3M_Org − Isoform Assay Integration Report

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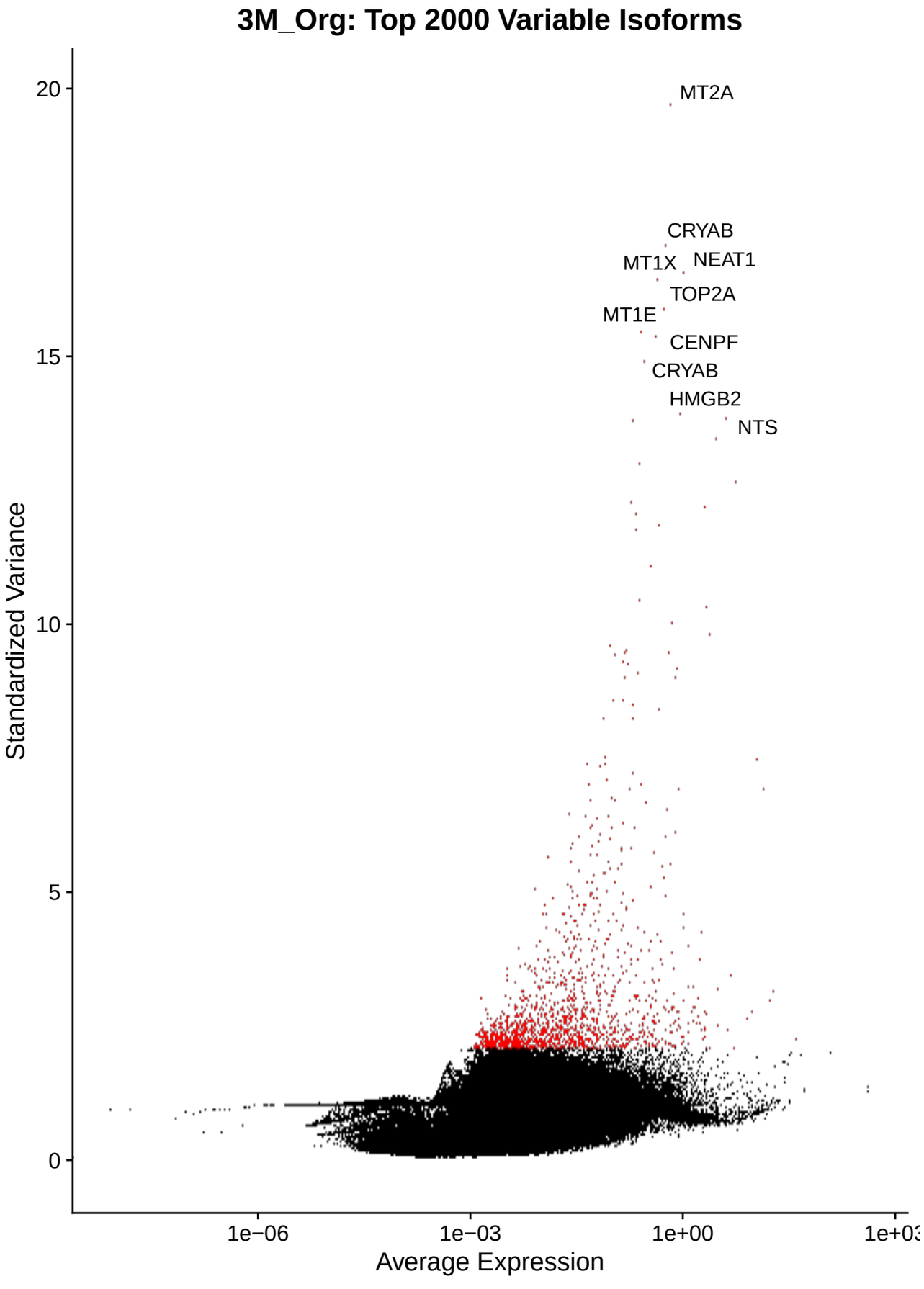
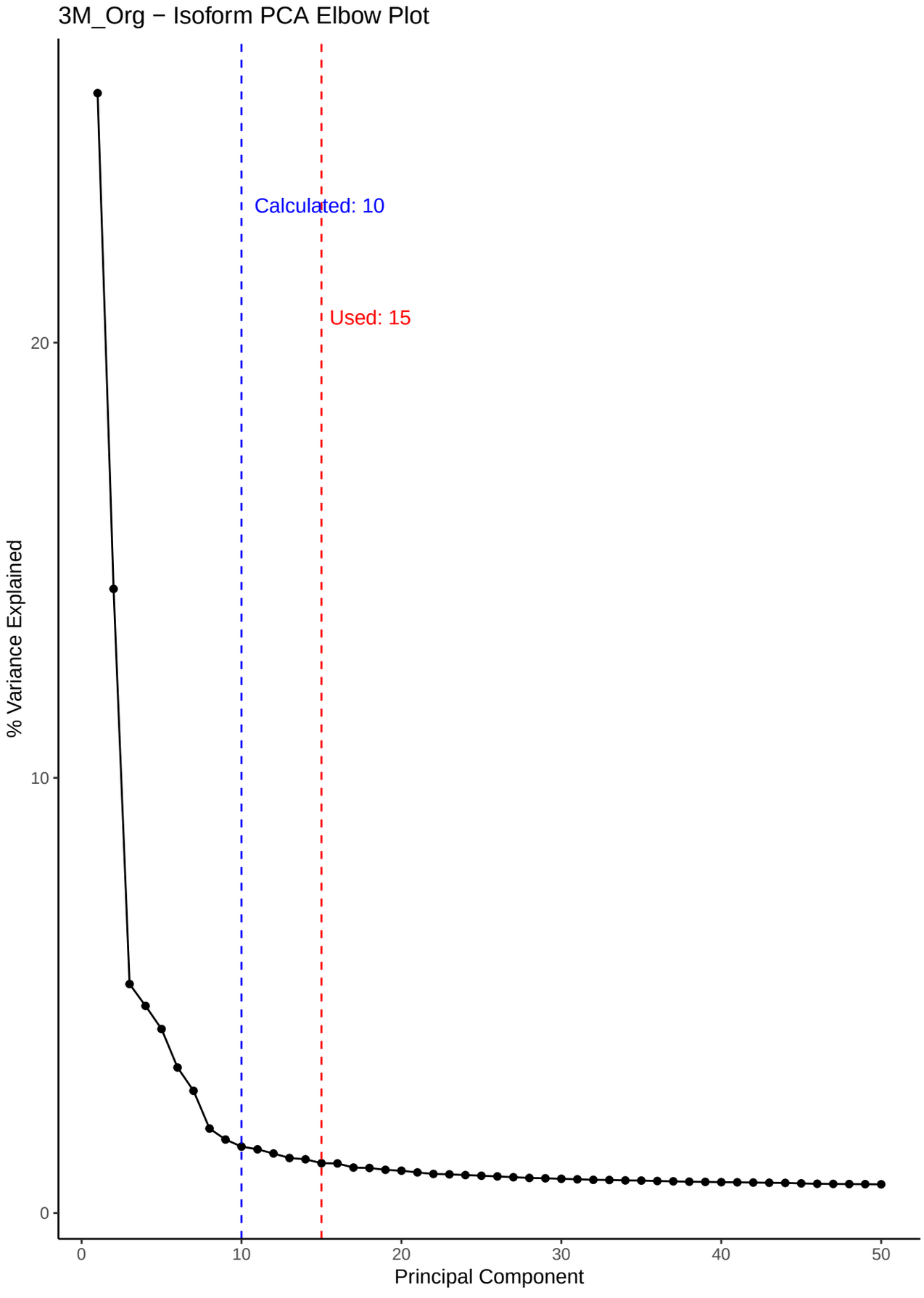
