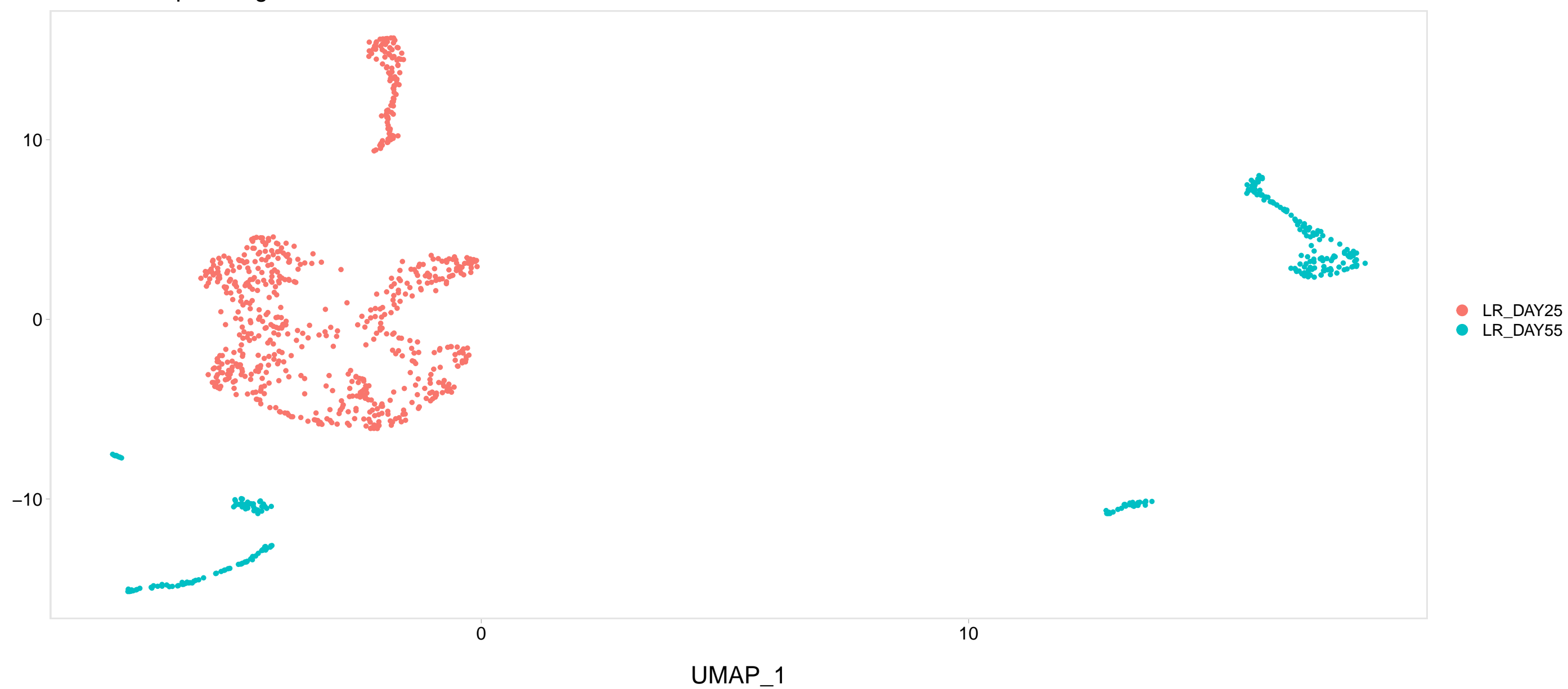


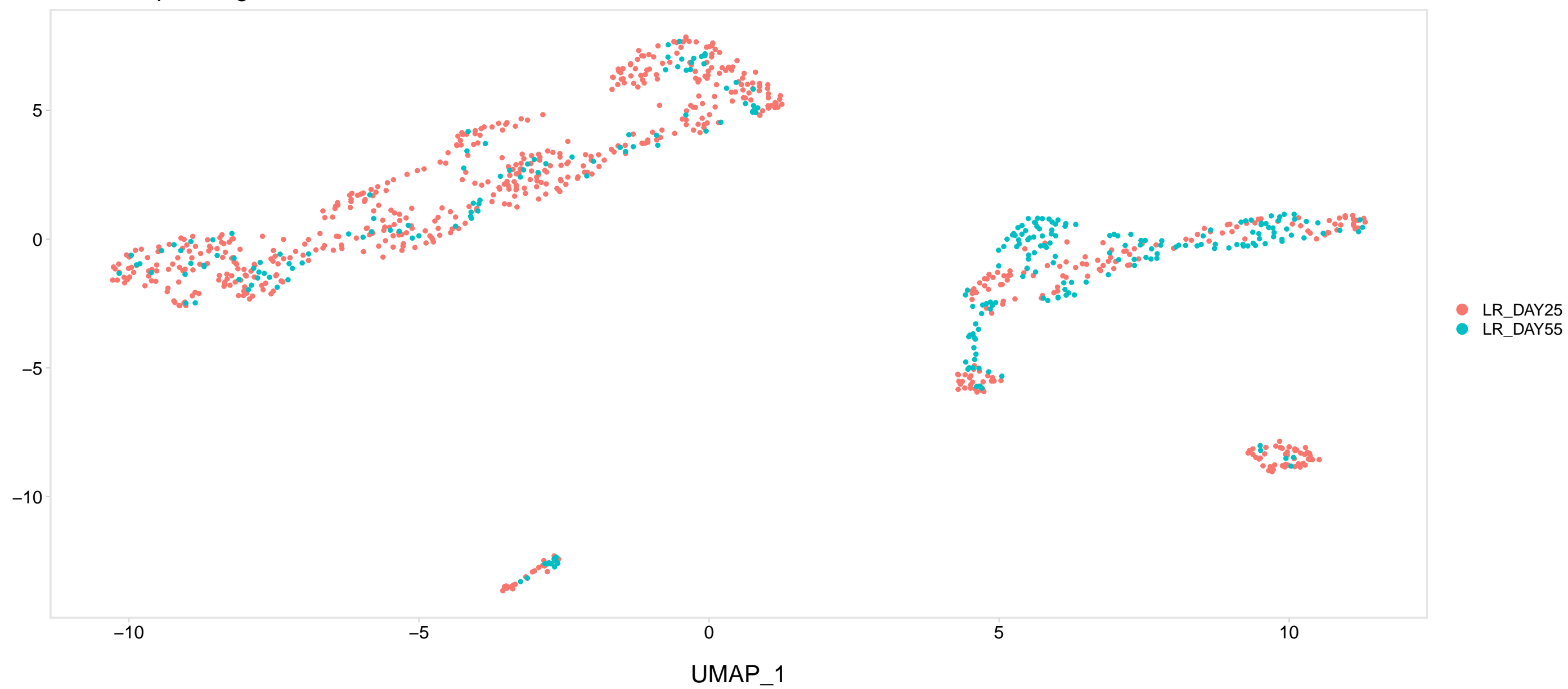
Harmony Integration (Days 25 + 55)

