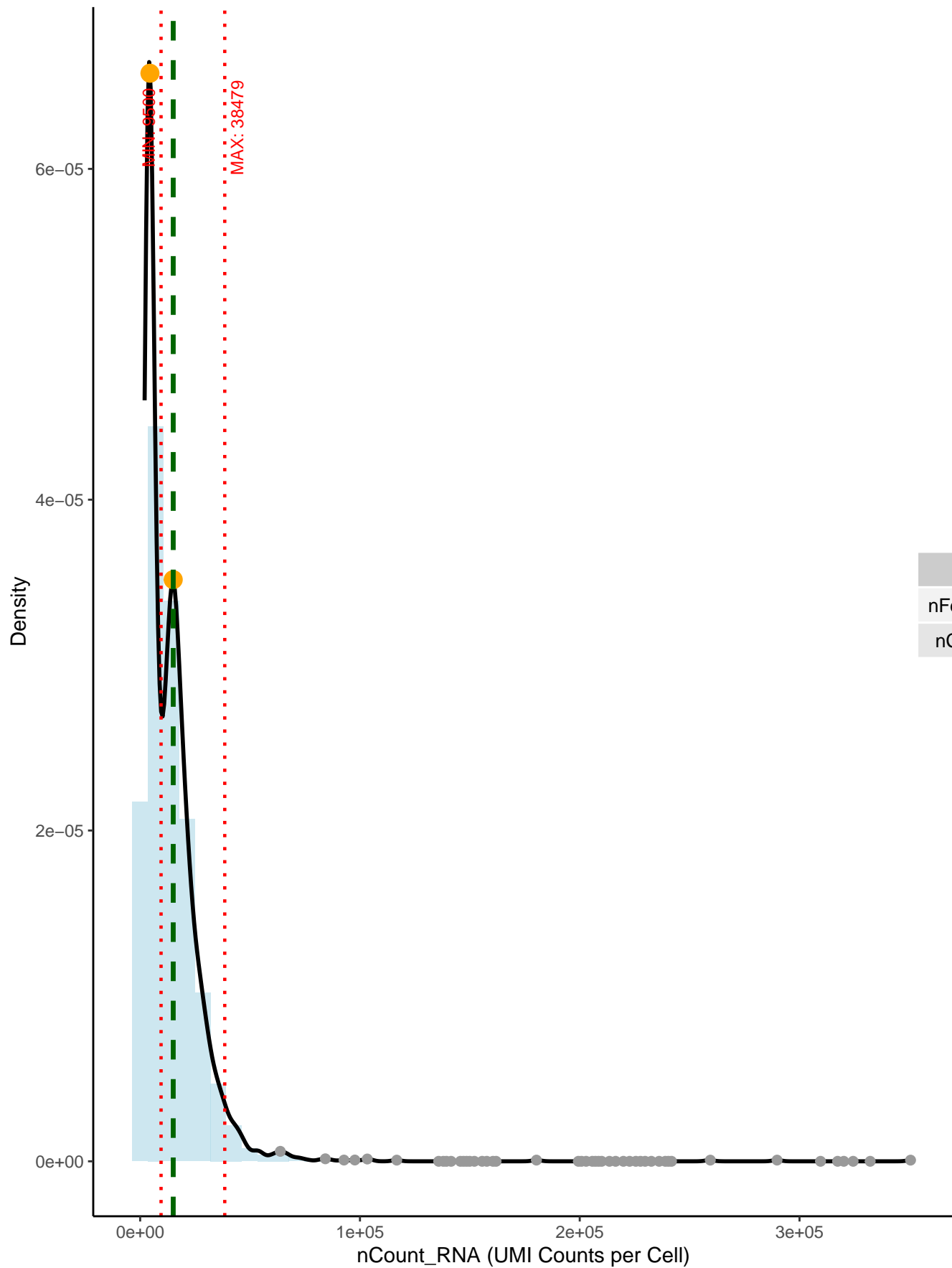


org_1B – Adaptive Threshold Determination

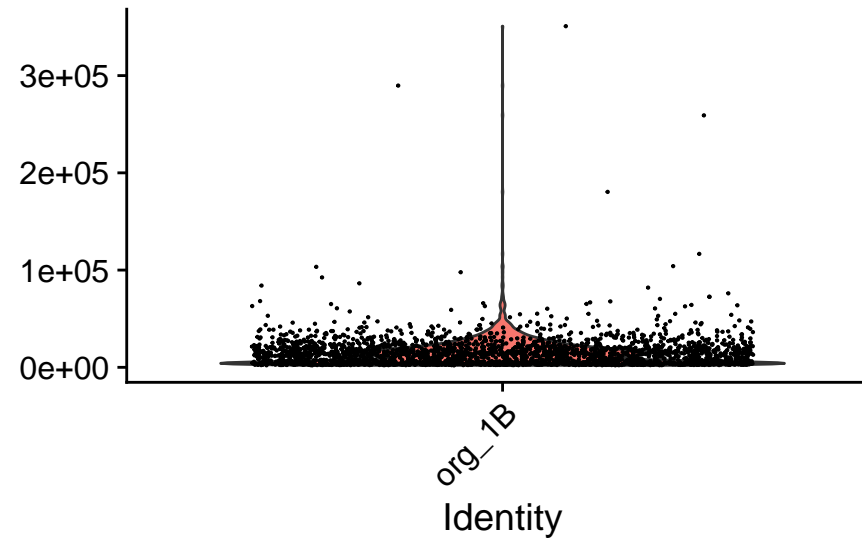
org_1B: nCount_RNA (UMI Counts per Cell) Distribution

Method: peak | Selected peak: 15038.8 | Total peaks: 49 | Top 2 peaks used

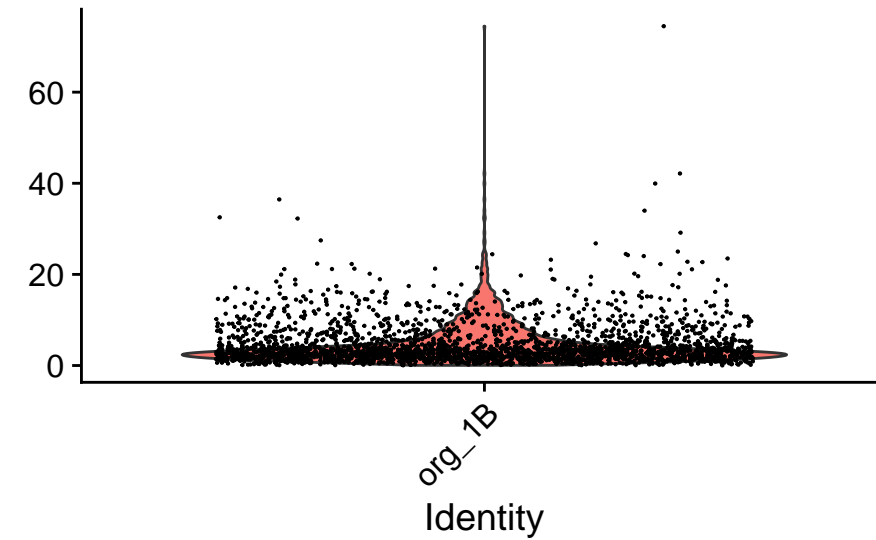


Metric	Method	Selected_Peak	Total_Peaks	Top2_Peaks	SD	MIN_Threshold	MAX_Threshl
nFeature_RNA	custom	NA	NA	NA	NA	2500	9326
nCount_RNA	peak	15039	49	4444, 15039	15627	9500	38479

