1M_Org – Isoform Assay Integration Report

ISOFORM ASSAY INTEGRATION SUMMARY

Timepoint: 1M_Org

Dataset Information:

Total Cells: 2116

Gene-level Features (RNA): 45716

Isoform-level Features (iso): 222987

Consensus Cell Types: 9

Isoform Processing:

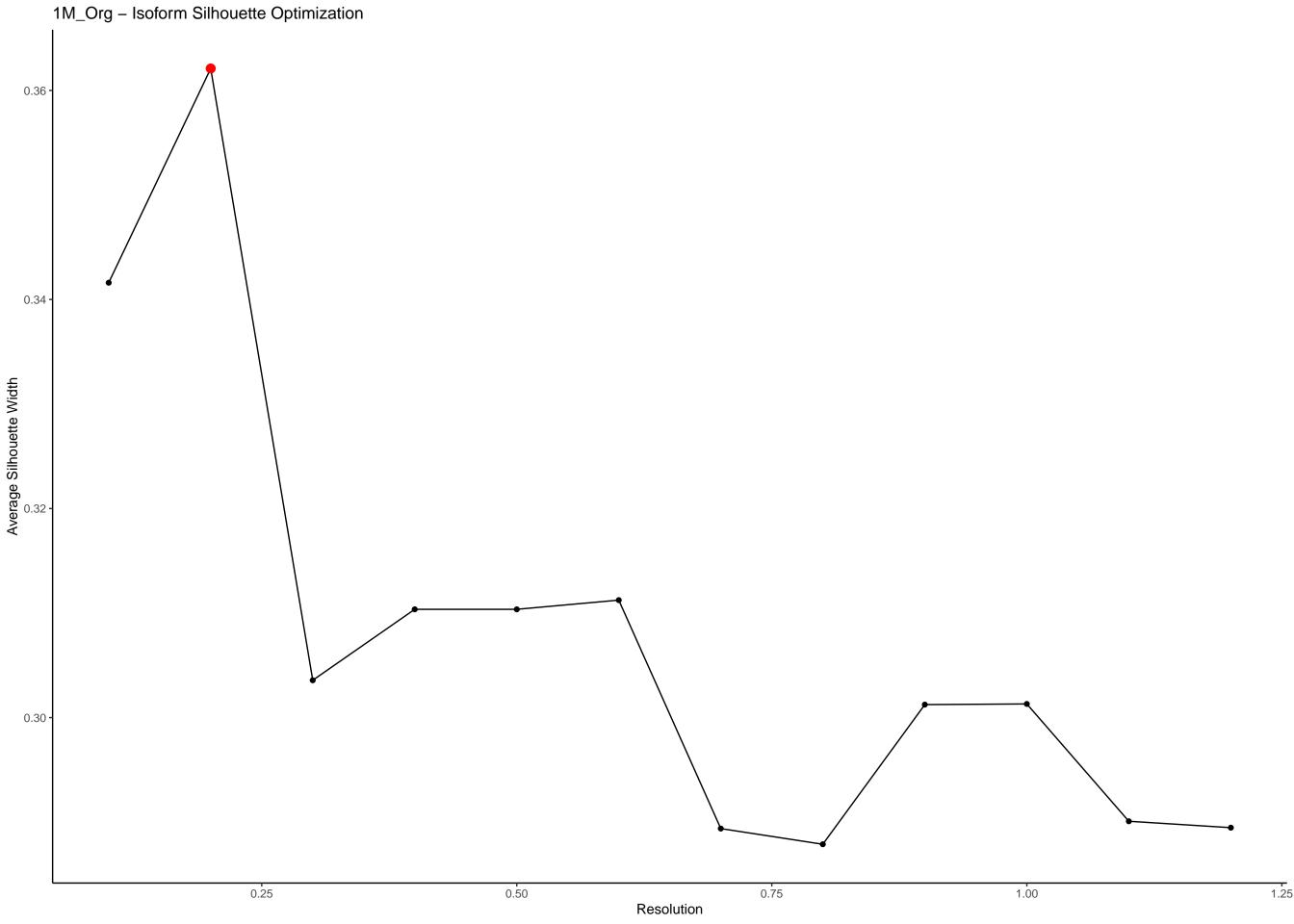
Optimal PCs: 10

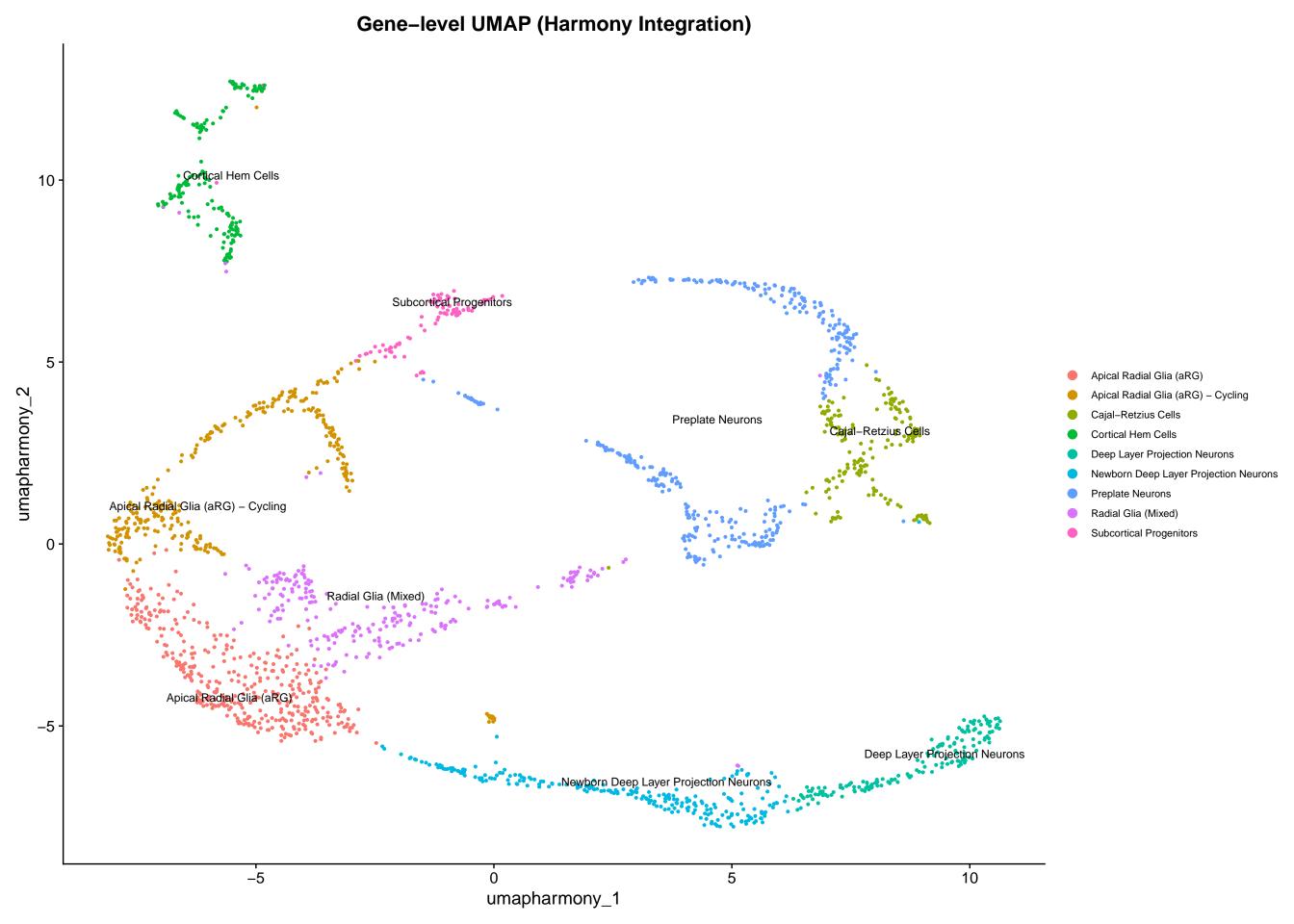
Optimal Resolution: 0.2

Isoform Clusters: 8

Gene-level Clusters: 8

Isoform Data Processing – QC Plots 1M_Org – Isoform PCA Elbow Plot 1M_Org: Top 2000 Variable Isoforms · TTR 30 -15 **-**Calculated: 5 ! Used: 10 20 Standardized Variance % Variance Explained IGFBP7 SPARCL1 FITM1 TAGLN · PTN NTS CXCL14 PMCH CENPF 10 -0 -1e-06 1e-03 1e+00 1e+03 20 30 50 10 40 Average Expression **Principal Component**