Long Read Gene Level Counts

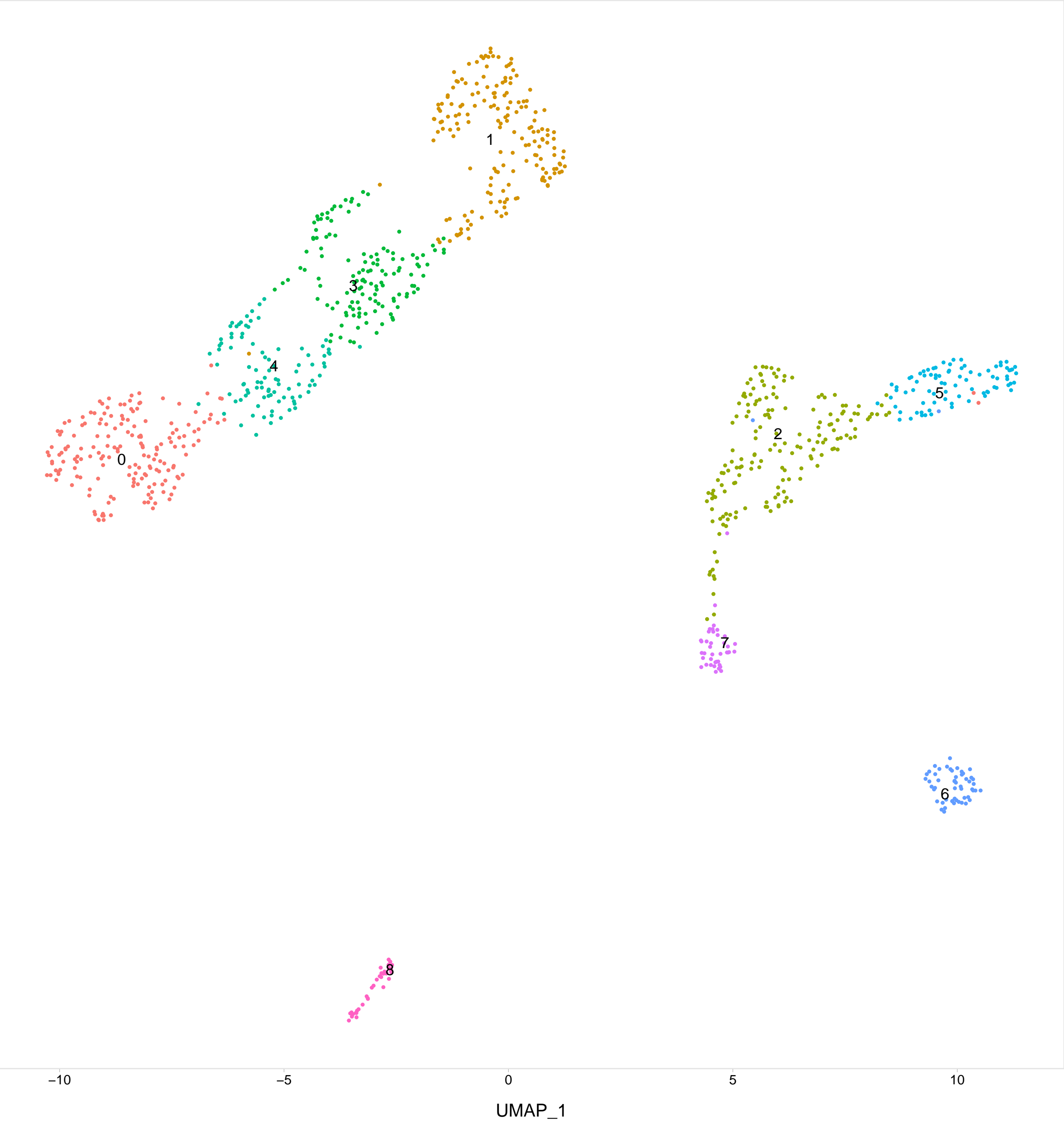
Long-Read Gene-Level UMAP
Before Sample Integration



