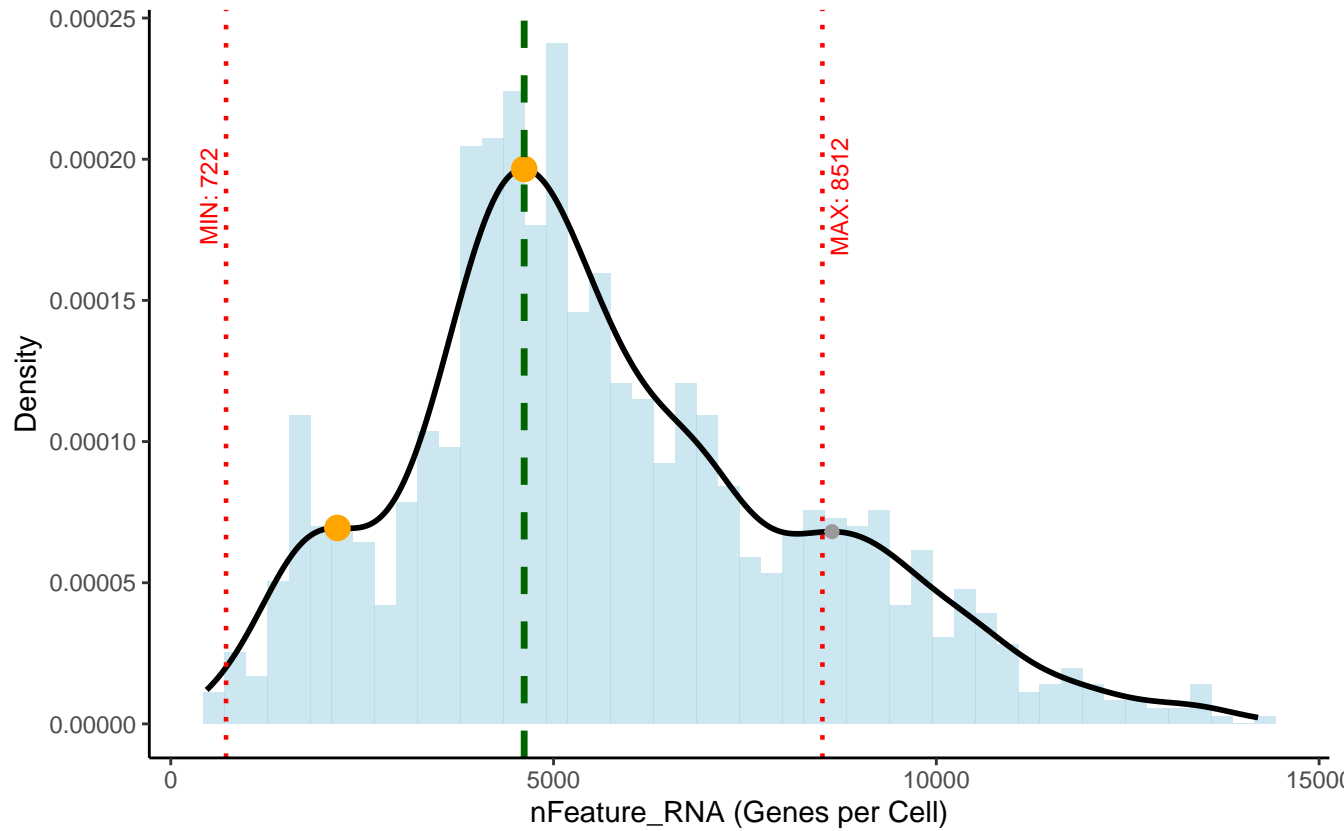


org_6C – Adaptive Threshold Determination

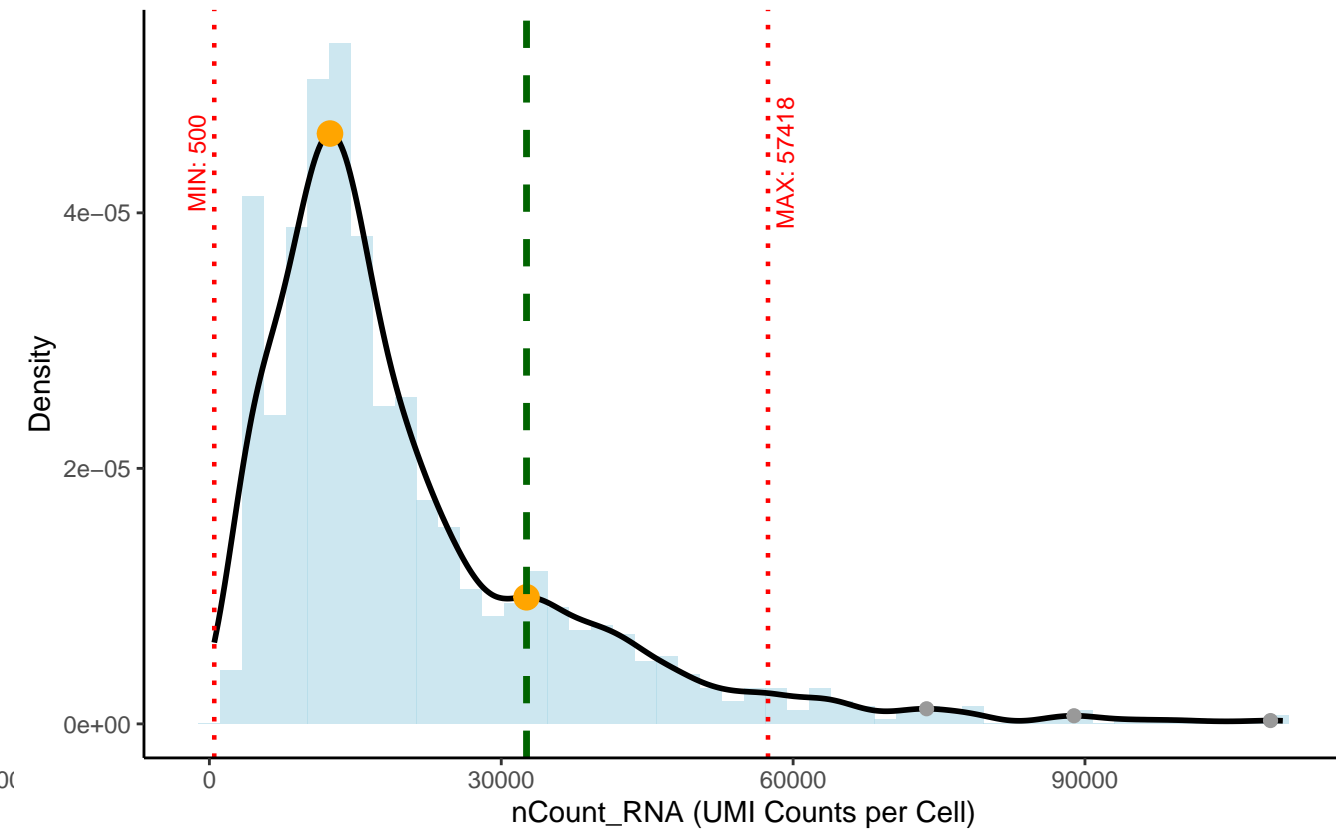
org_6C: nFeature_RNA (Genes per Cell) Distribution

