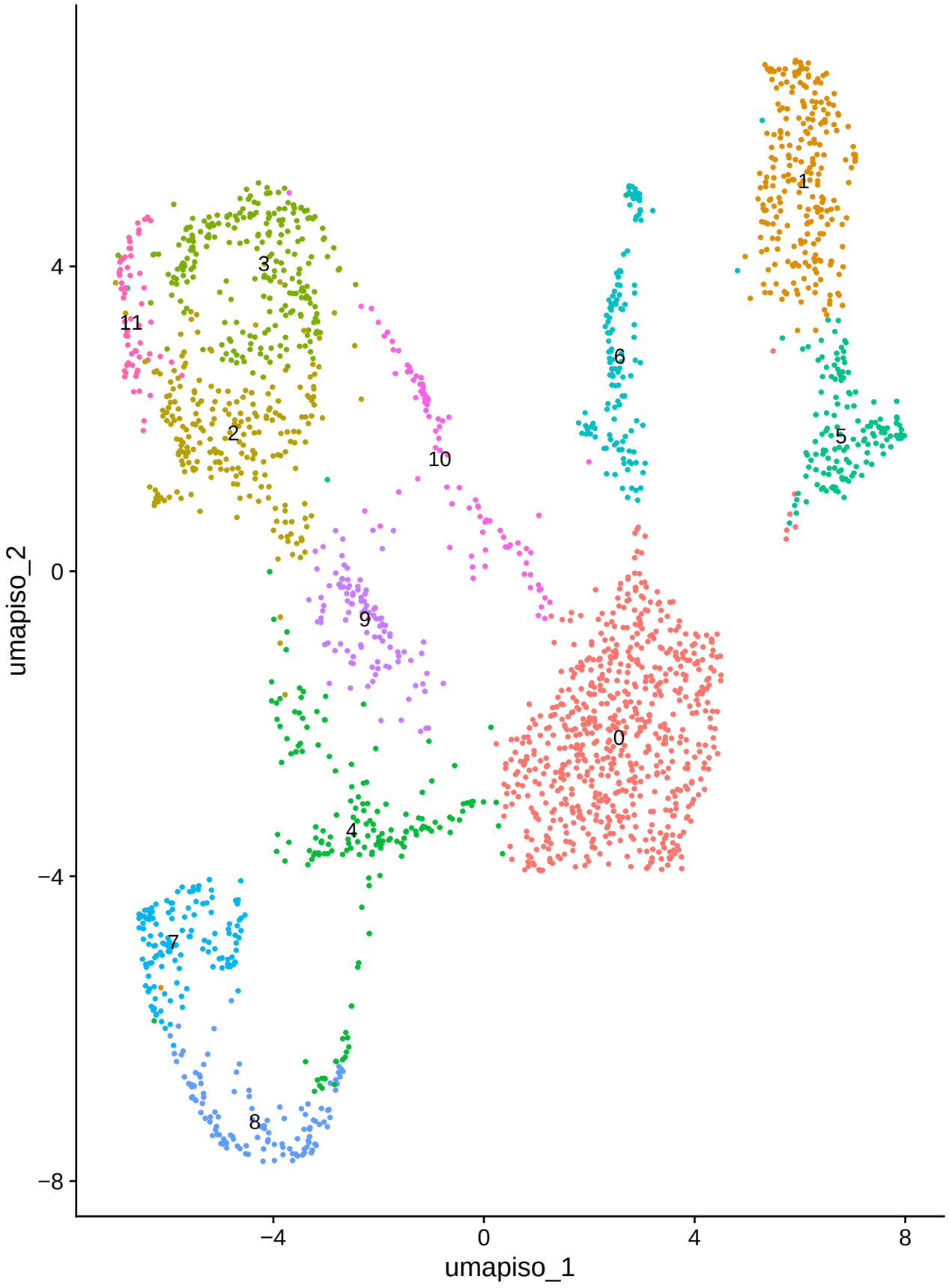
umapiso_1

11
3
2
10
6
1
5
9
0
4
7
8

0
1
2
3
4
5
6
7
8
9
10
11

Gene vs Isoform Clustering

Gene−level Clusters



Isoform−level Clusters