Long-Read Gene-Level UMAP
After Sample Integration



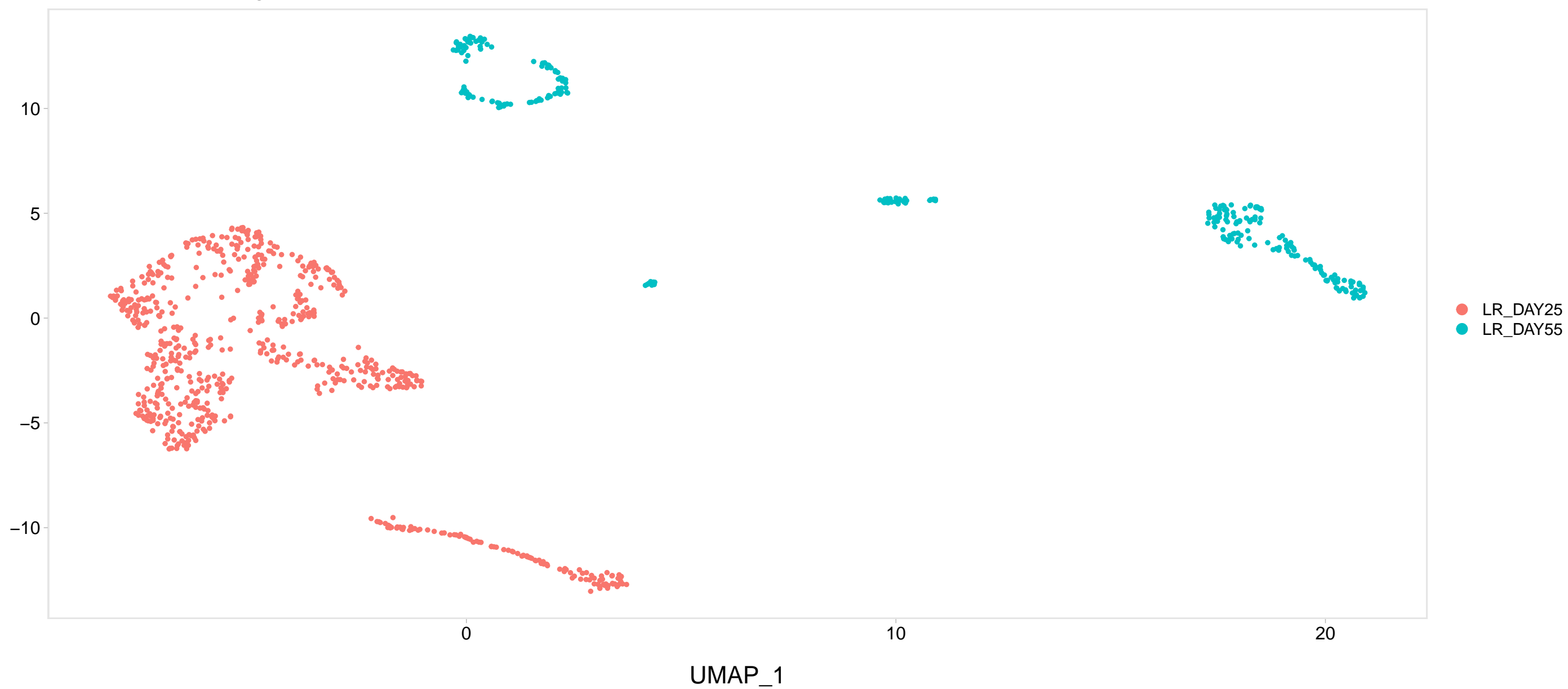
Integrated Day 25 + 55
Long-Read Gene Level Clusters
(NPCs = 12, Resolution = 0.5)



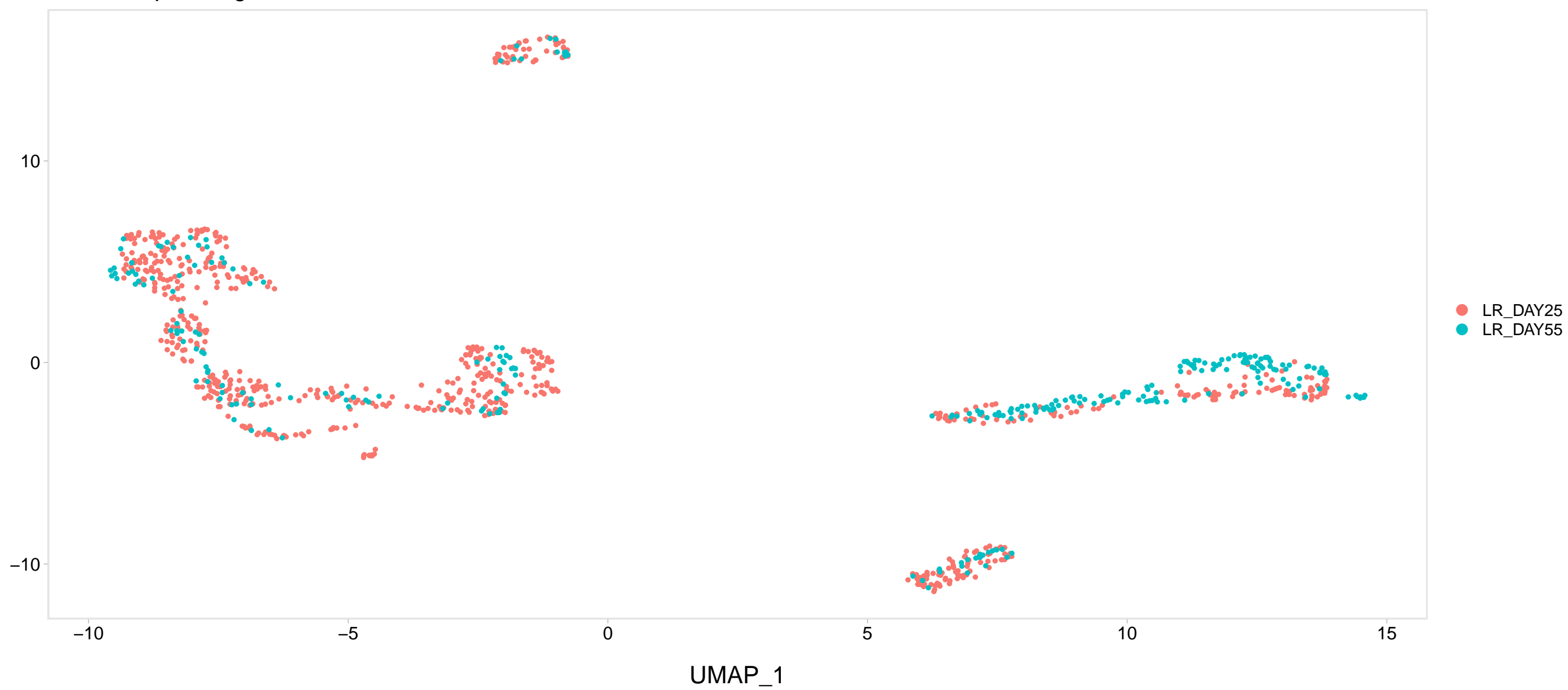
Harmony Integration (Days 25 + 55)