Method: peak | Selected peak: 4616.6 | Total peaks: 3 | Top 2 peaks used



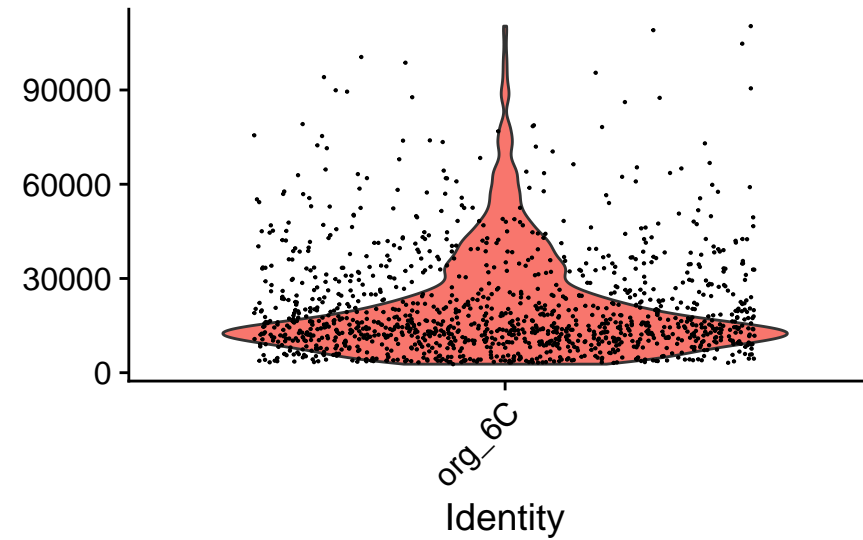
org_6C: nCount_RNA (UMI Counts per Cell) Distribution

Method: peak | Selected peak: 32599.3 | Total peaks: 5 | Top 2 peaks used

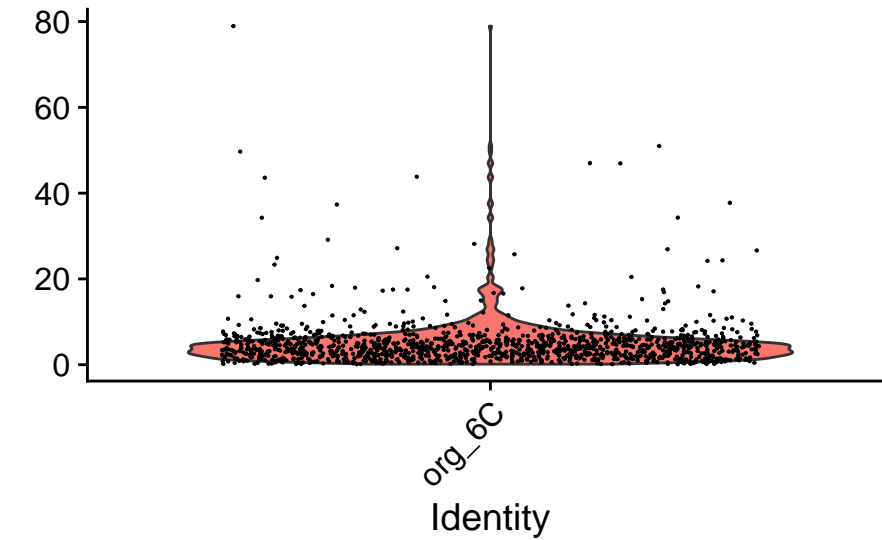


Metric	Method	Selected_Peak	Total_Peaks	Top2_Peaks	SD	MIN_Threshold	MAX_Threshold
nFeature_RNA	peak	4617	3	4617, 2178	2597	722	8512
nCount_RNA	peak	32599	5	12398, 32599	16546	500	57418

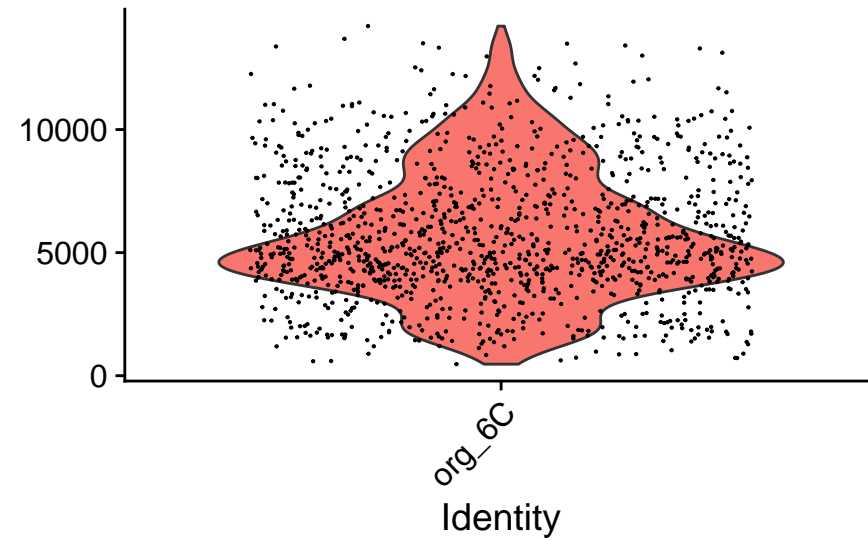
org_6C – Filtering Summary
org_6C: Counts Before Filtering