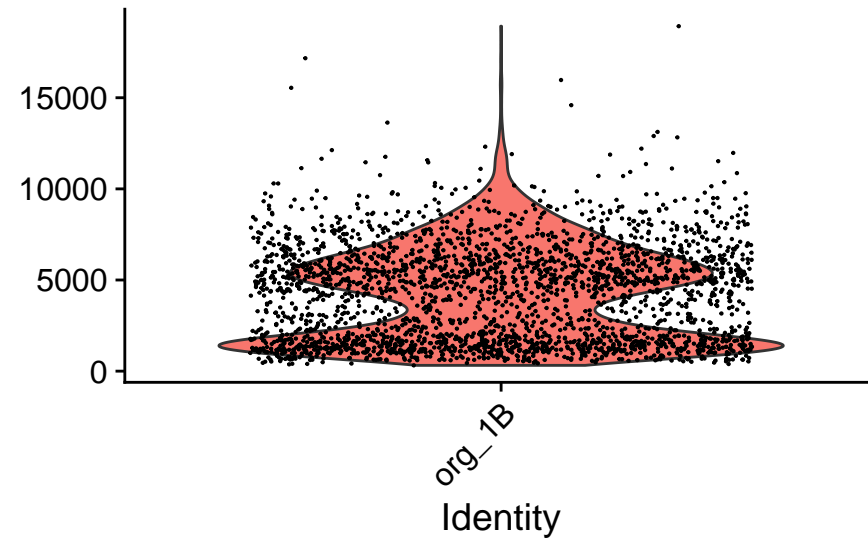
org_1B – Filtering Summary
org_1B: Counts Before Filtering