Long Read Isoform Level Counts

Long-Read Isoform-Level UMAP
Before Sample Integration

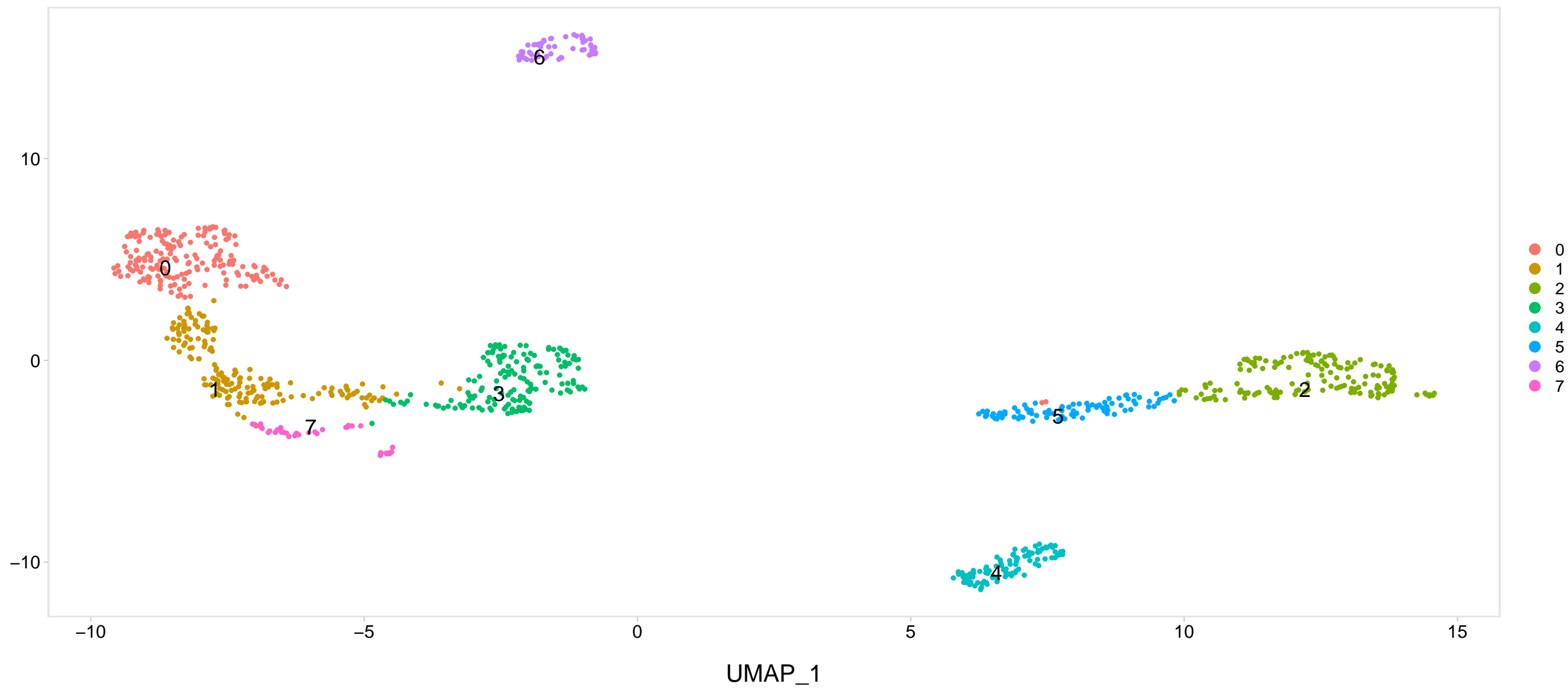


Long-Read Isoform-Level UMAP
After Sample Integration

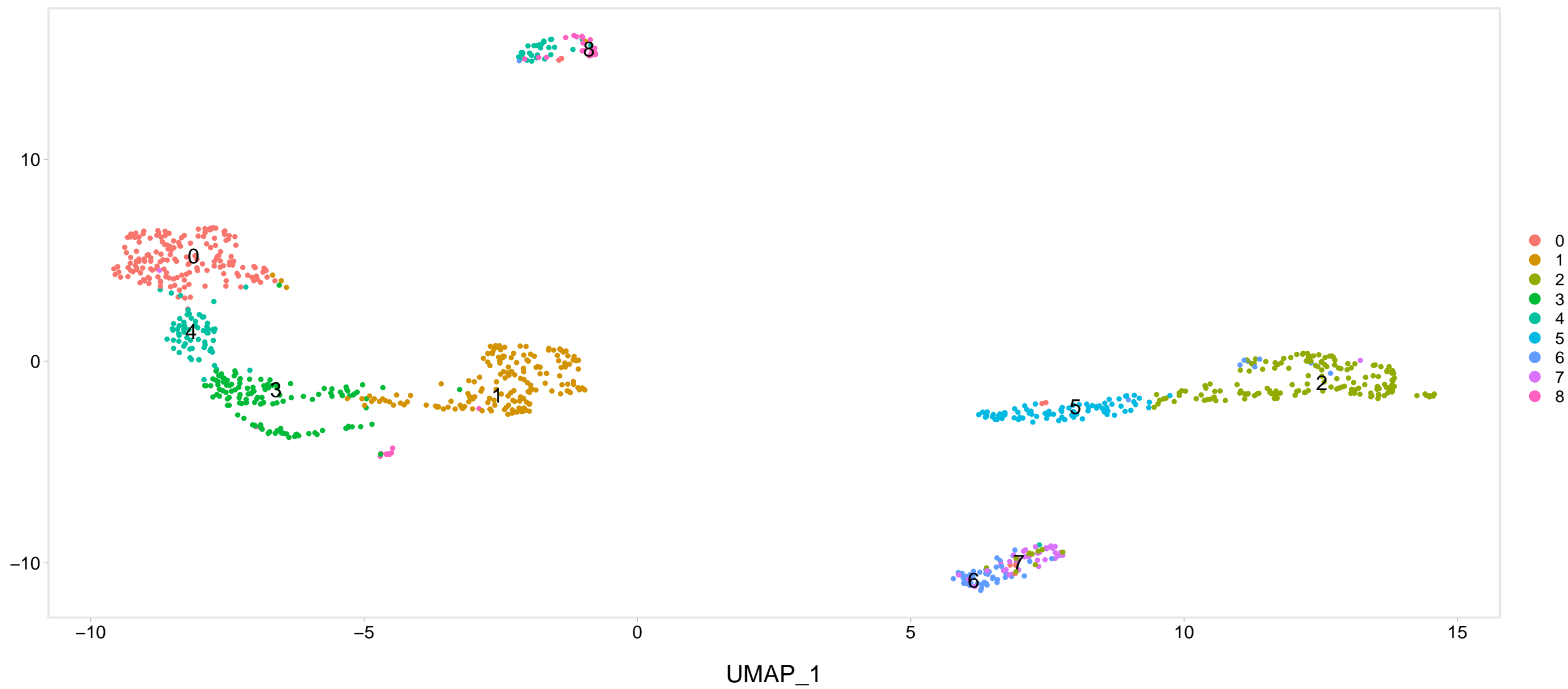