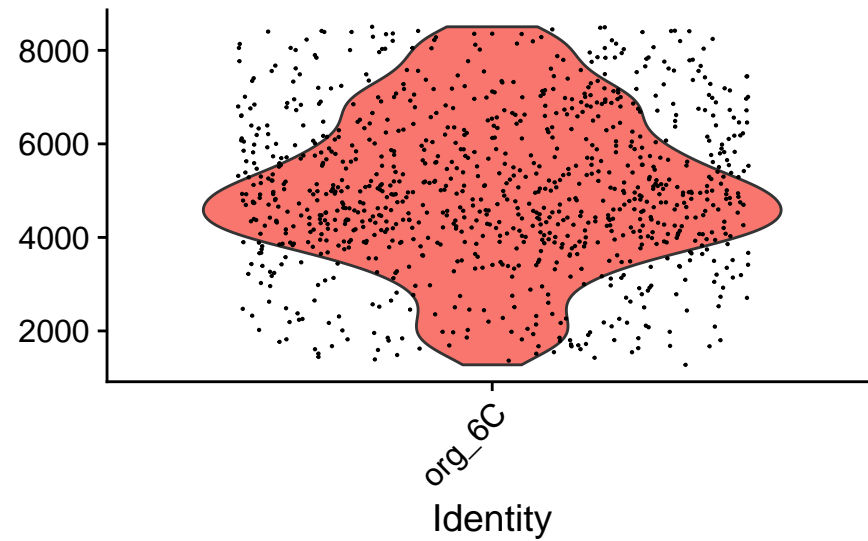
org_6C: MT% Before Filtering



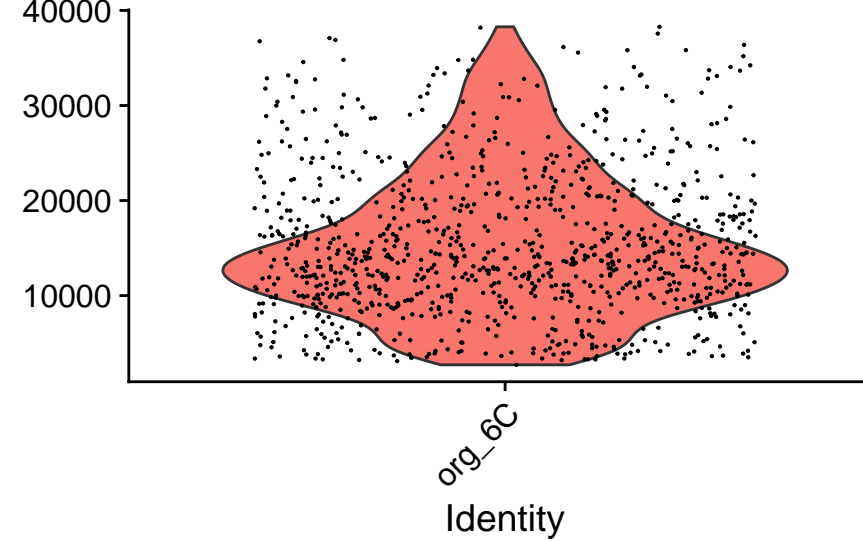
org_6C: Genes Before Filtering



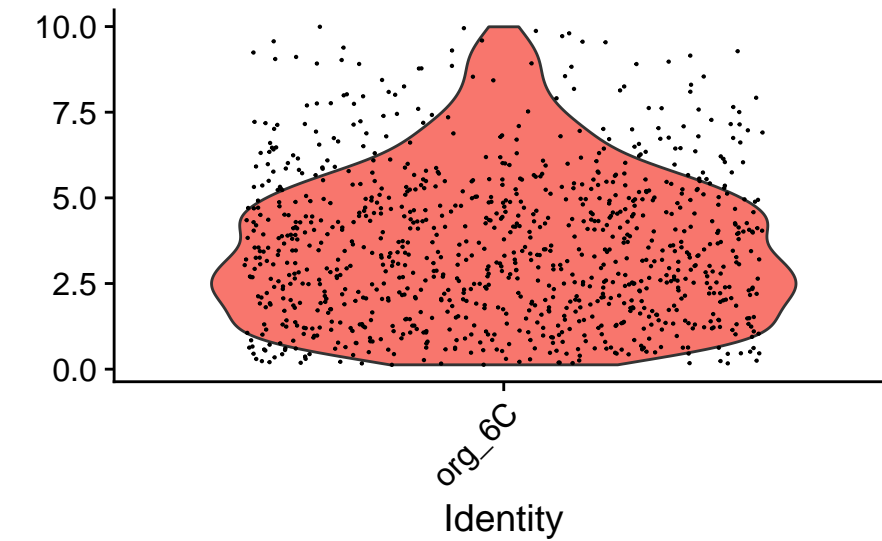
org_6C: Genes After Filtering



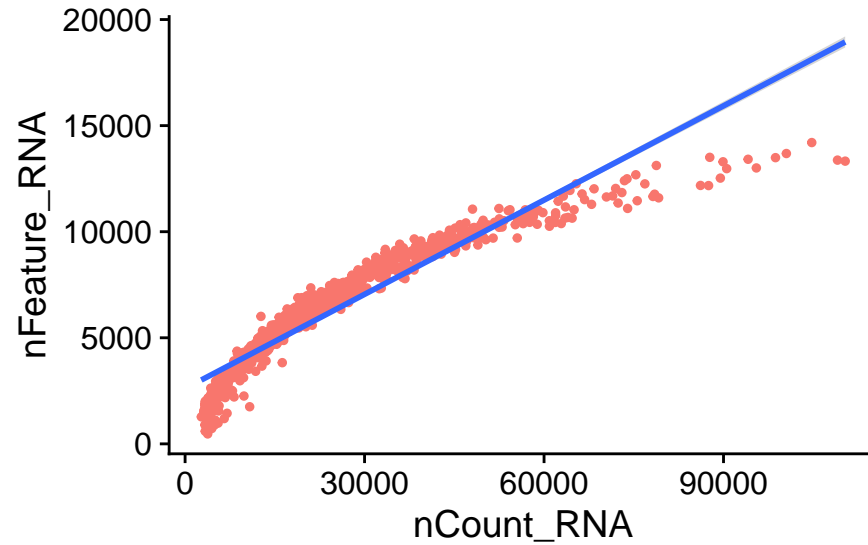
org_6C: Counts After Filtering



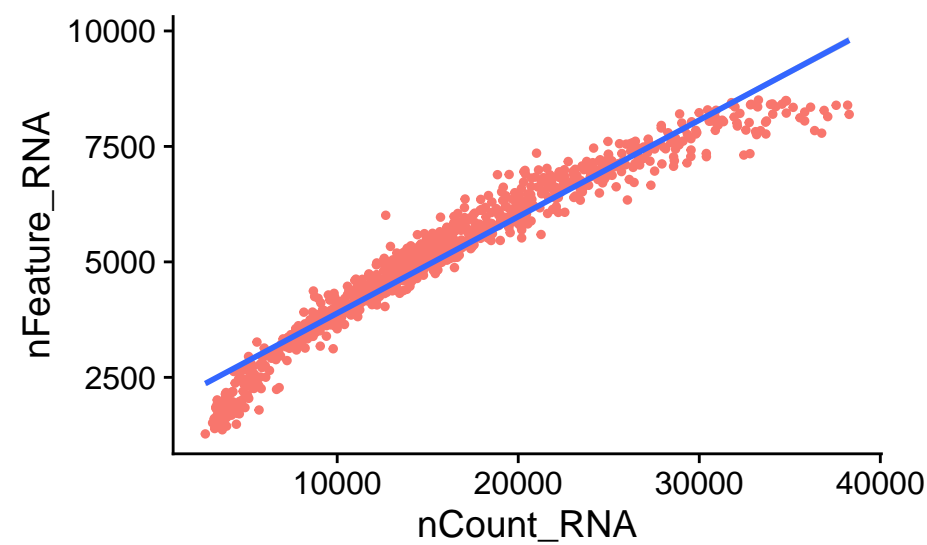
org_6C: MT% After Filtering