ISOFORM ASSAY INTEGRATION SUMMARY
Timepoint: 3M_Org

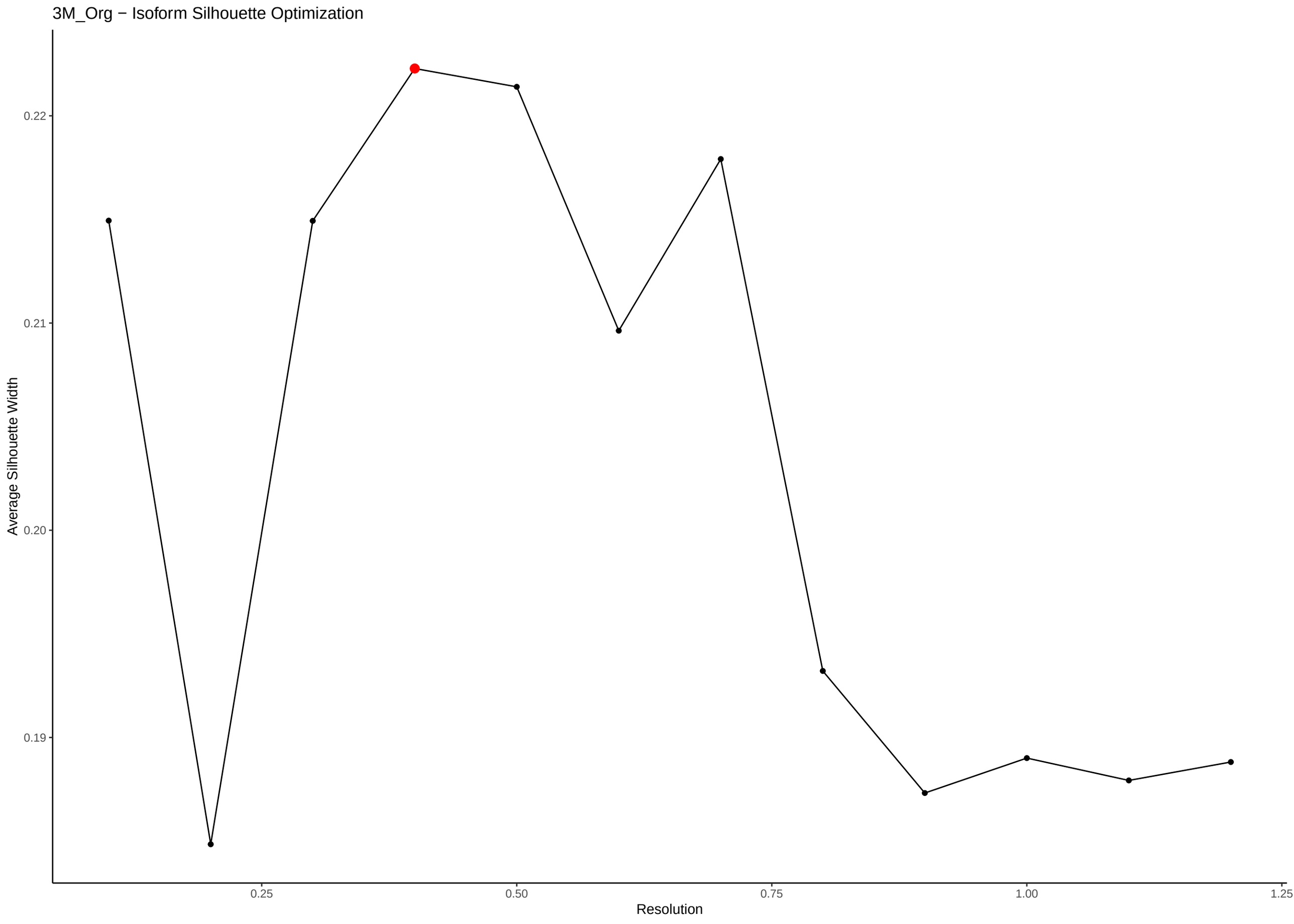
Dataset Information:
  Total Cells: 4071