Before and After Transferring Labels derived from Gene-Level counts

Long-Read Isoform-Level UMAP
BEFORE Gene-Level Label Transfer



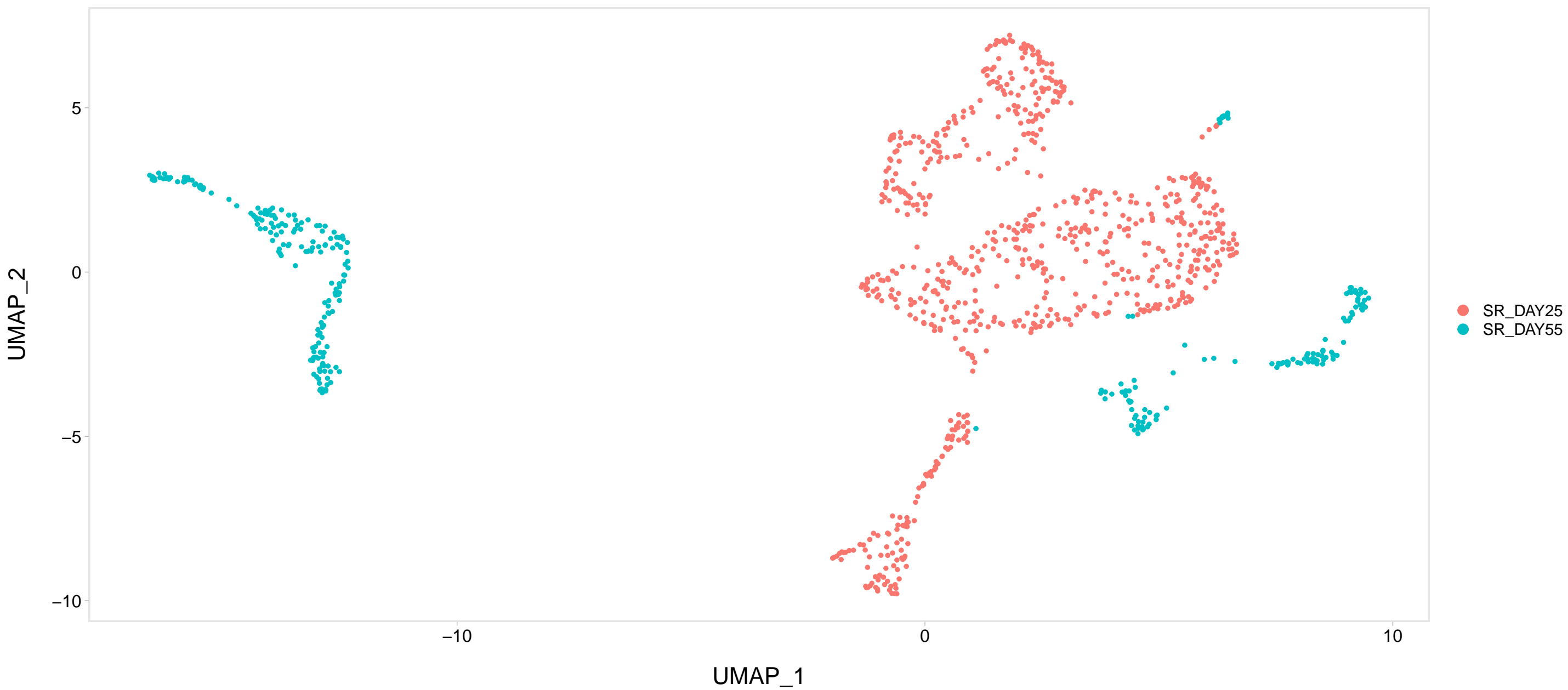
Long-Read Isoform-Level UMAP
AFTER Gene-Level Label Transfer