org_6C: Before Filtering



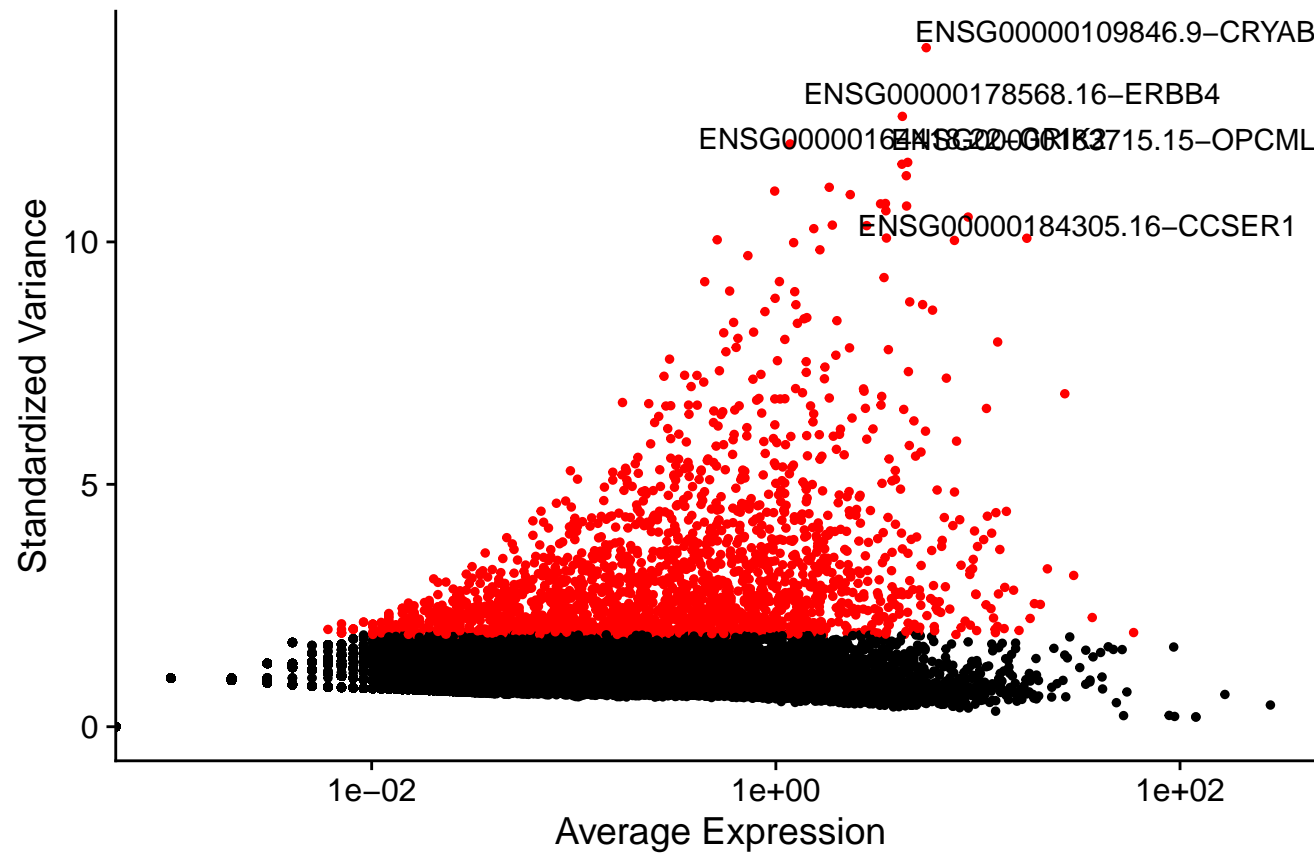
org_6C: After Filtering



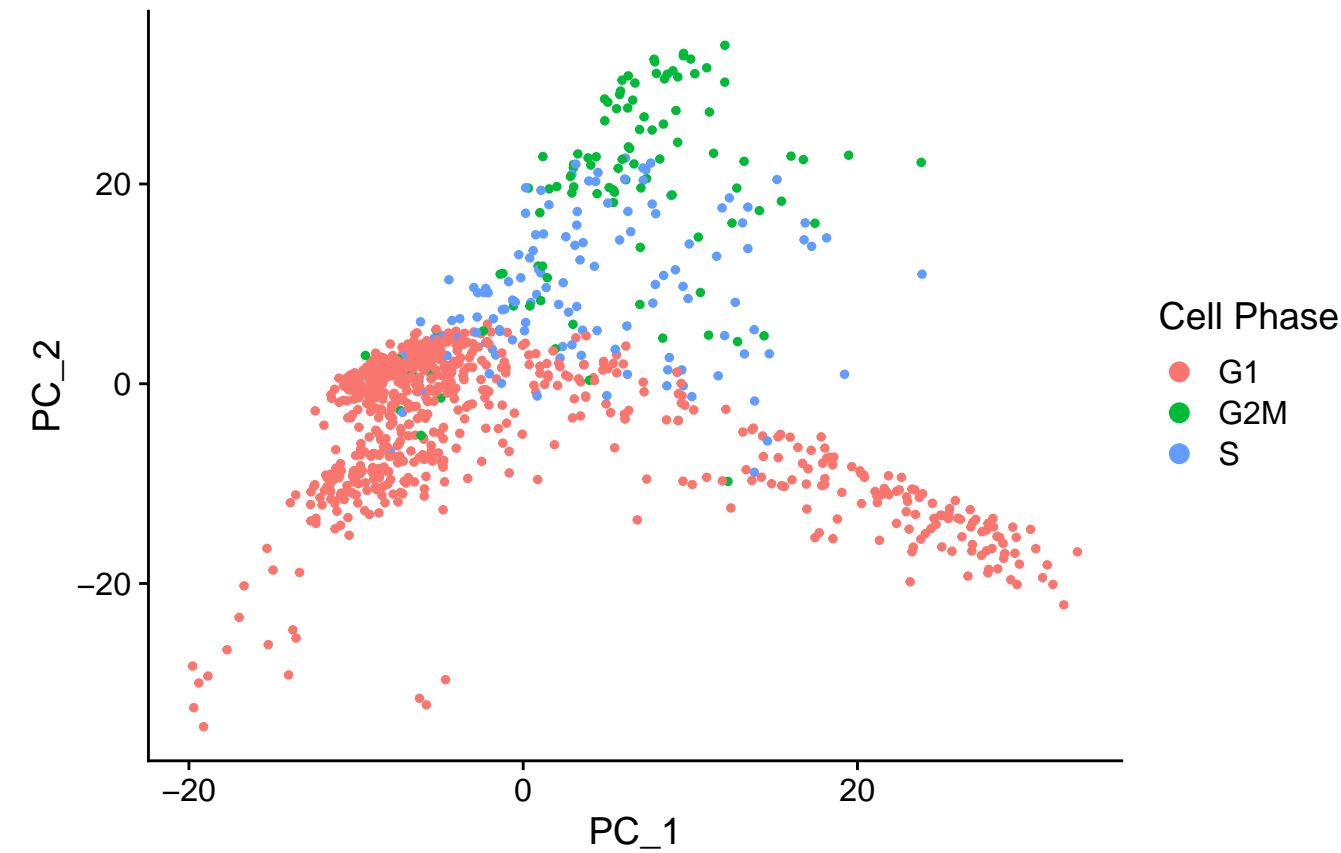
	Metric	Before	After
1	Cells	1274.000000	987.000000
2	Genes	40115.000000	40115.000000
3	Median nCount	15290.500000	13988.000000
4	Median nFeature	5169.500000	4936.000000
5	Median MT%	3.975554	3.334182