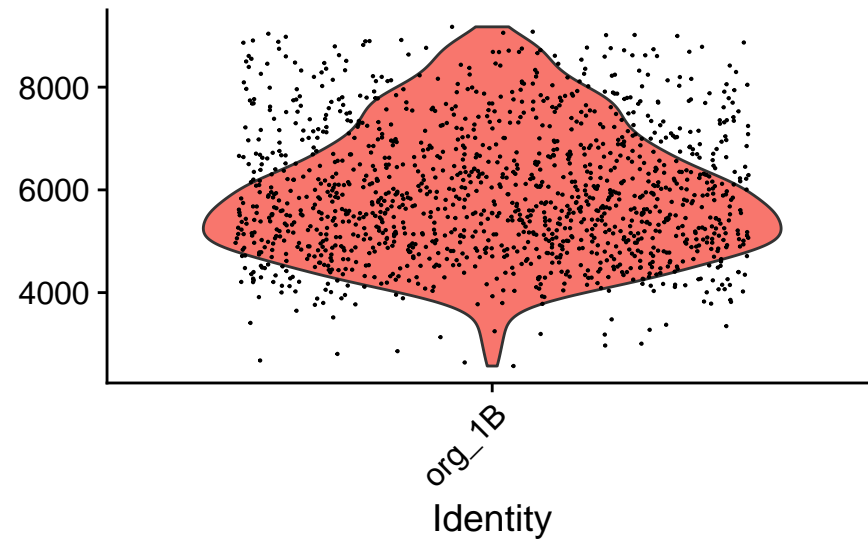
org_1B: MT% Before Filtering



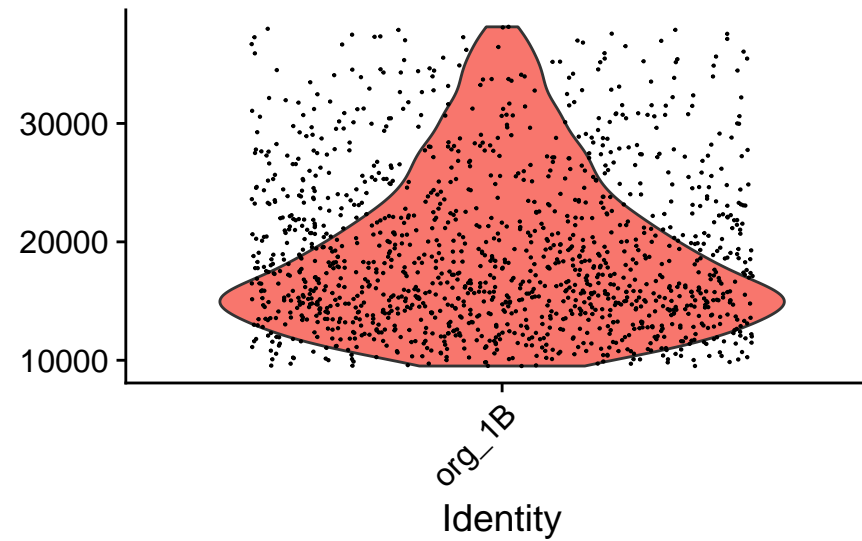
org_1B: Genes Before Filtering



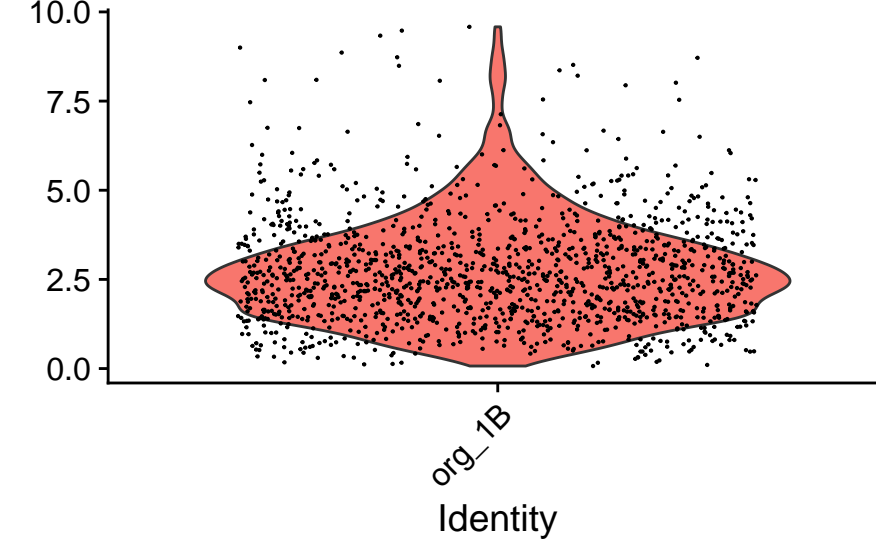
org_1B: Genes After Filtering



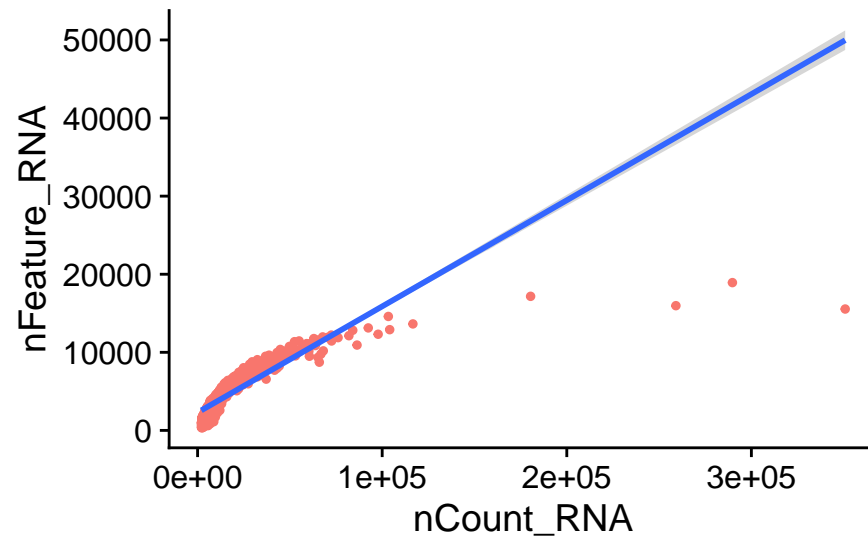
org_1B: Counts After Filtering



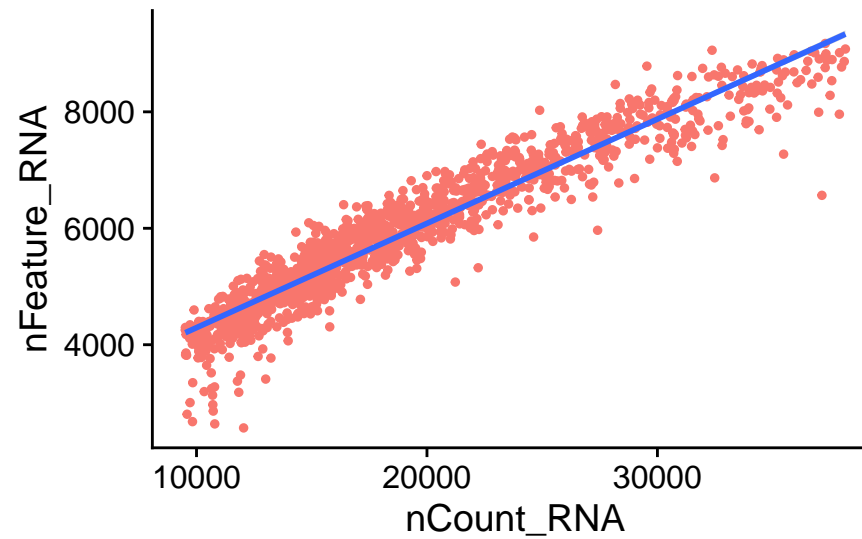
org_1B: MT% After Filtering