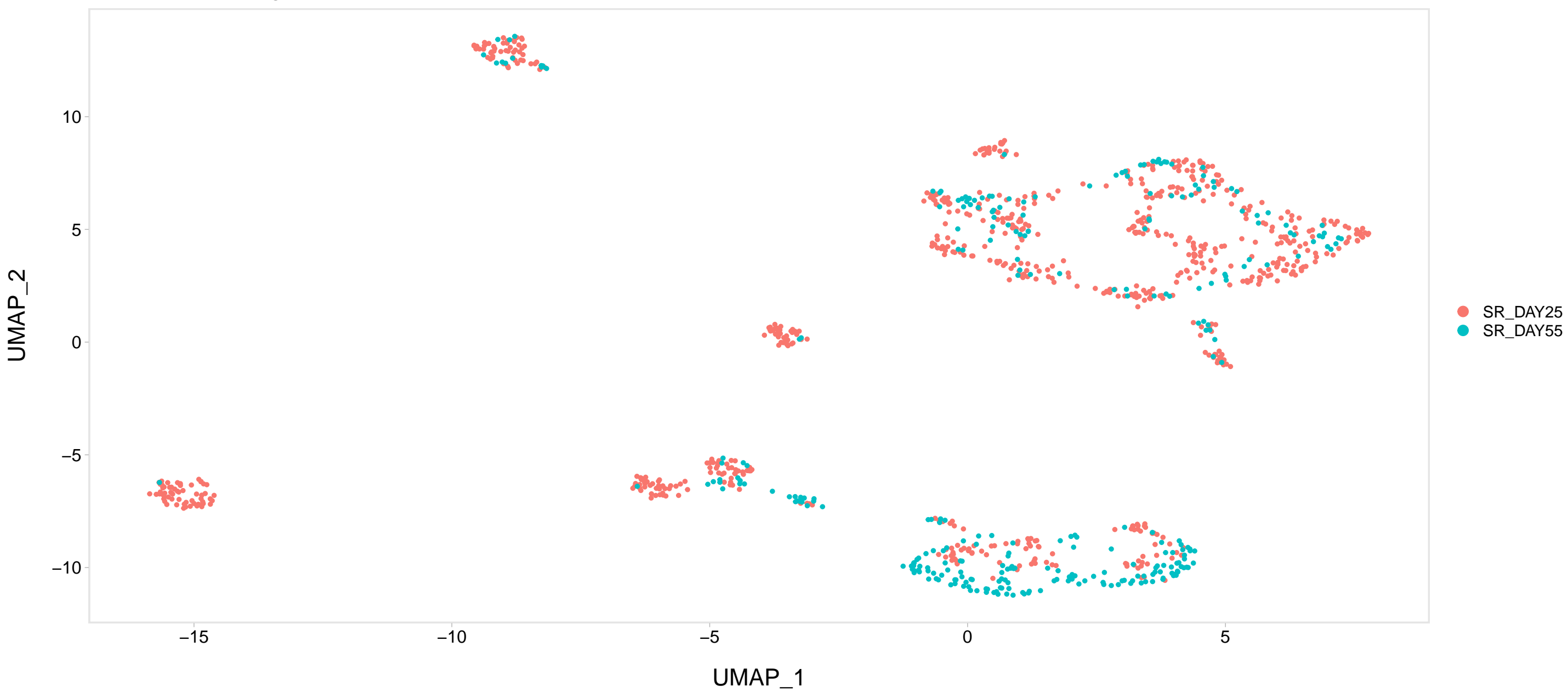
Harmony Integration (Days 25 + 55)

Short Read Counts

Short-Read Isoform-Level UMAP
Before Sample Integration



Short-Read Isoform-Level UMAP
After Sample Integration



Integrated Day 25 + 55
Short-Read Clusters
(NPCs = 12, Resolution = 0.3)