org_6C – Variable Features & Cell Cycle

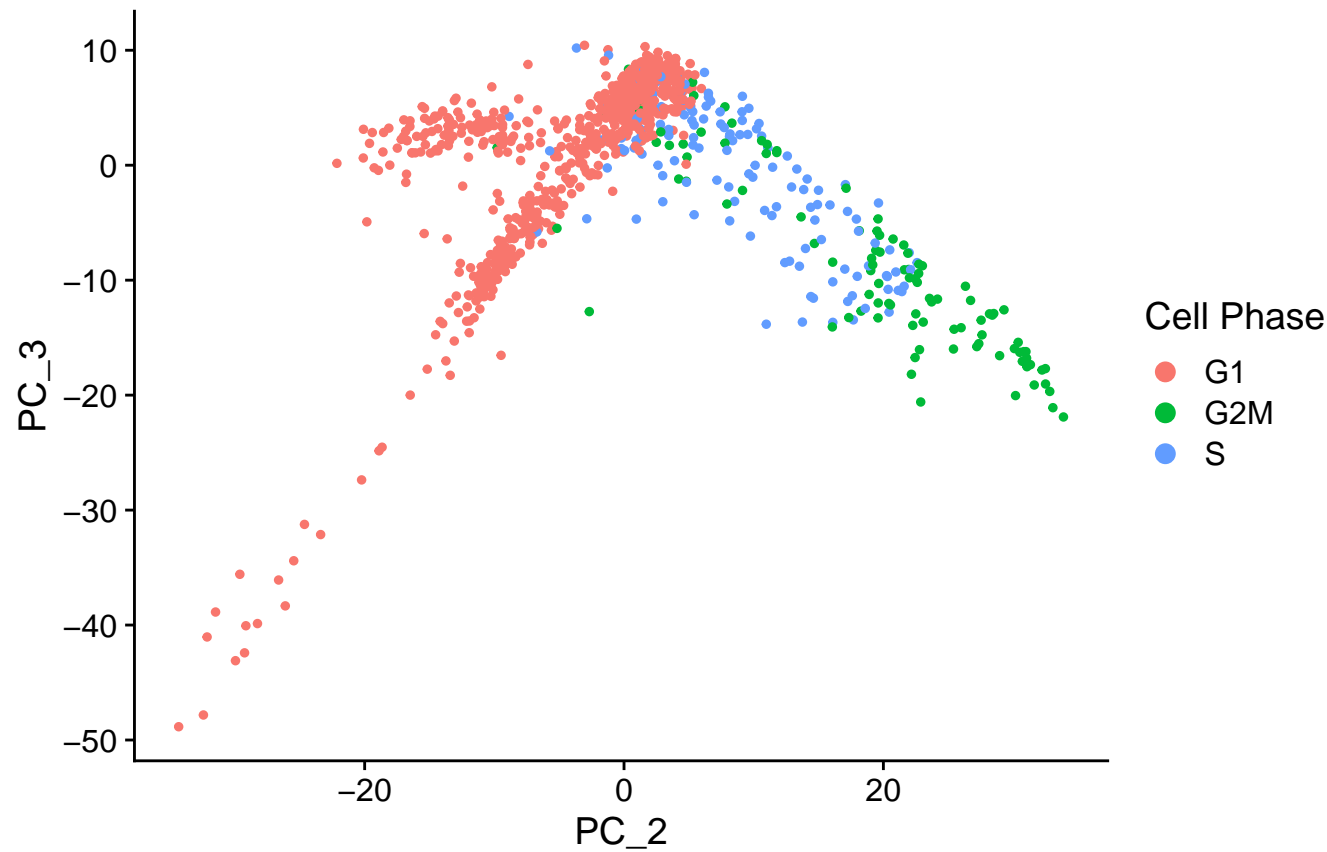
org_6C: Top 2000 Variable Genes



org_6C: Cell Cycle on PC1 & PC2



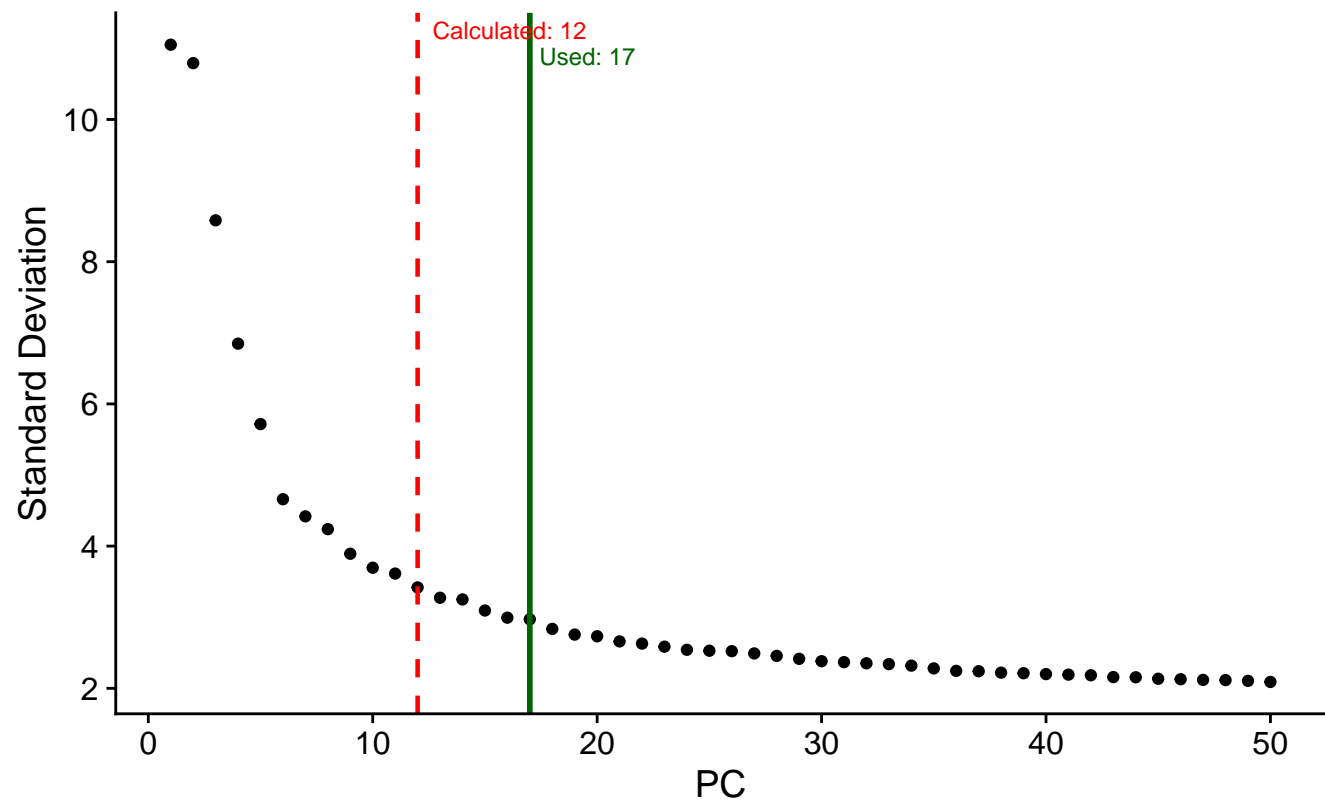
org_6C: Cell Cycle on PC2 & PC3



org_6C – PCA Selection & Silhouette Analysis

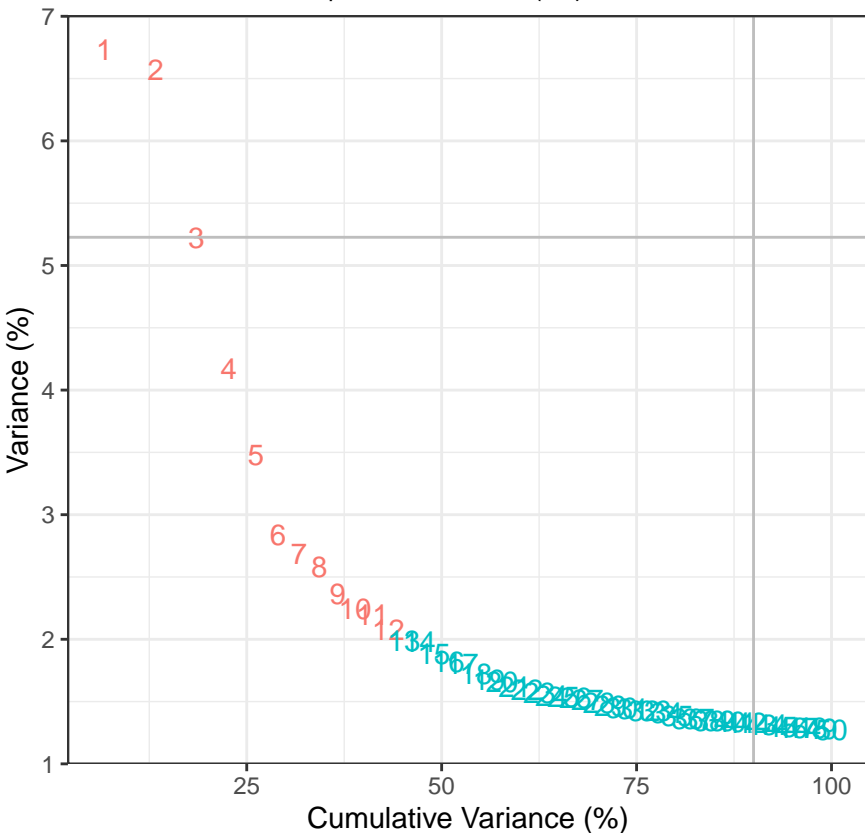
org_6C: Elbow Plot

Calculated: 12 PCs | Used: 17 PCs (+5)



org_6C: Quantitative PC Selection

Calculated: 12 PCs | Used: 17 PCs (+5)

