org_3A - Adaptive Threshold Determination

org_3A: nFeature_RNA (Genes per Cell) Distribution

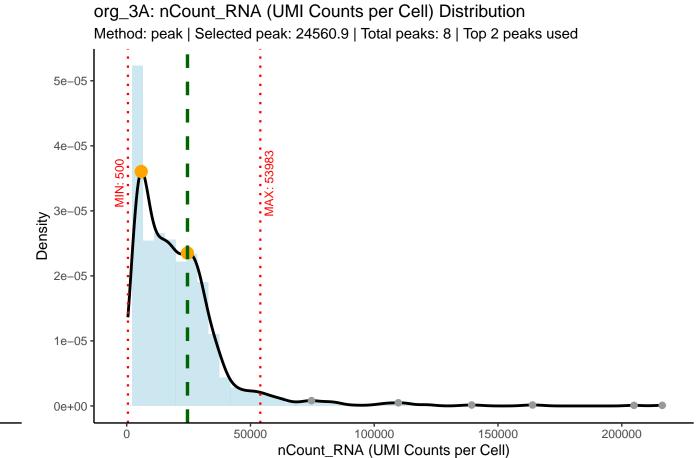
Method: peak | Selected peak: 7678 | Total peaks: 2 | Top 2 peaks used

0.00015

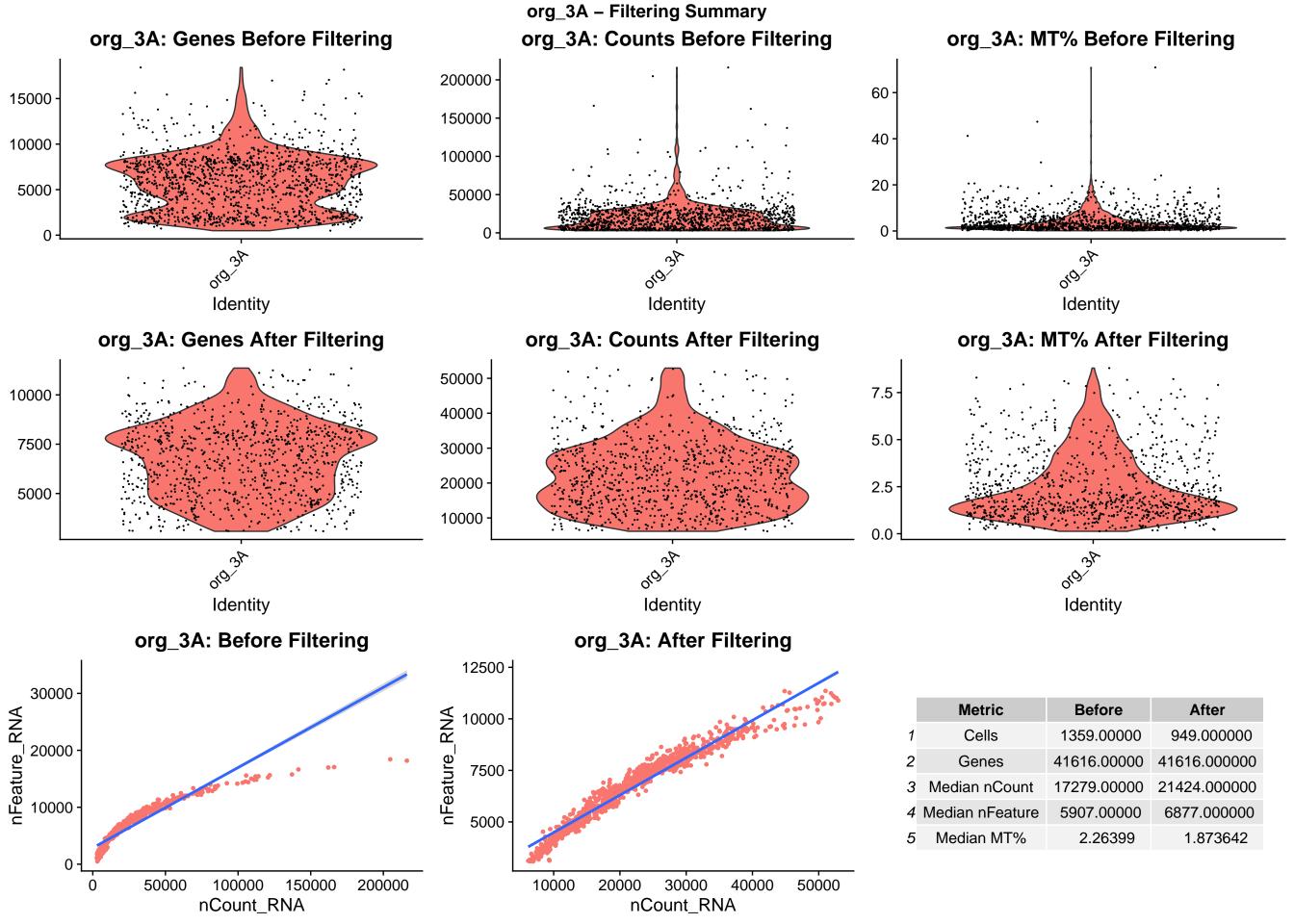
0.00000

0.000005