  Gene−level Features (RNA): 47949
  Isoform−level Features (iso): 235336
  Consensus Cell Types: 8

Isoform Processing:
  Optimal PCs: 15
  Optimal Resolution: 0.4
  Isoform Clusters: 10
  Gene−level Clusters: 10
```

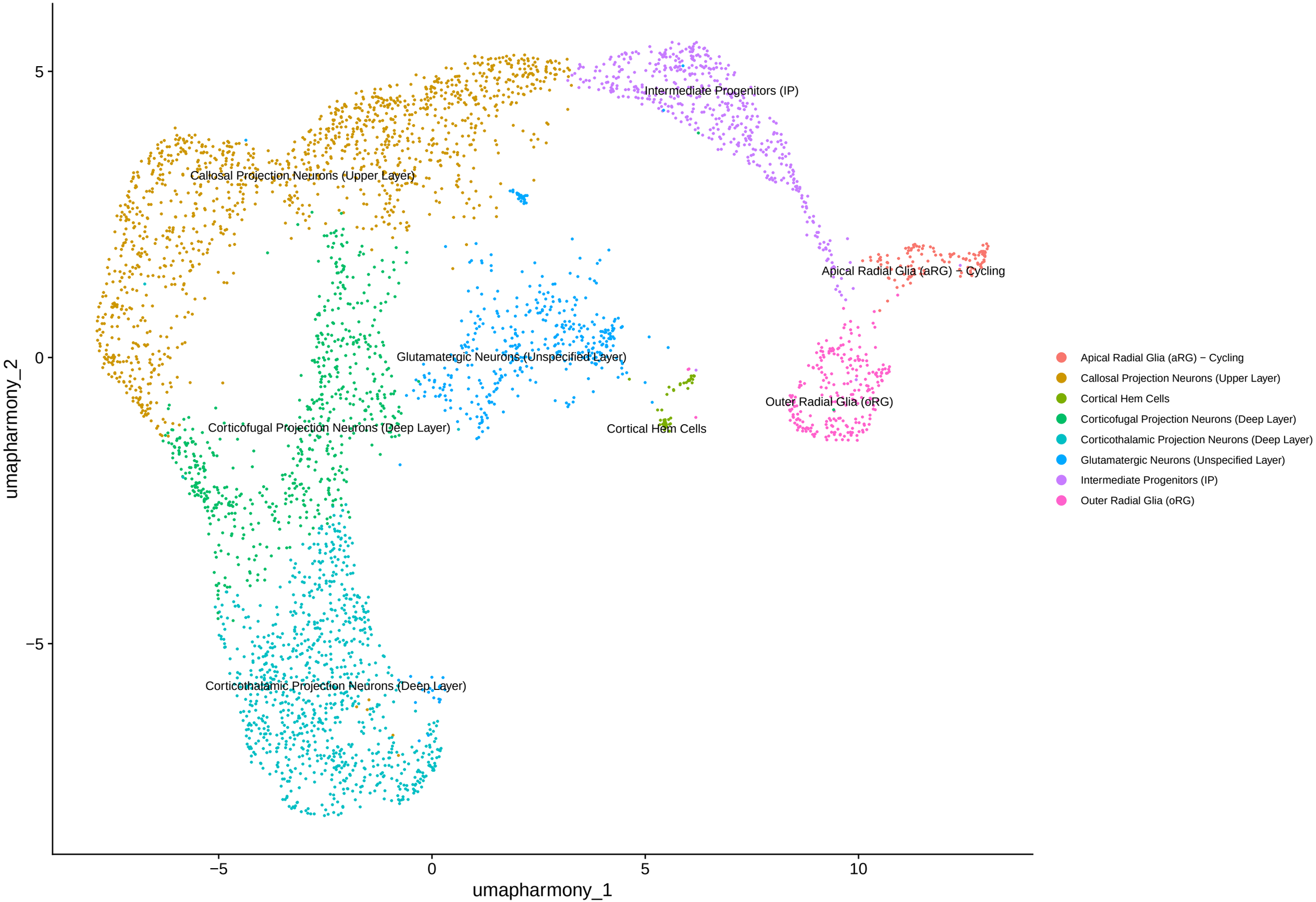
Isoform Data Processing − QC Plots



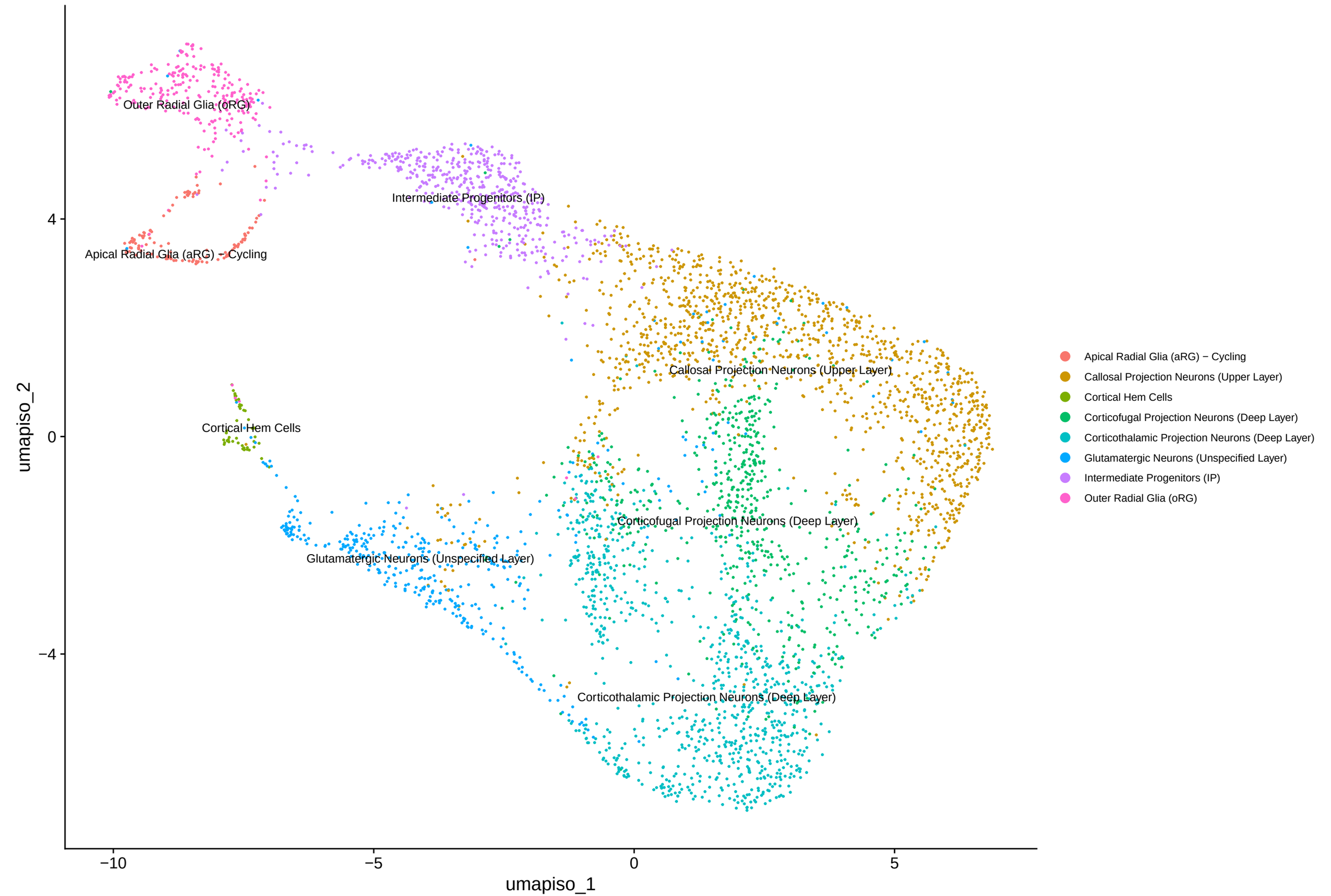