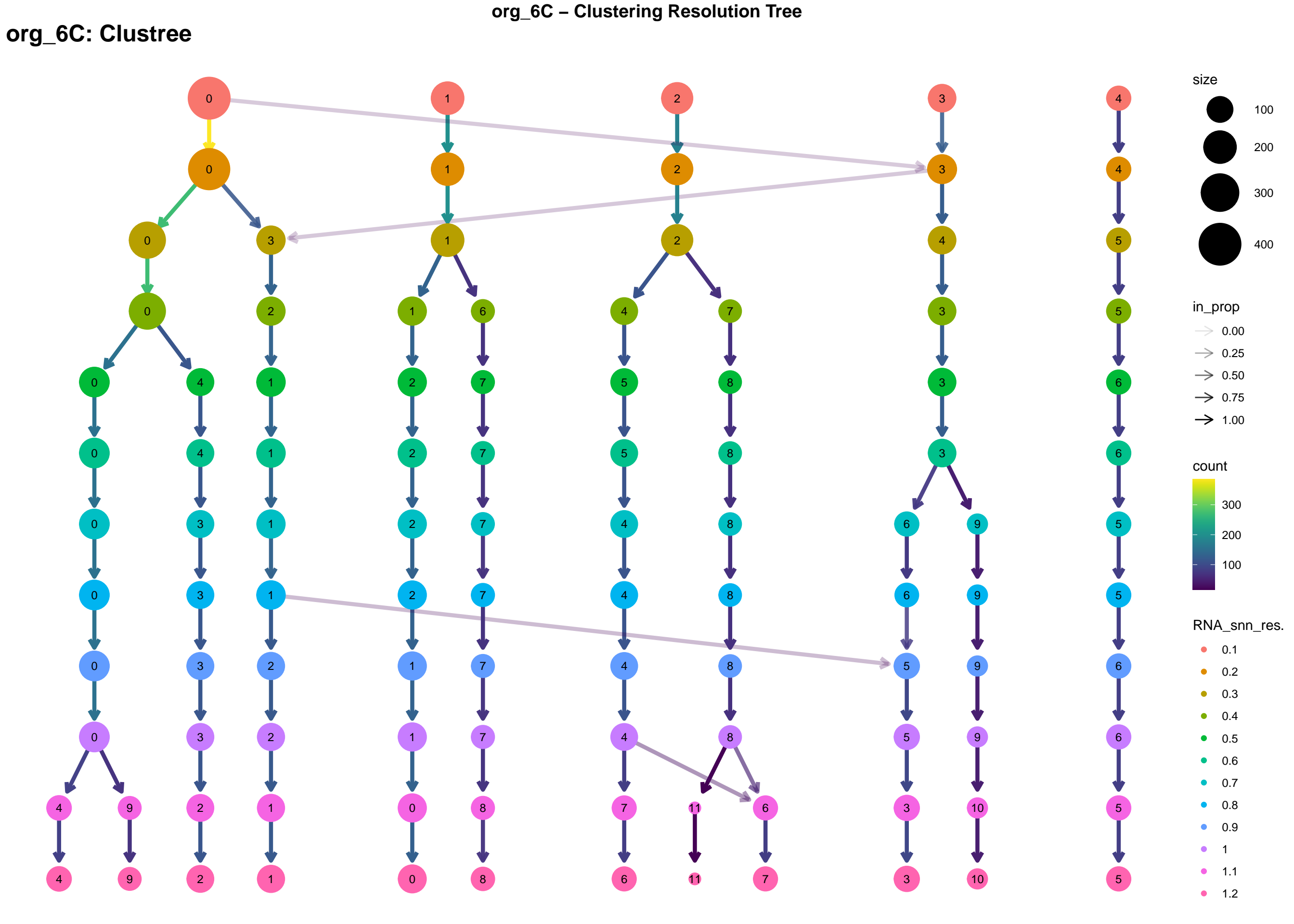


rank > optimal_pcs_calculated

a FALSE

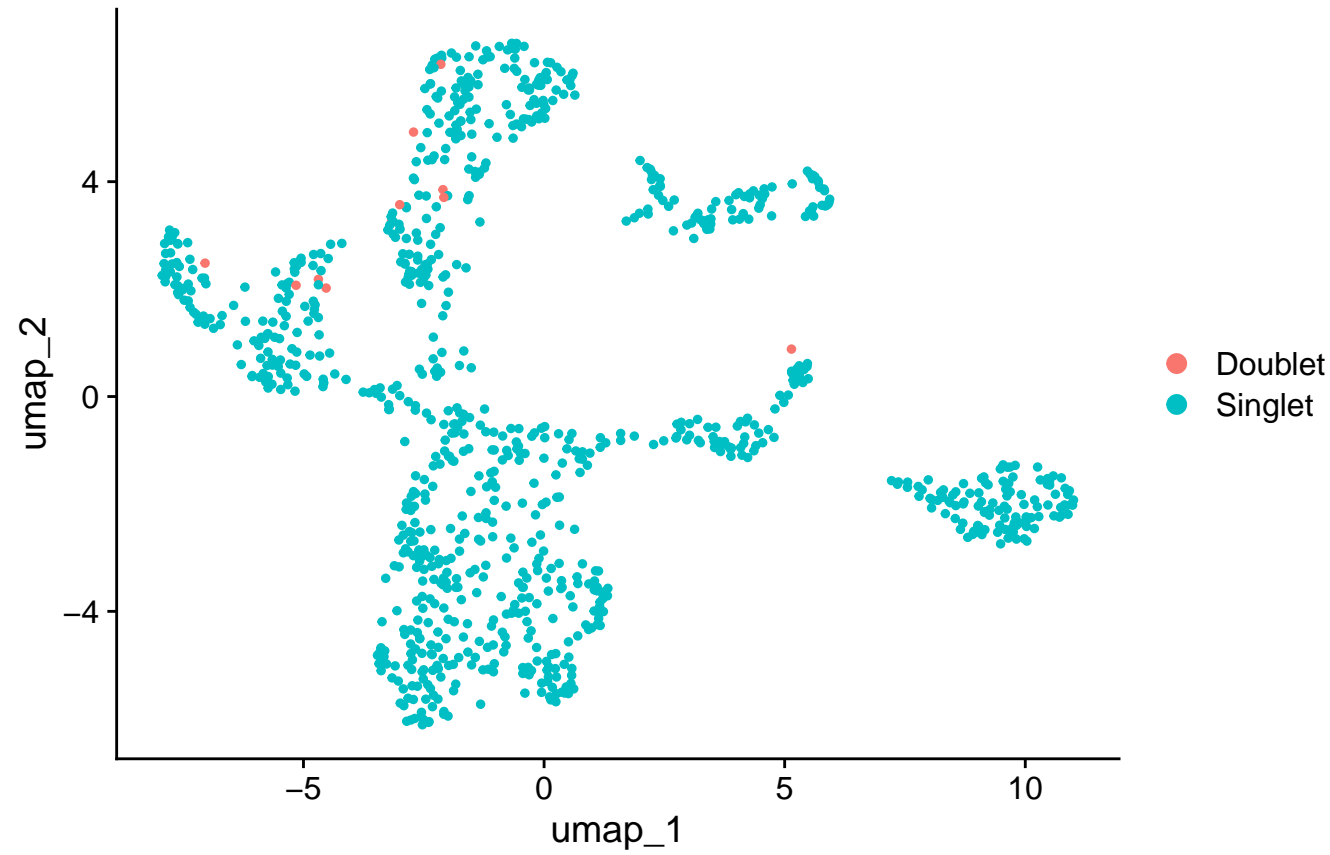
a TRUE

	res_vals	num_clusters	avg_sil_vals
1	0.1	5	0.361599100507883
2	0.4	8	0.319985082064438
3	0.3	6	0.260047577472373
4	0.7	10	0.251962219464654
5	0.5	9	0.241354071545283
6	1.1	12	0.22117873436575