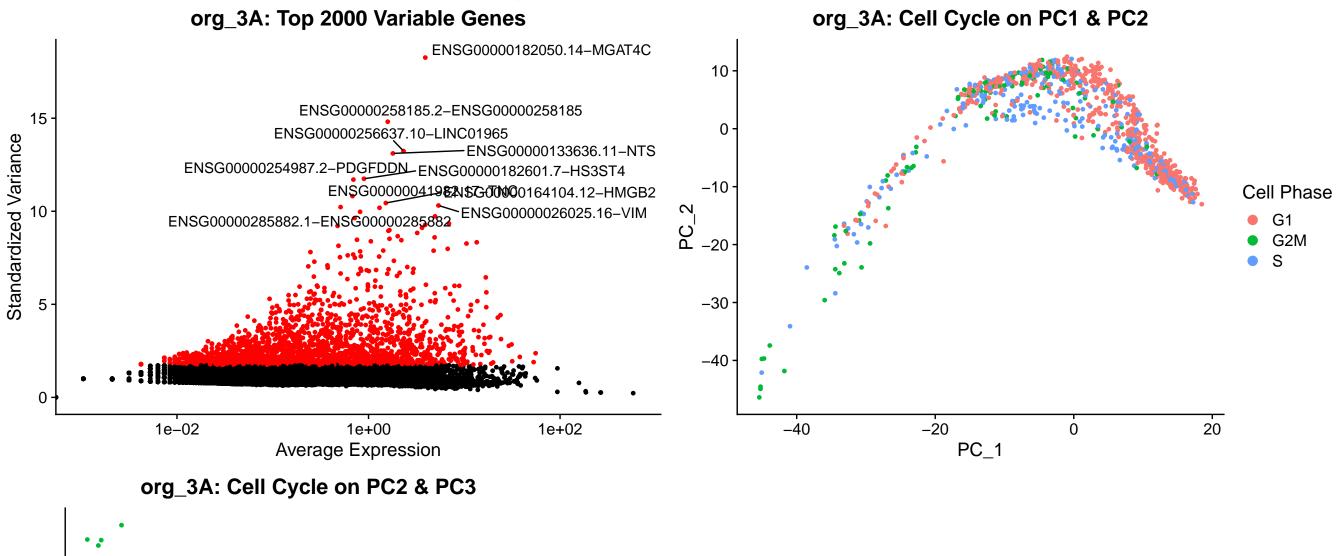
nFeature_RNA (Genes per Cell)

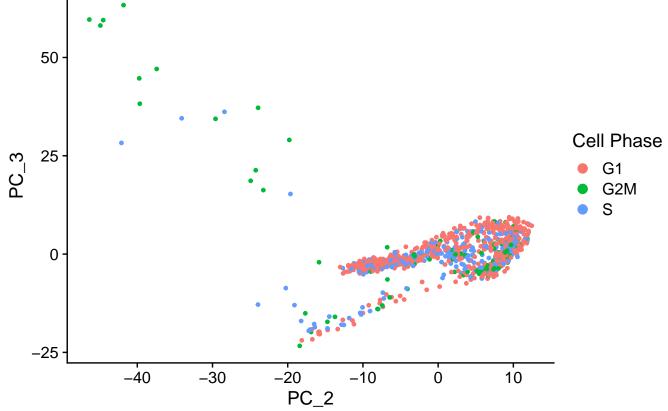


Metric	Method	Selected_Peak	Total_Peaks	Top2_Peaks	SD	MIN_Threshold	MAX_Threshold
ature_RNA	peak	7678	2	7678, 1942	3093	3039	12317
ount_RNA	peak	24561	8	5883, 24561	19615	500	53983