org_1B: Before Filtering



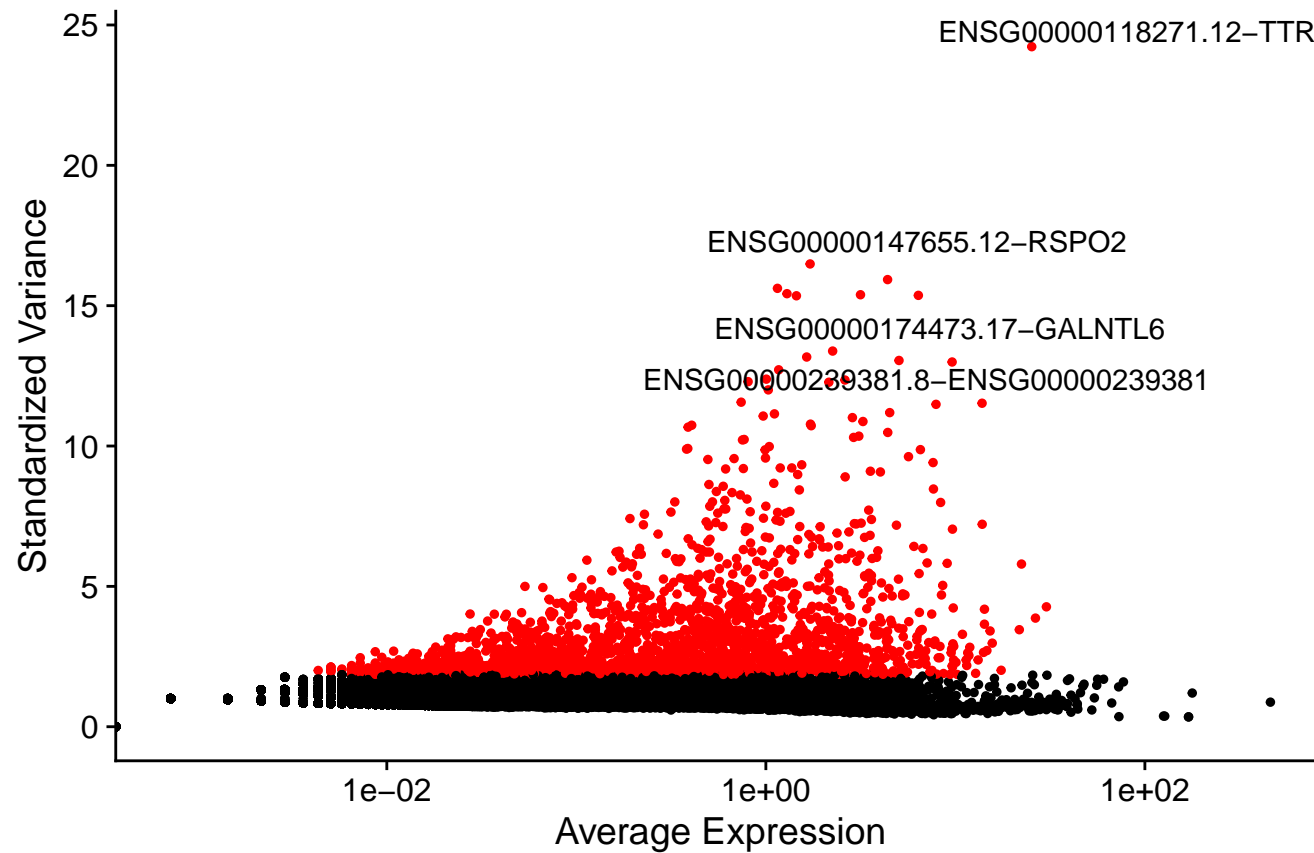
org_1B: After Filtering



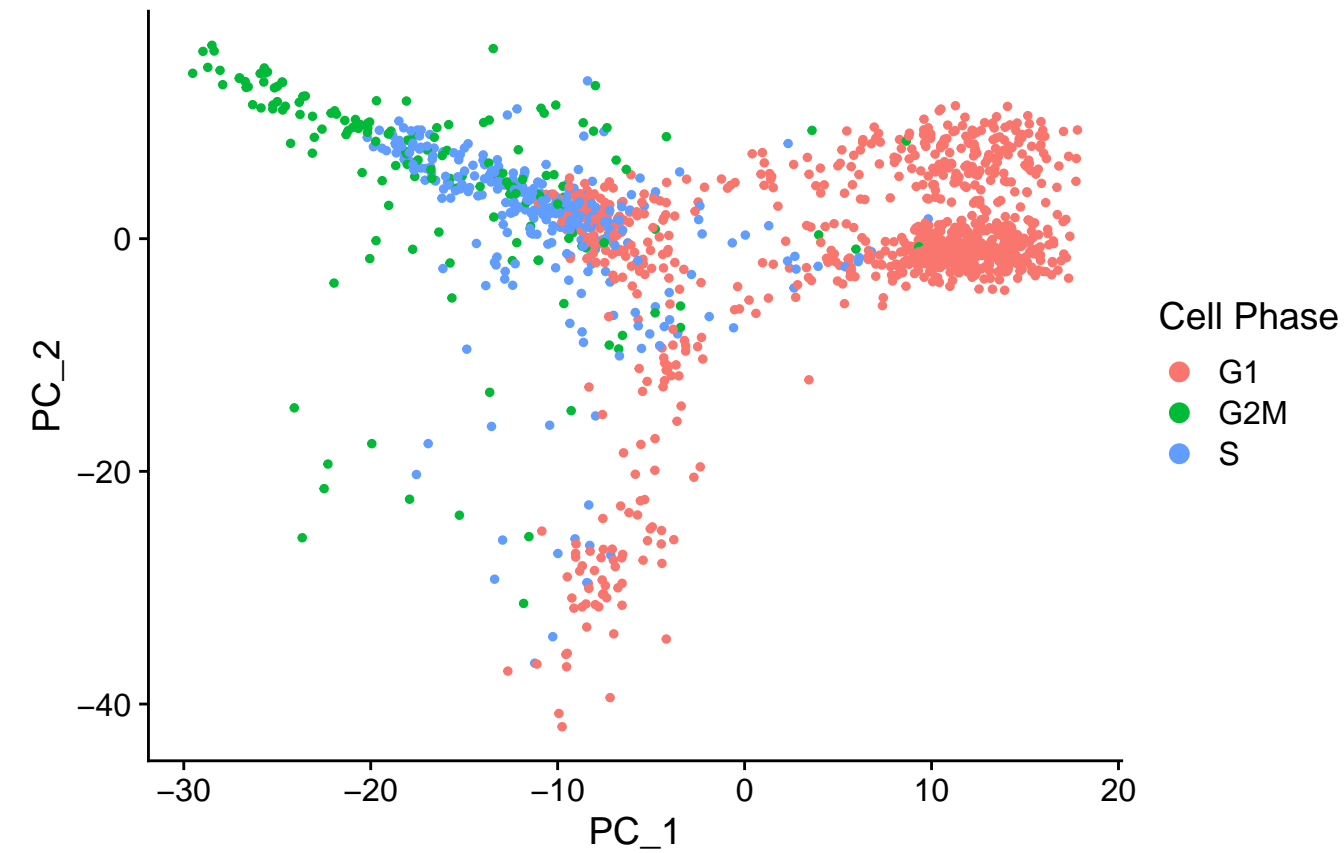
	Metric	Before	After
1	Cells	2716.000000	1381.000000
2	Genes	42332.000000	42332.000000
3	Median nCount	11774.500000	17479.000000
4	Median nFeature	4403.500000	5771.000000
5	Median MT%	3.029187	2.543053