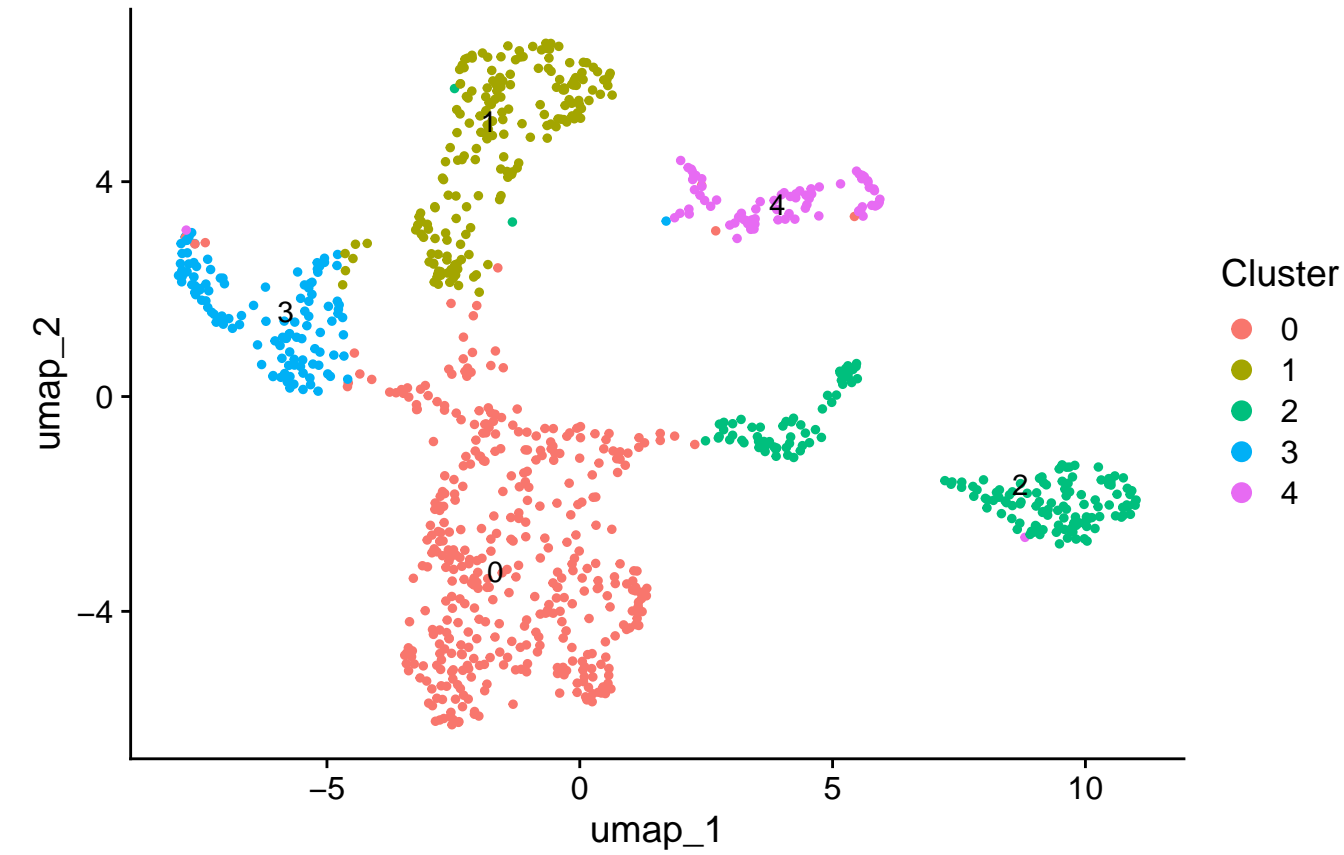


org_6C – UMAP & Doublet Removal

org_6C: Doublets Detected



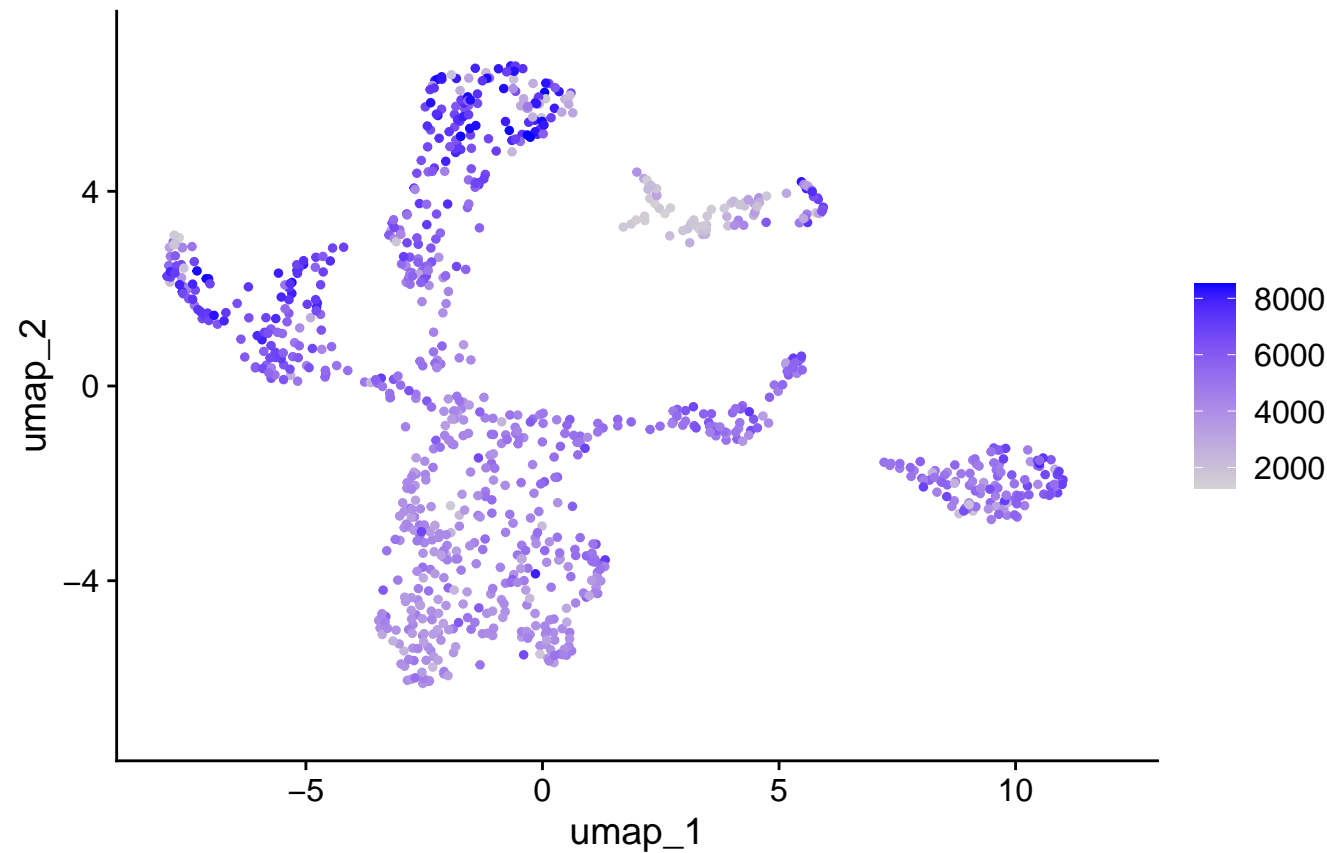
org_6C: Final UMAP



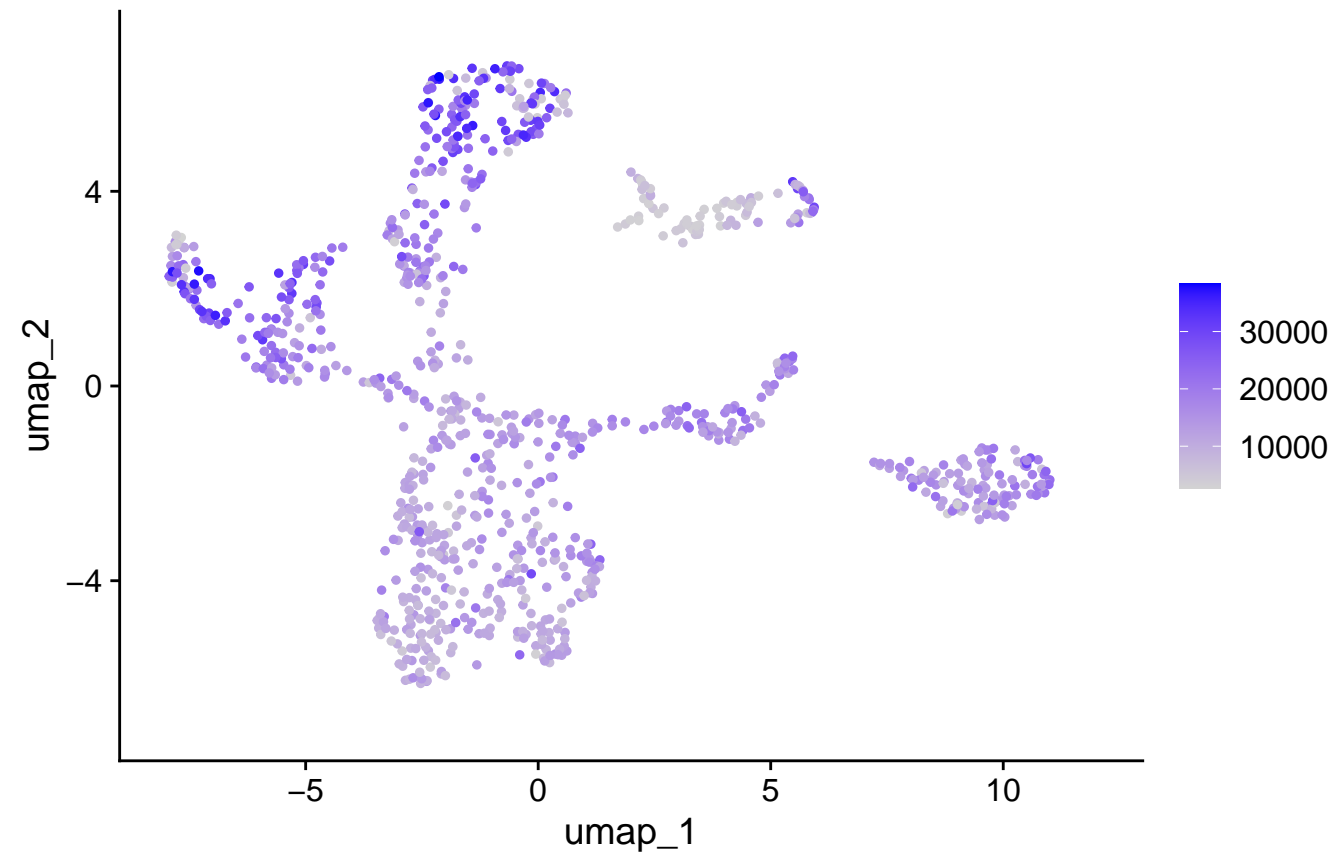
	DF.classifications	median_nCount	median_nFeature	count