UMAP_2

10

5

0

-5

-10

-15

-10

-5

0

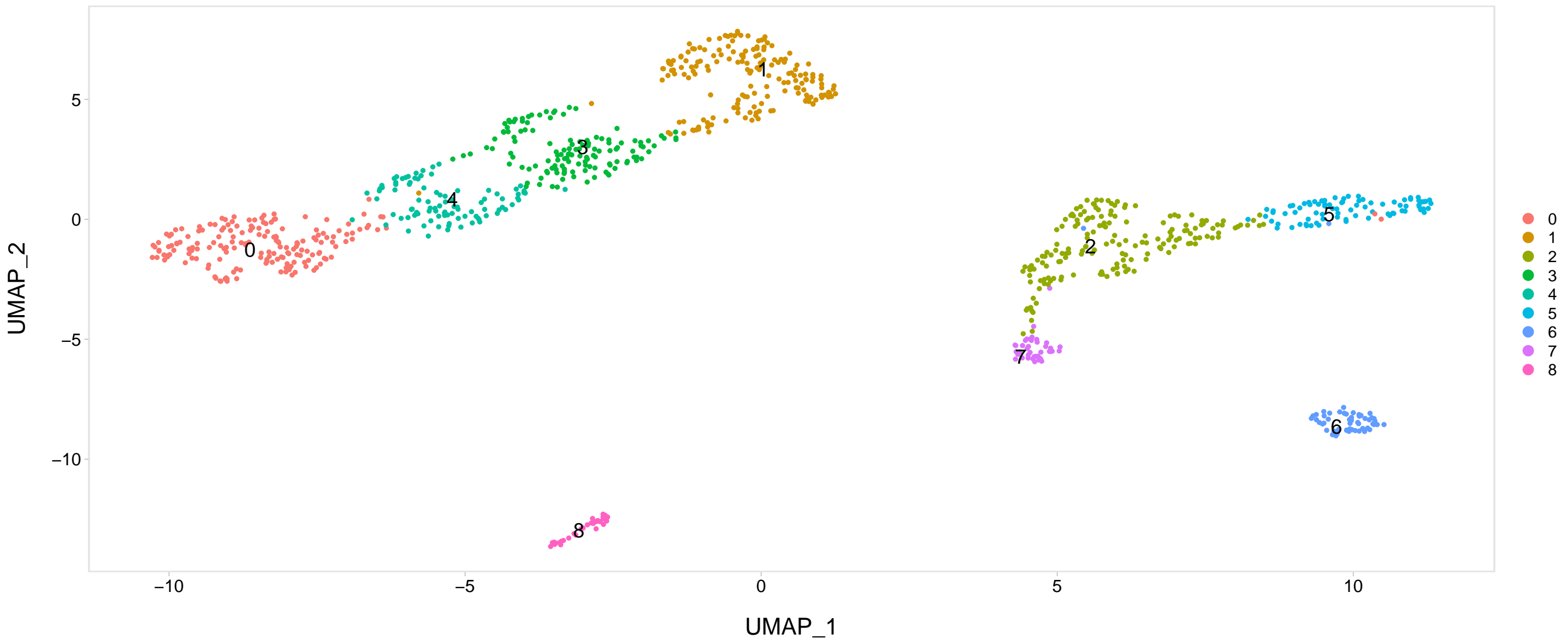
5

UMAP_1

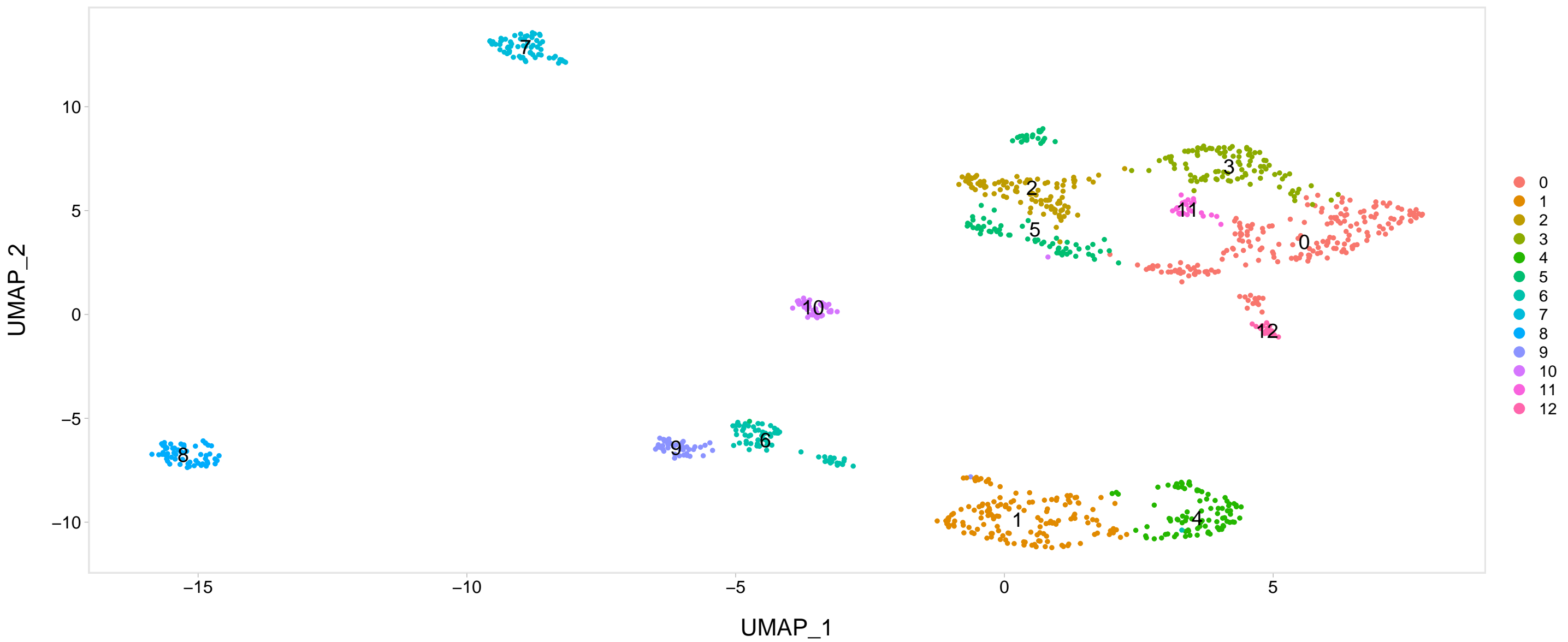


Unsupervised Clustering Comparison between SR and LR (gene level)

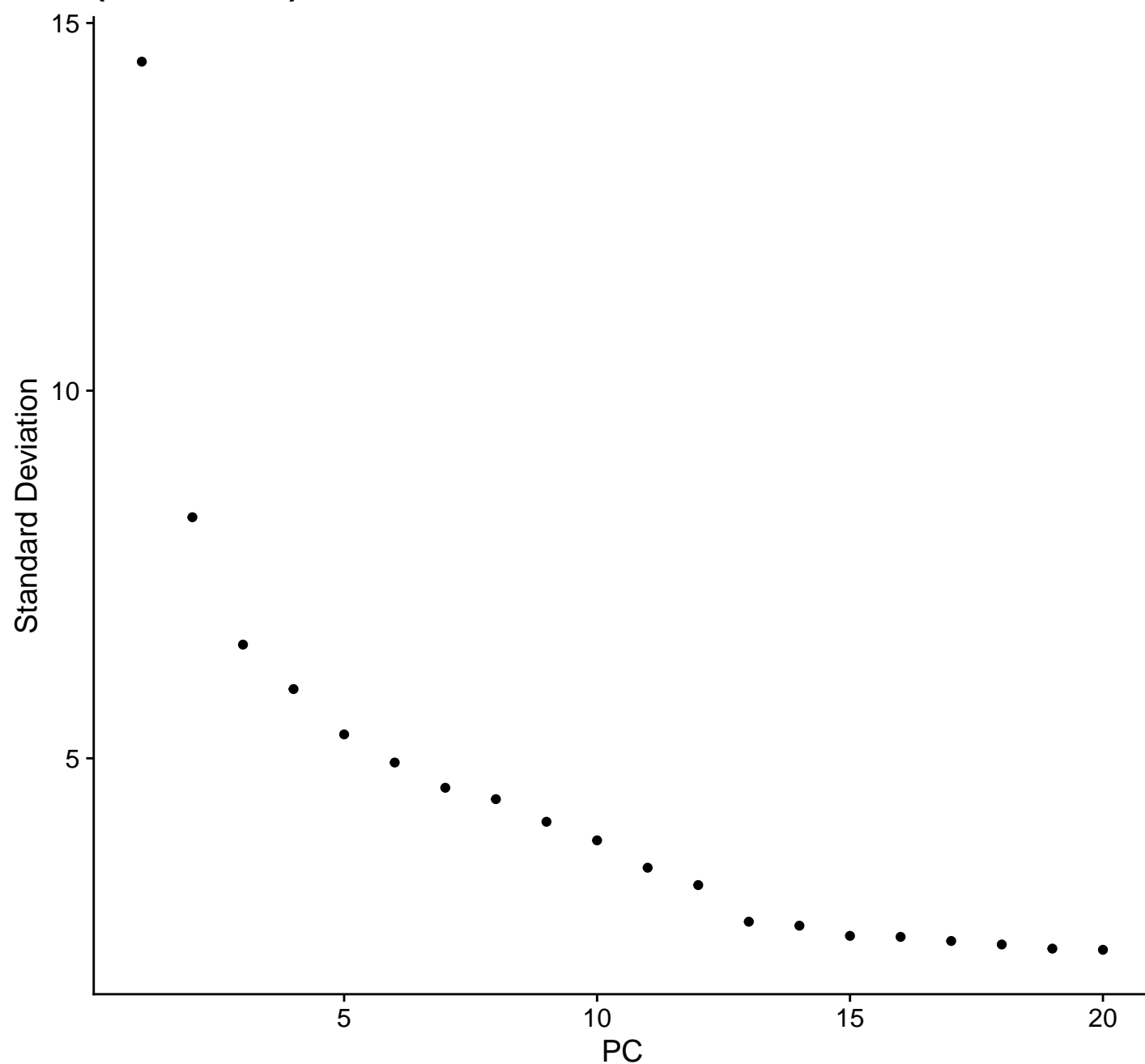
Integrated Day 25 + 55
Long-Read Gene Level Clusters
(NPCs = 12, Resolution = 0.5)