org_3A - Variable Features & Cell Cycle

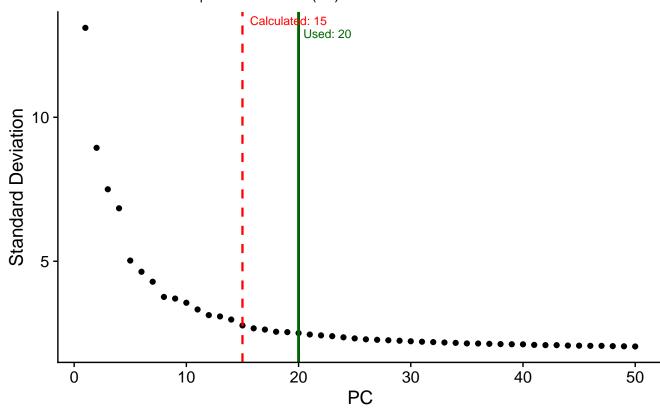




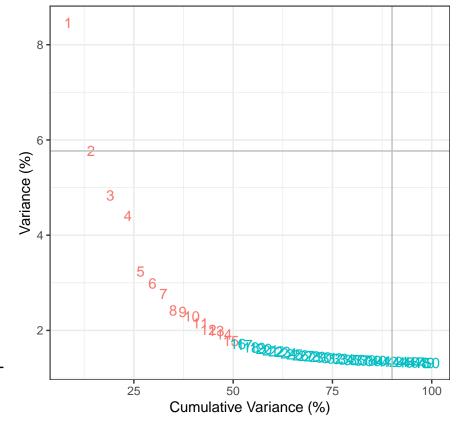
org_3A - PCA Selection & Silhouette Analysis

org_3A: Elbow Plot

Calculated: 15 PCs | Used: 20 PCs (+5)



org_3A: Quantitative PC Selection Calculated: 15 PCs | Used: 20 PCs (+5)