1	Doublet	26597	7411.5	12
2	Singlet	13914	4924.0	975

org_6C – QC Metrics & Cell Cycle on UMAP

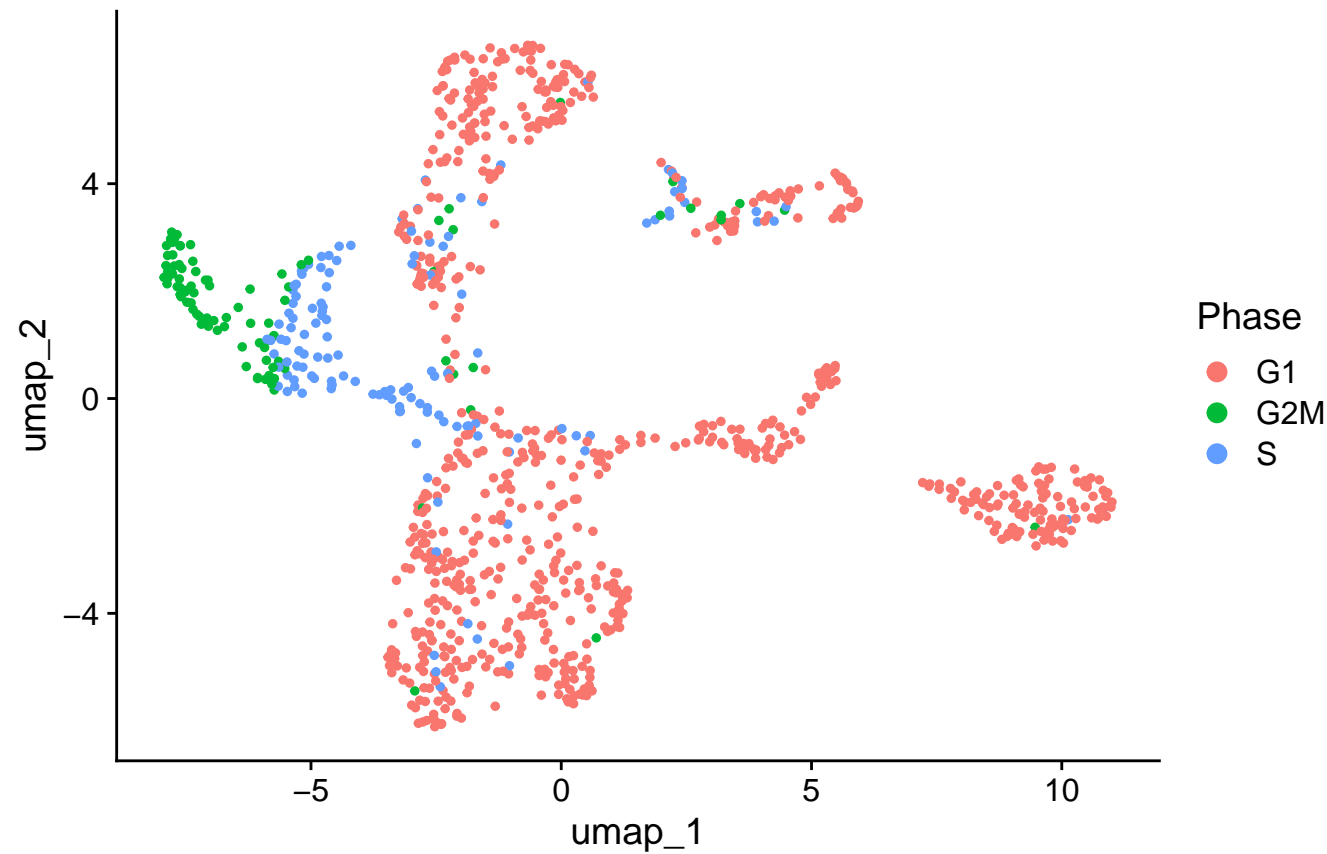
org_6C: nFeature_RNA



org_6C: nCount_RNA



org_6C: Cell Cycle Phase



org_6C: Final UMAP