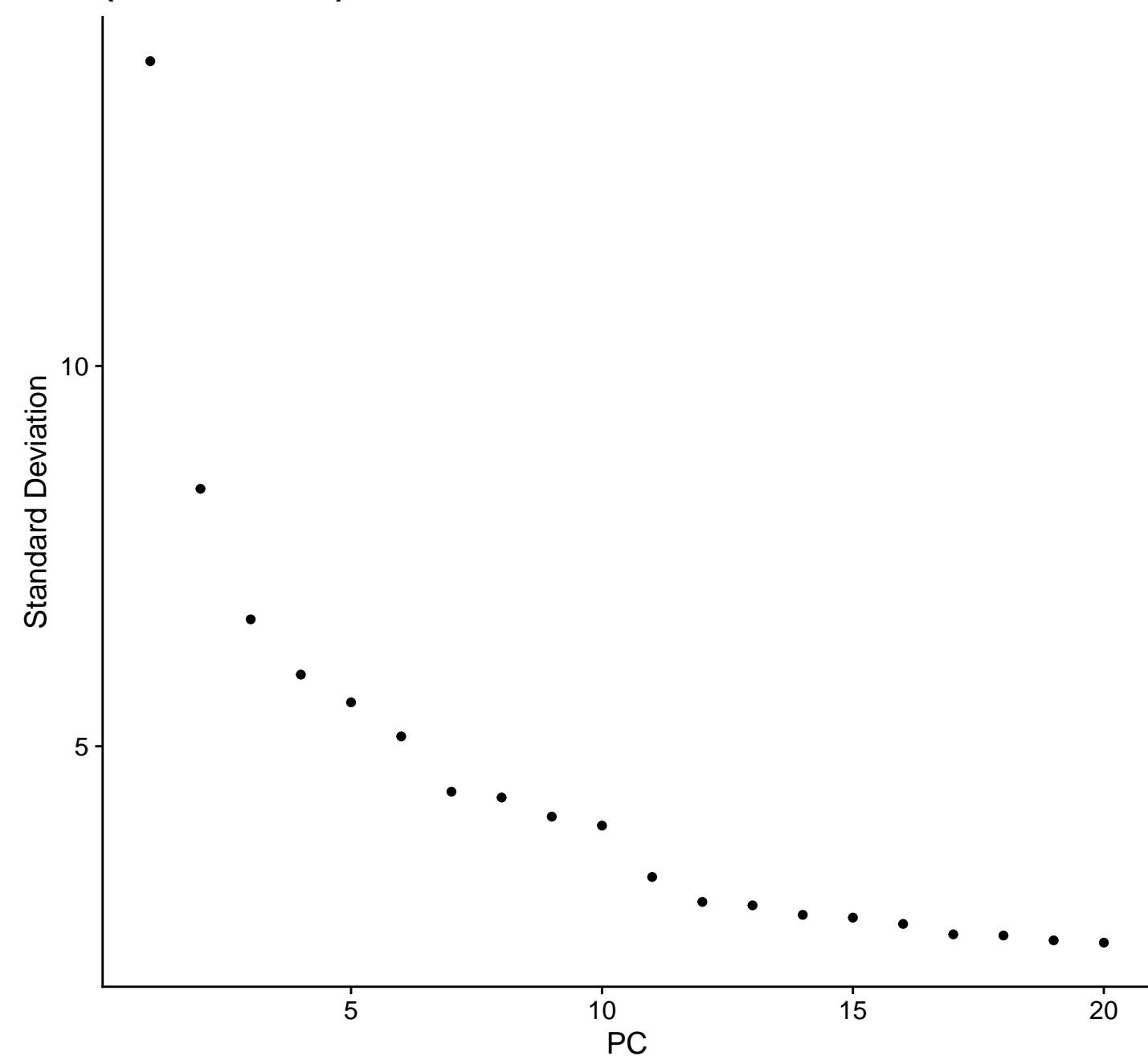
Integrated Day 25 + 55
Short-Read Clusters
(NPCs = 12, Resolution = 0.3)



**Elbow Plot – Integrated Long Reads
(Gene Level)**



**Elbow Plot – Integrated Long Reads
(Isoform Level)**



Elbow Plot – Integrated Short Reads