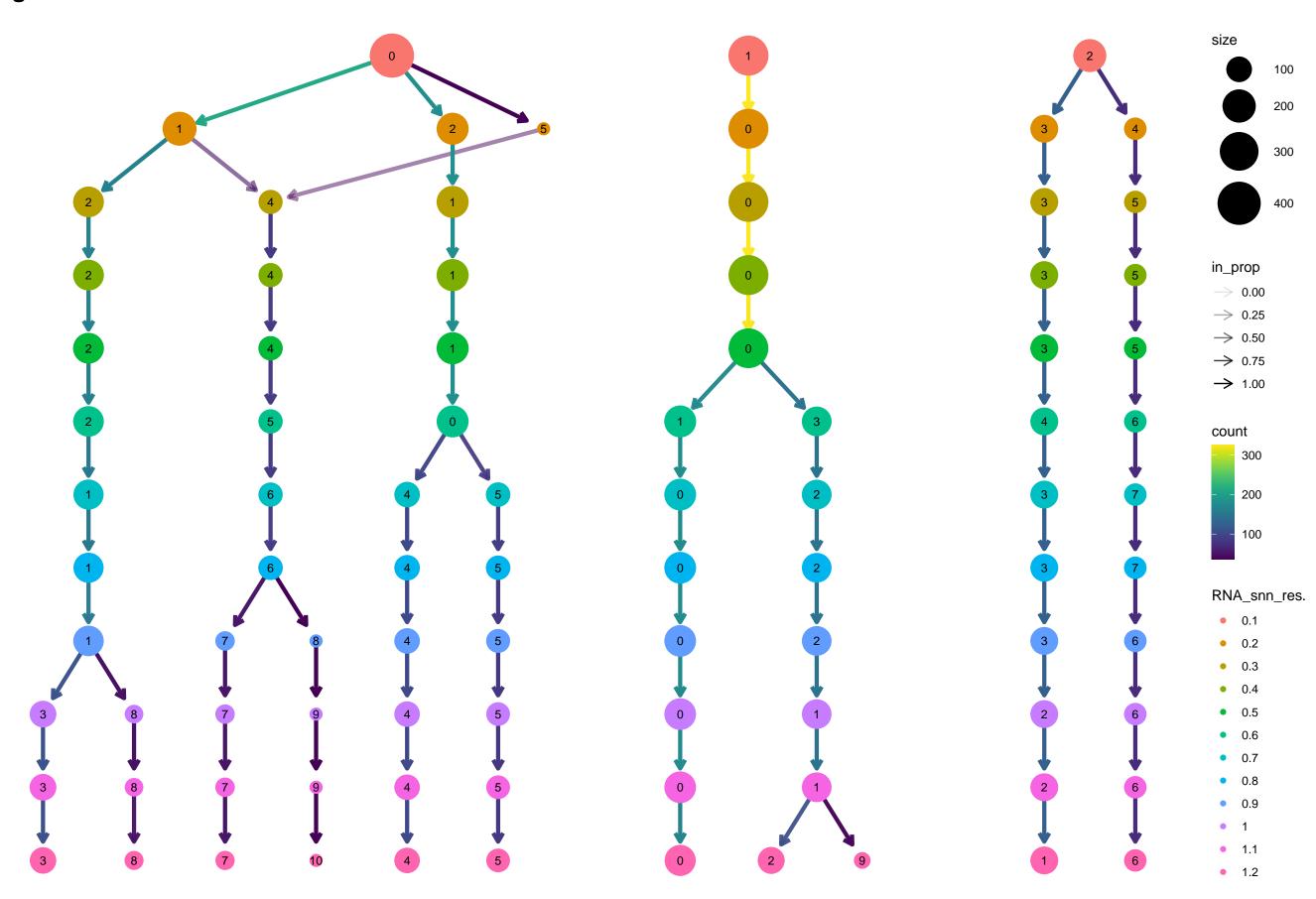


rank > optimal_pcs_calculated

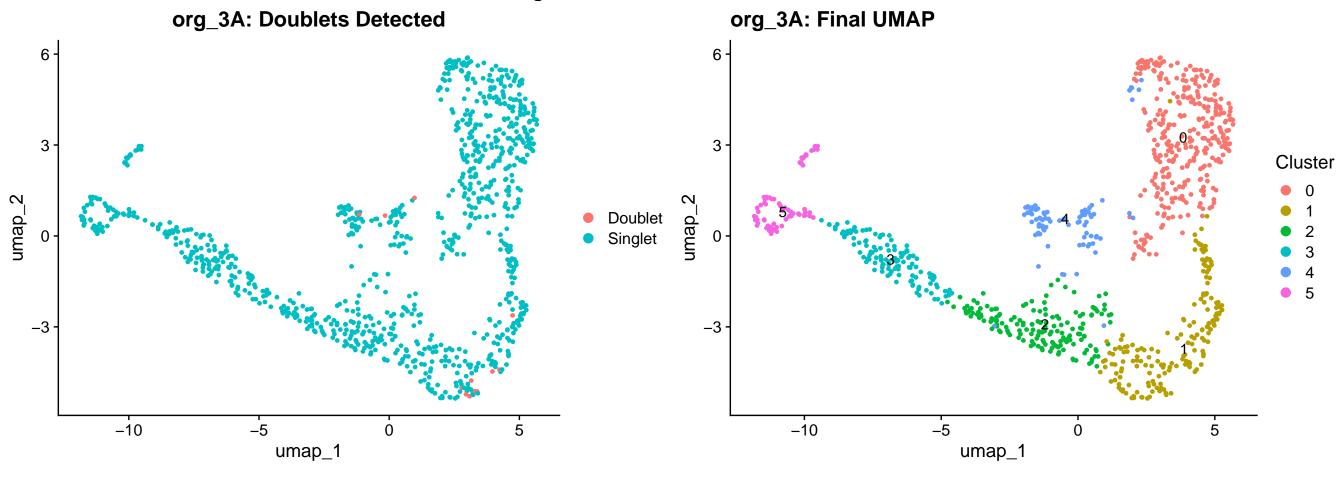
- a FALSE
- a TRUE

	res_vals	num_clusters	avg_sil_vals
1	0.3	6	0.380173021781017
2	0.1	3	0.305961906145535
3	0.9	9	0.29822098429095
4	0.6	7	0.298004981545512
5	0.7	8	0.288914061904453
6	1.2	11	0.25865767037393
7	1	10	0.252564791595052

org_3A: Clustree



org_3A - UMAP & Doublet Removal



	DF. classifications	median_nCount	median_nFeature	count
1	Doublet	36682	9182.5	12
2	Singlet	21207	6799.0	937

org_3A - QC Metrics & Cell Cycle on UMAP org_3A: nCount_RNA org_3A: nFeature_RNA 6 -3 -11000 50000 umap_2 umap_2 40000 9000 30000 7000 20000 5000 10000 -3 --6 -10 <u>-</u>5 -10 umap_1 umap_1 org_3A: Cell Cycle Phase org_3A: Final UMAP 6 -3 Cluster Phase umap_2 -3 -**–**10 <u>-</u>5 **–**10 -5 0 0 umap_1 umap_1