org_1B – Variable Features & Cell Cycle

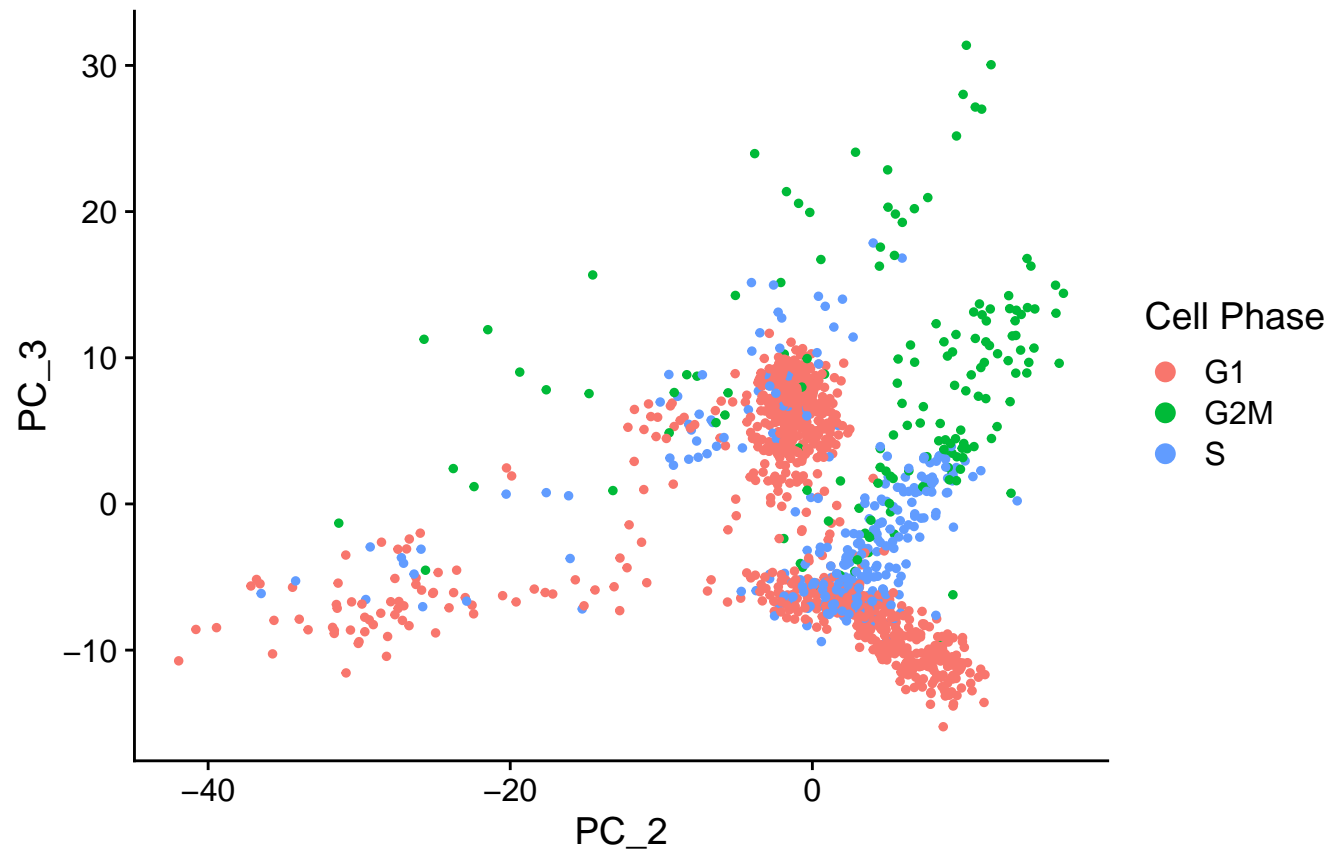
org_1B: Top 2000 Variable Genes



org_1B: Cell Cycle on PC1 & PC2



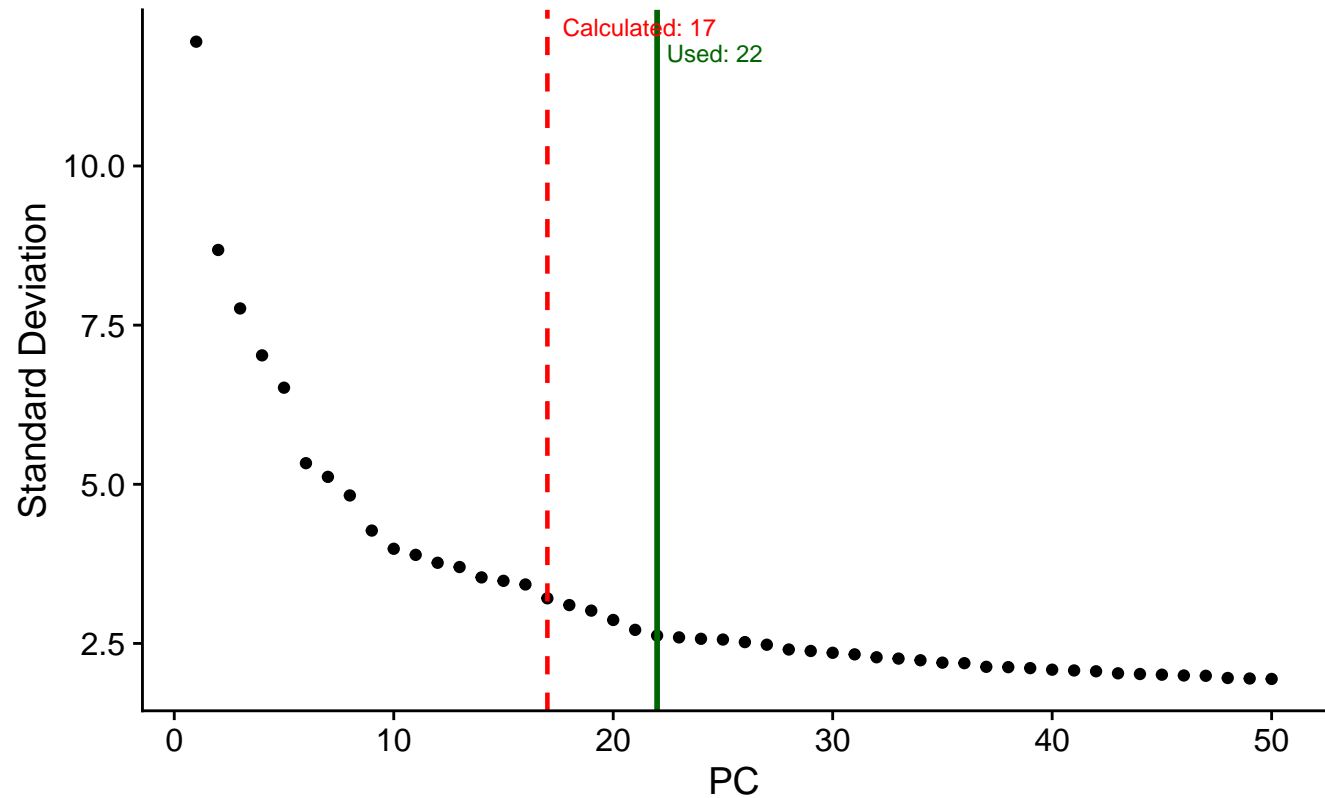
org_1B: Cell Cycle on PC2 & PC3



org_1B – PCA Selection & Silhouette Analysis

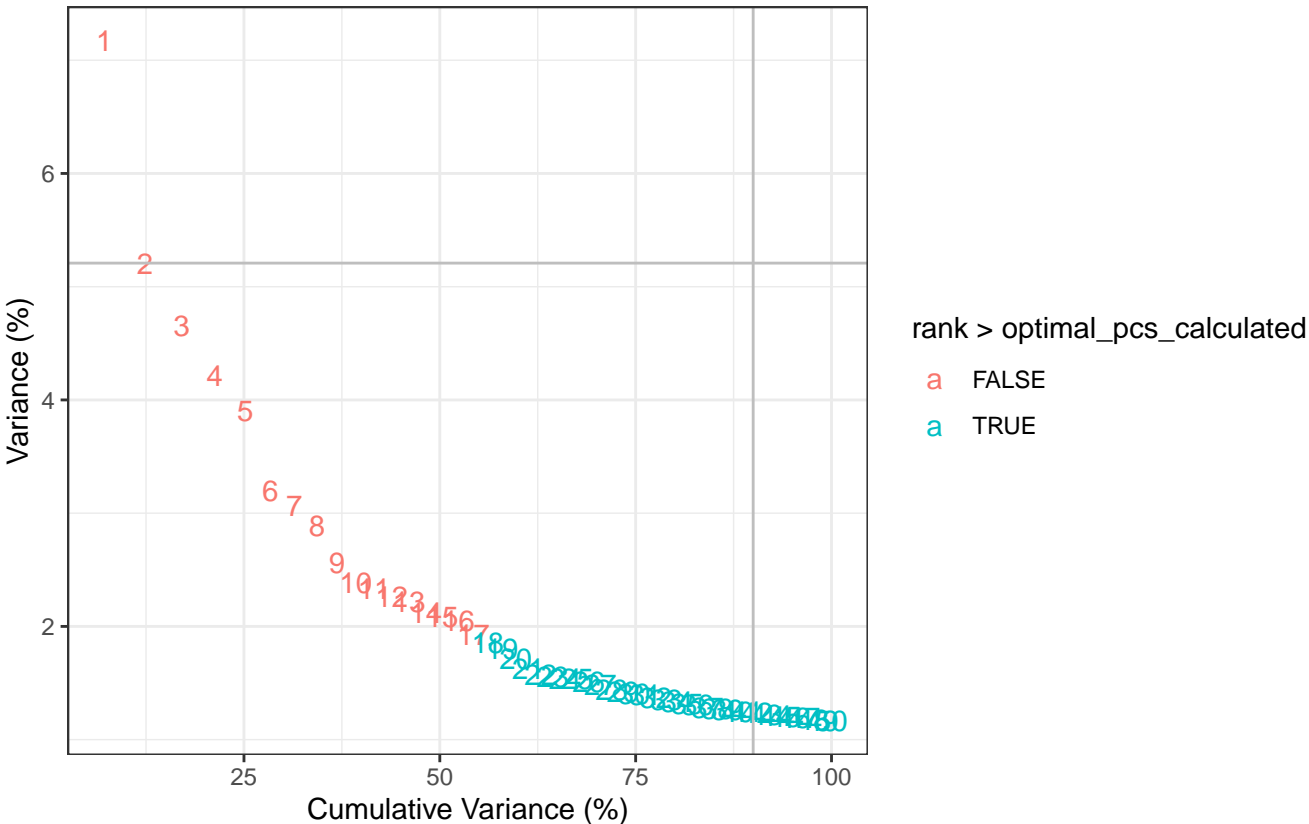
org_1B: Elbow Plot

Calculated: 17 PCs | Used: 22 PCs (+5)