3M_Org − Isoform Silhouette Optimization
Average Silhouette Width
0.22
0.21
0.20
0.19
0.25
0.50
0.75
1.00
1.25
Resolution

Gene−level UMAP (Harmony Integration)



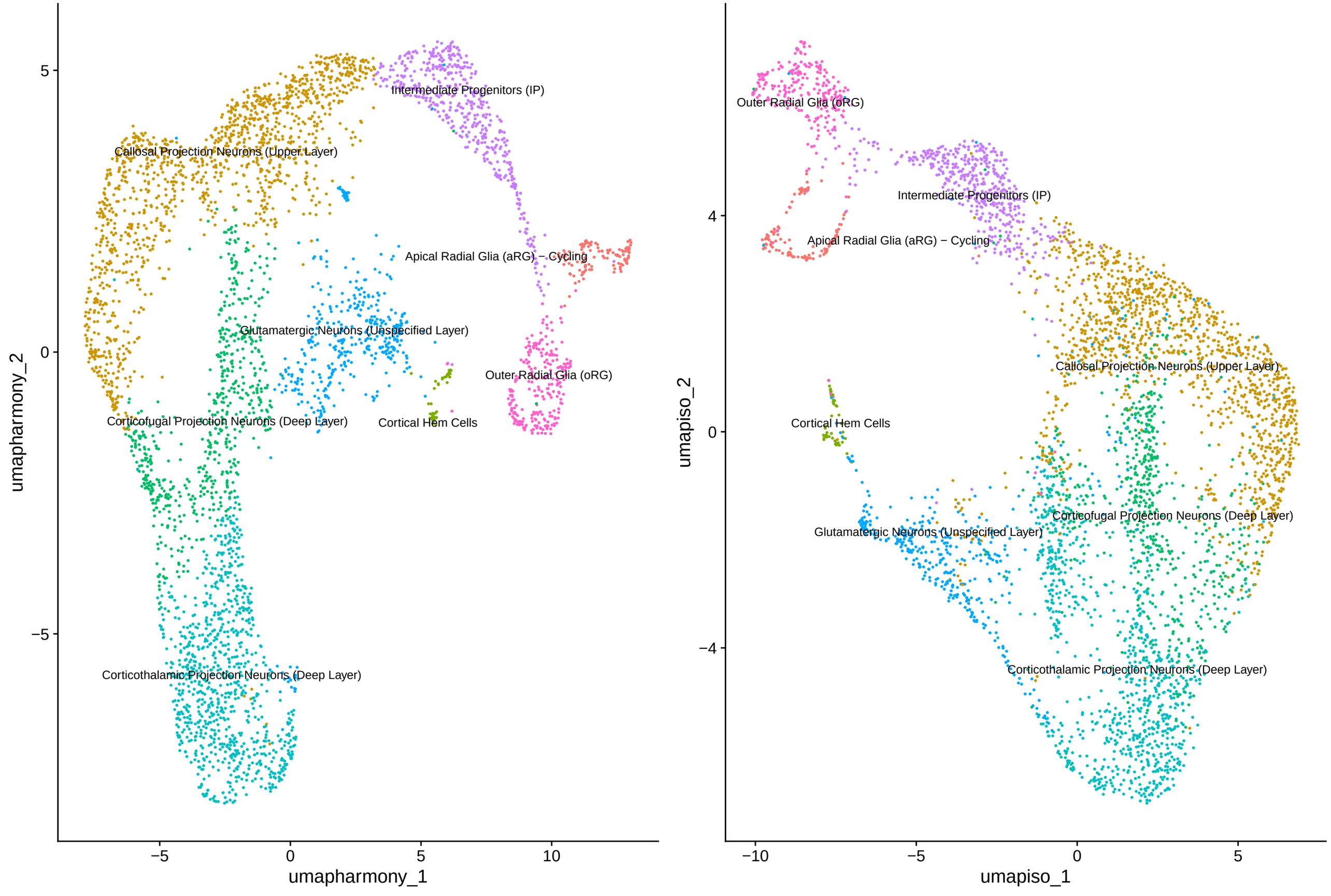
Isoform−level UMAP (No Integration)

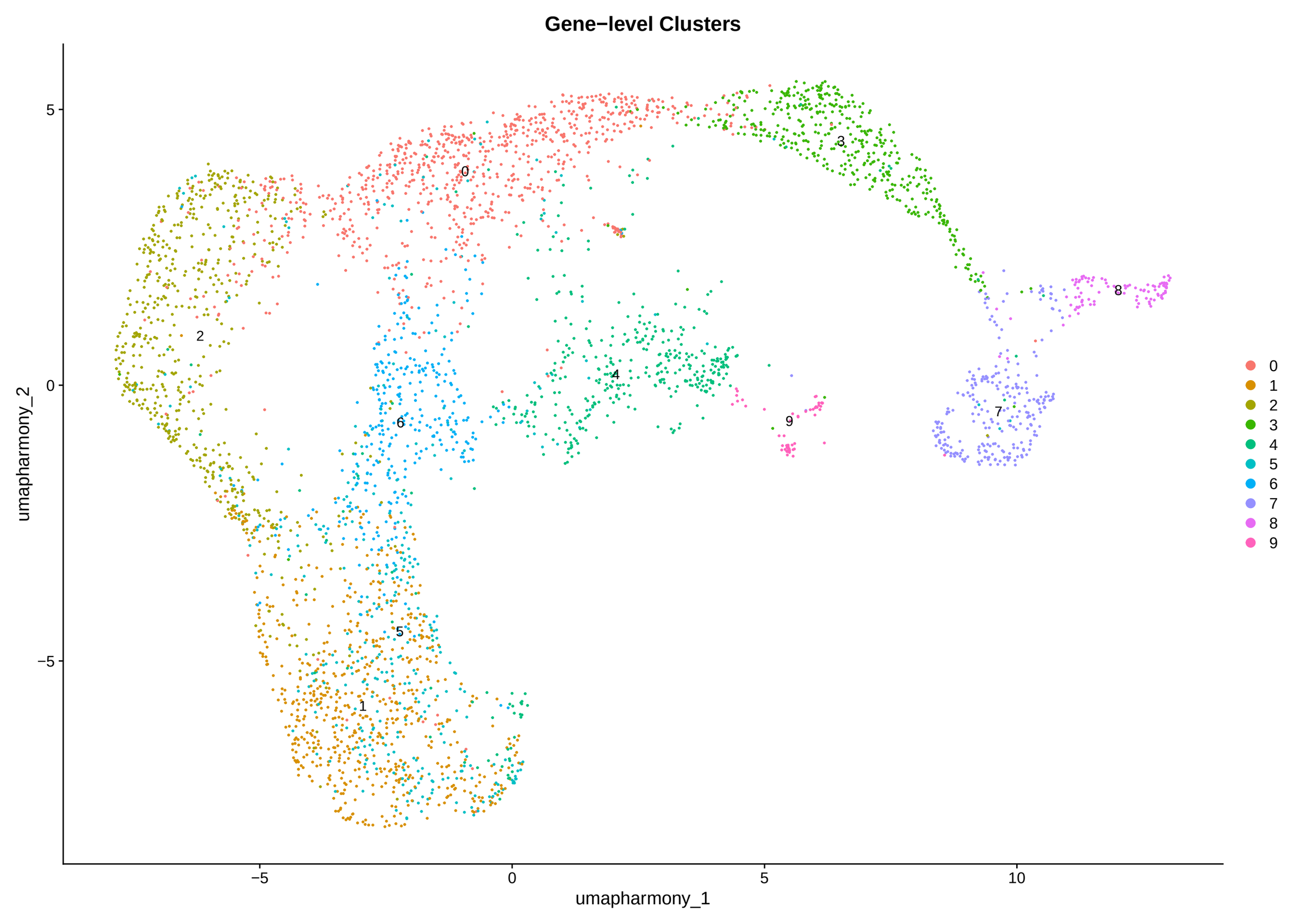


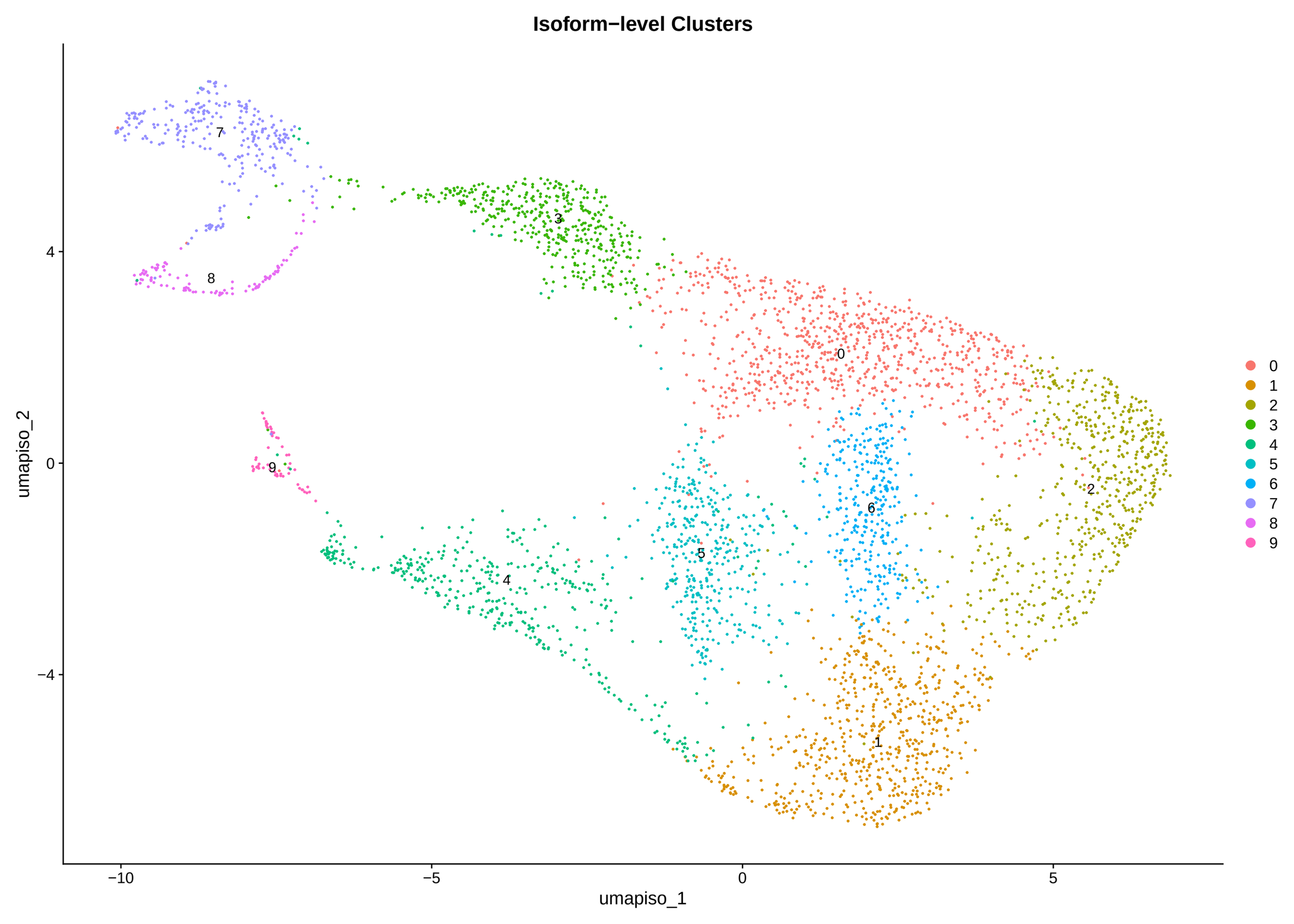
Gene vs Isoform UMAP − Consensus Cell Types

Gene−level UMAP (Harmony Integration)

Isoform−level UMAP (No Integration)




Gene−level Clusters
umapharmony_2
umapharmony_1
5
0
−5
−5
0
5
10
0
1
2
3
4
5
6
7
8
9


Isoform−level Clusters
umapiso_2
umapiso_1
4
0
−4
−10
−5
0
5
7
8
3
0
9
4
5
6
2
1
0
1
2
3
4
5
6
7
8
9

Gene vs Isoform Clustering