Isoform-level UMAP (No Integration) Subcortical Progenitors 10 Cortical Hem Cells Preplate Neurons 5 Apical Radial Glia (aRG) Apical Radial Glia (aRG) - Cycling Cajal-Retzius Cells umapiso_2 Cortical Hem Cells Deep Layer Projection Neurons Newborn Deep Layer Projection Neurons Preplate Neurons Radial Glia (Mixed) Subcortical Progenitors 0 Apical Radial Glia (aRG) - Cycling Radial Glia (Mixed) Apical Radial Glia (aRG) -5 Deep Layer Projection Neurons **–**10 -5 0 5 10 umapiso_1

Gene vs Isoform UMAP – Consensus Cell Types Gene-level UMAP (Harmony Integration) Isoform-level UMAP (No Integration) Subcortical Progenitors 10 Cortical Hem Cells 10 -Subcortical Progenitors Cortical Hem Cells 5 umapharmony_2 Preplate Neurons umapiso_2 Apical Radial Glia (aRG) - Cycling Apical Radial Glia (aRG) - Cycling Radial Glia (Mixed) Apical Radial Glia (aRG) -5 -5 Deep Layer Projection Neurons Newborn Deep Layer Projection Neur <u>-</u>5 10 **–**10 10 -5

umapharmony_1

umapiso_1