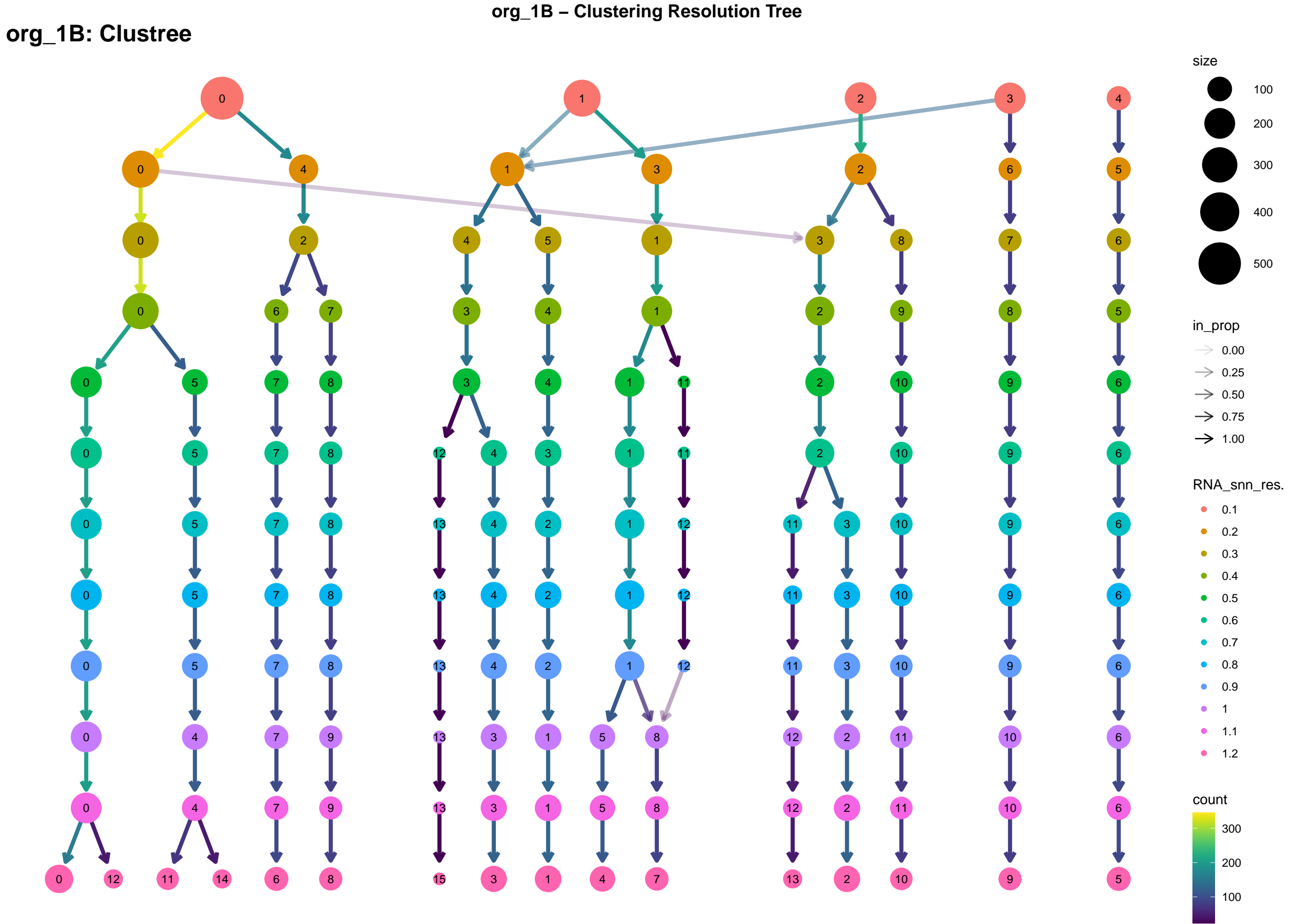


org_1B: Quantitative PC Selection

Calculated: 17 PCs | Used: 22 PCs (+5)

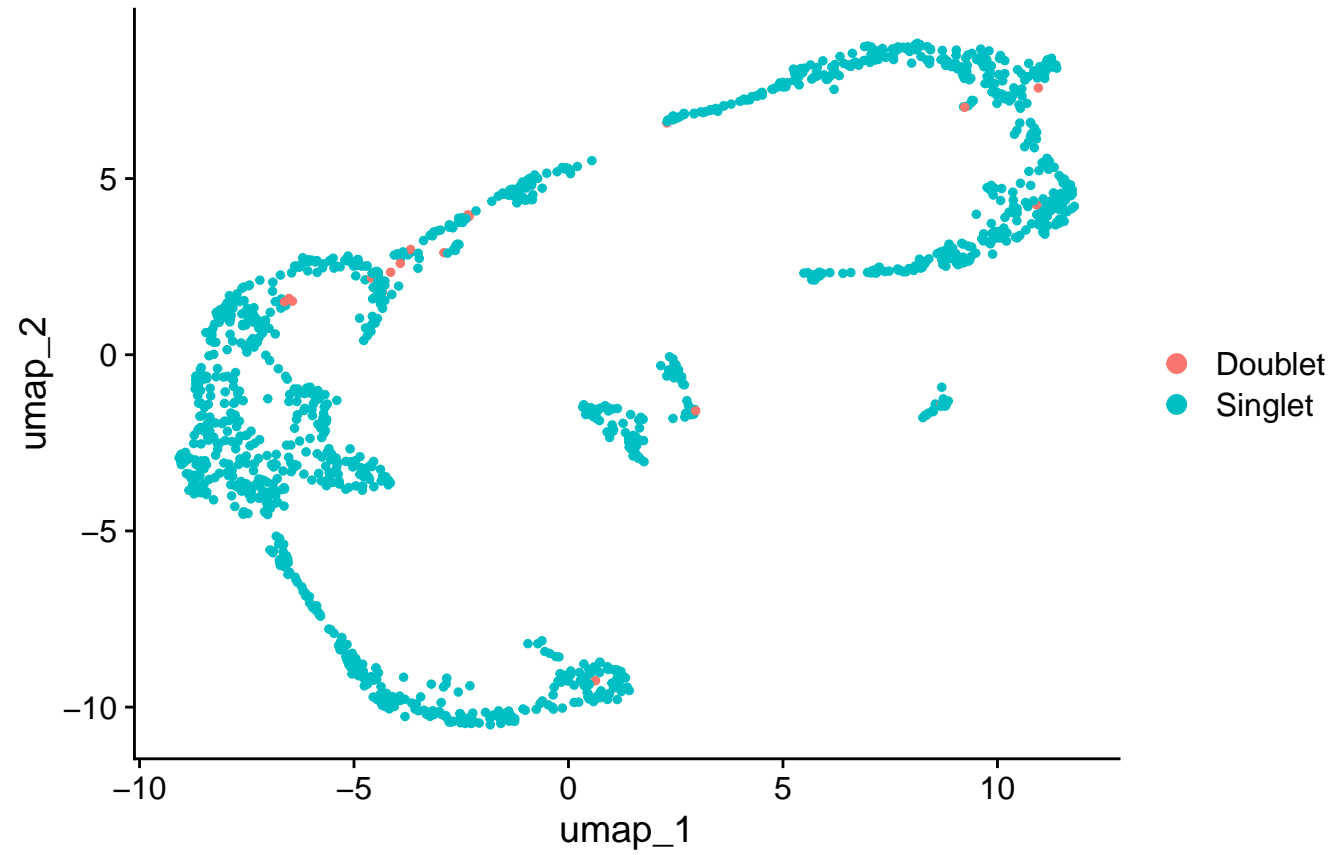


	res_vals	num_clusters	avg_sil_vals
1	0.3	9	0.369902796929745
2	0.4	10	0.361363869214392
3	0.2	7	0.353373351080964
4	0.1	5	0.332409255973207
5	0.5	12	0.281168823931882
6	0.7	14	0.259750677046559
7	0.6	13	0.25002087727607
8	1.2	16	0.233673131821511

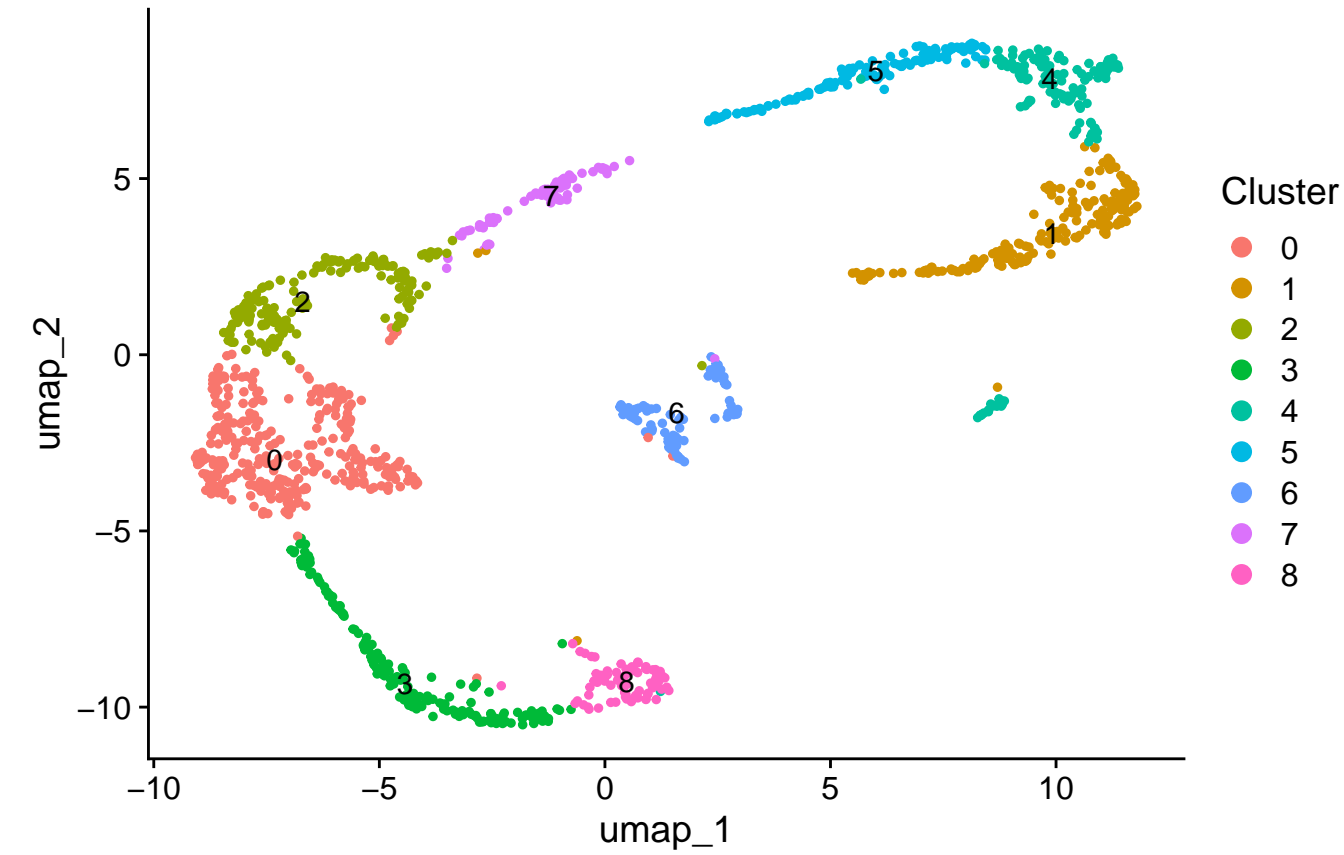


org_1B – UMAP & Doublet Removal

org_1B: Doublets Detected



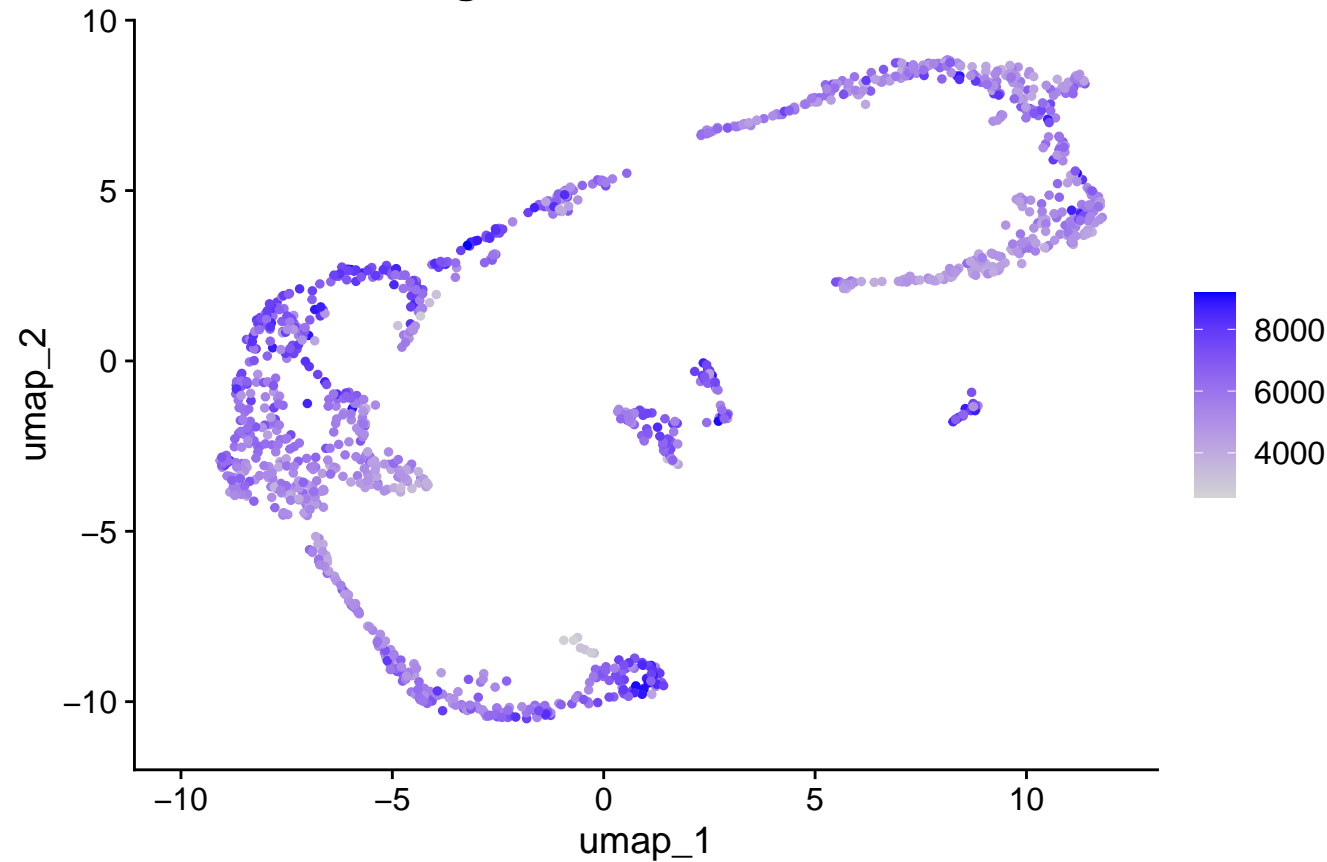
org_1B: Final UMAP



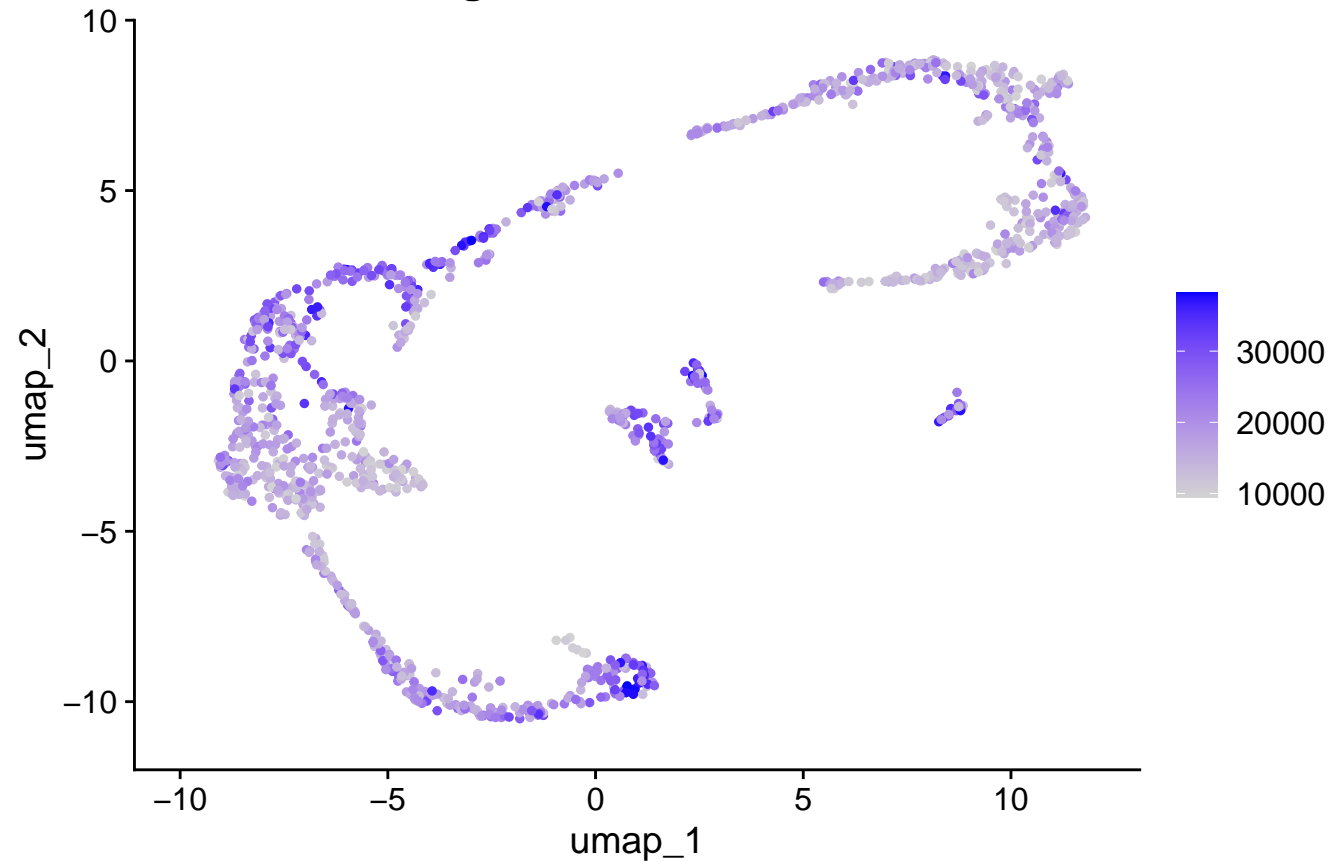
	DF.classifications	median_nCount	median_nFeature	count
1	Doublet	26568	7163	19
2	Singlet	17427	5753	1362

org_1B – QC Metrics & Cell Cycle on UMAP

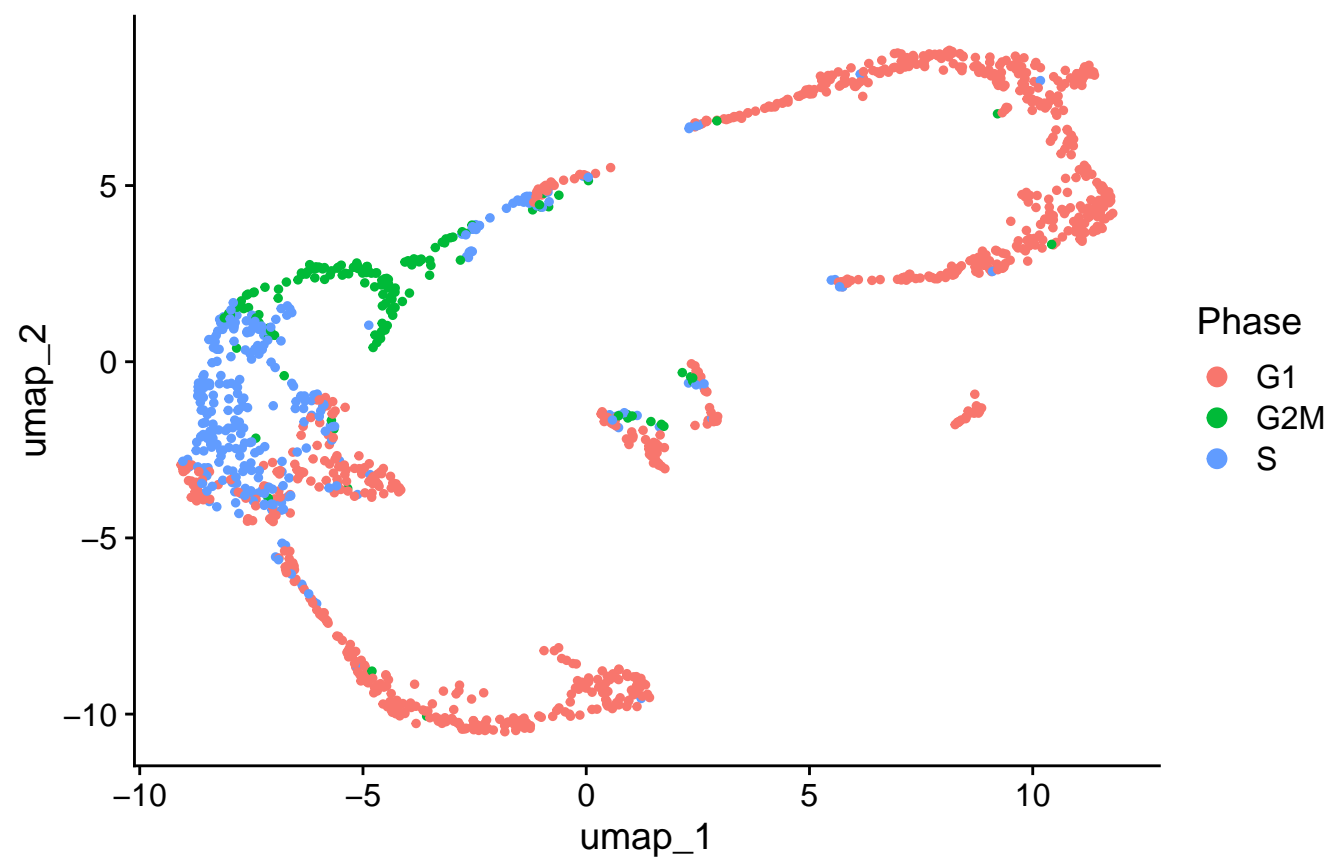
org_1B: nFeature_RNA



org_1B: nCount_RNA



org_1B: Cell Cycle Phase



org_1B: Final UMAP

