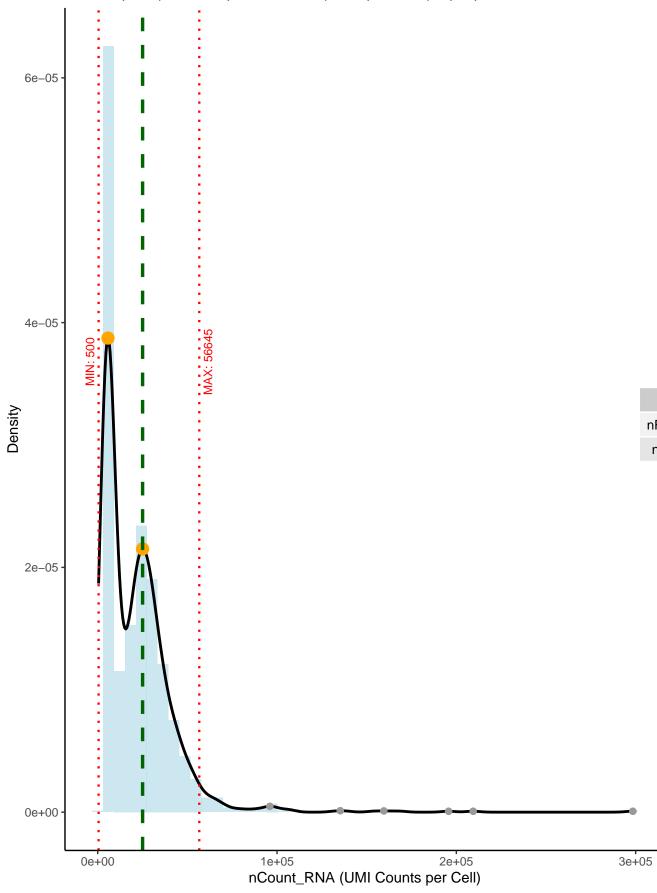
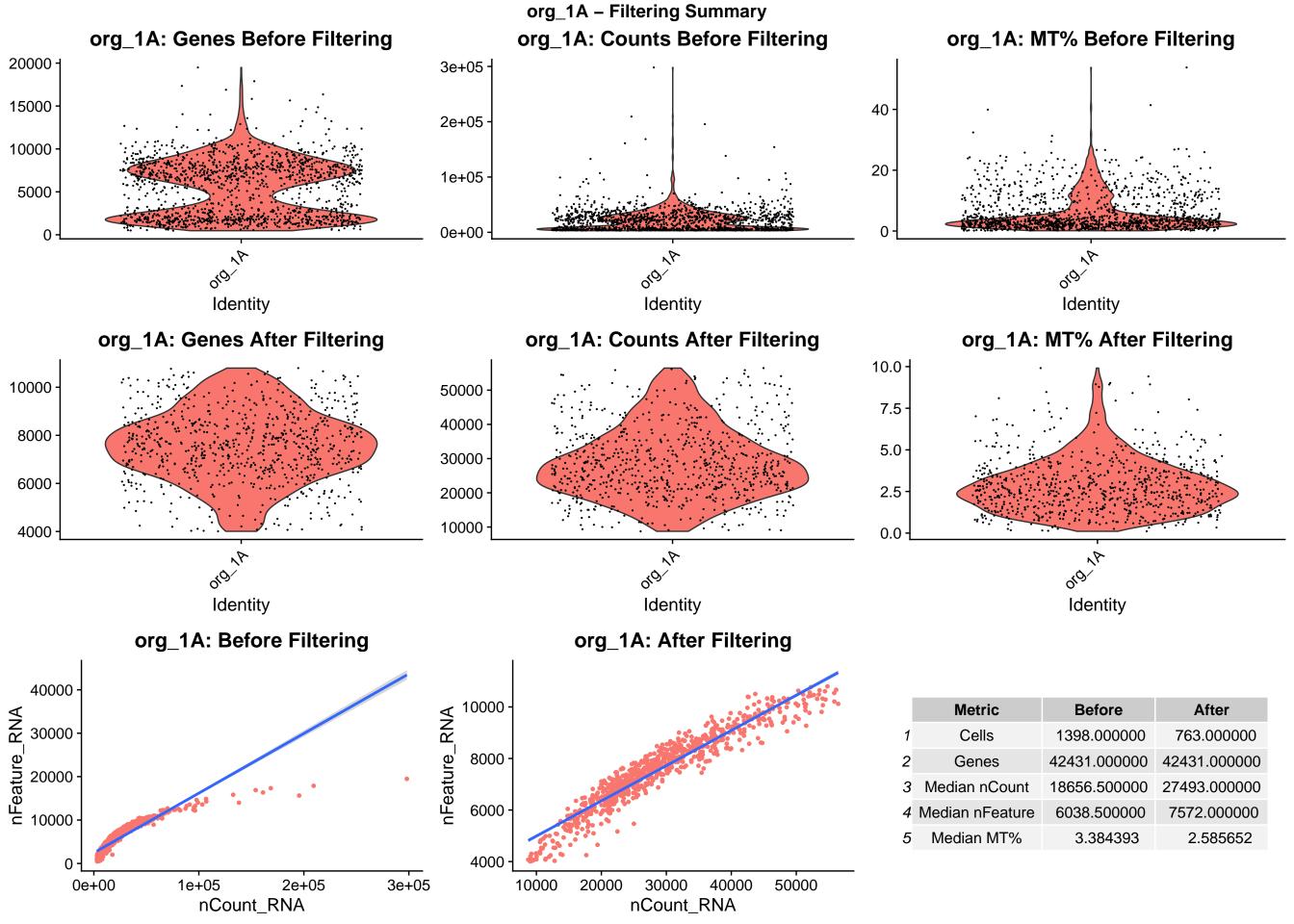
org_1A - Adaptive Threshold Determination

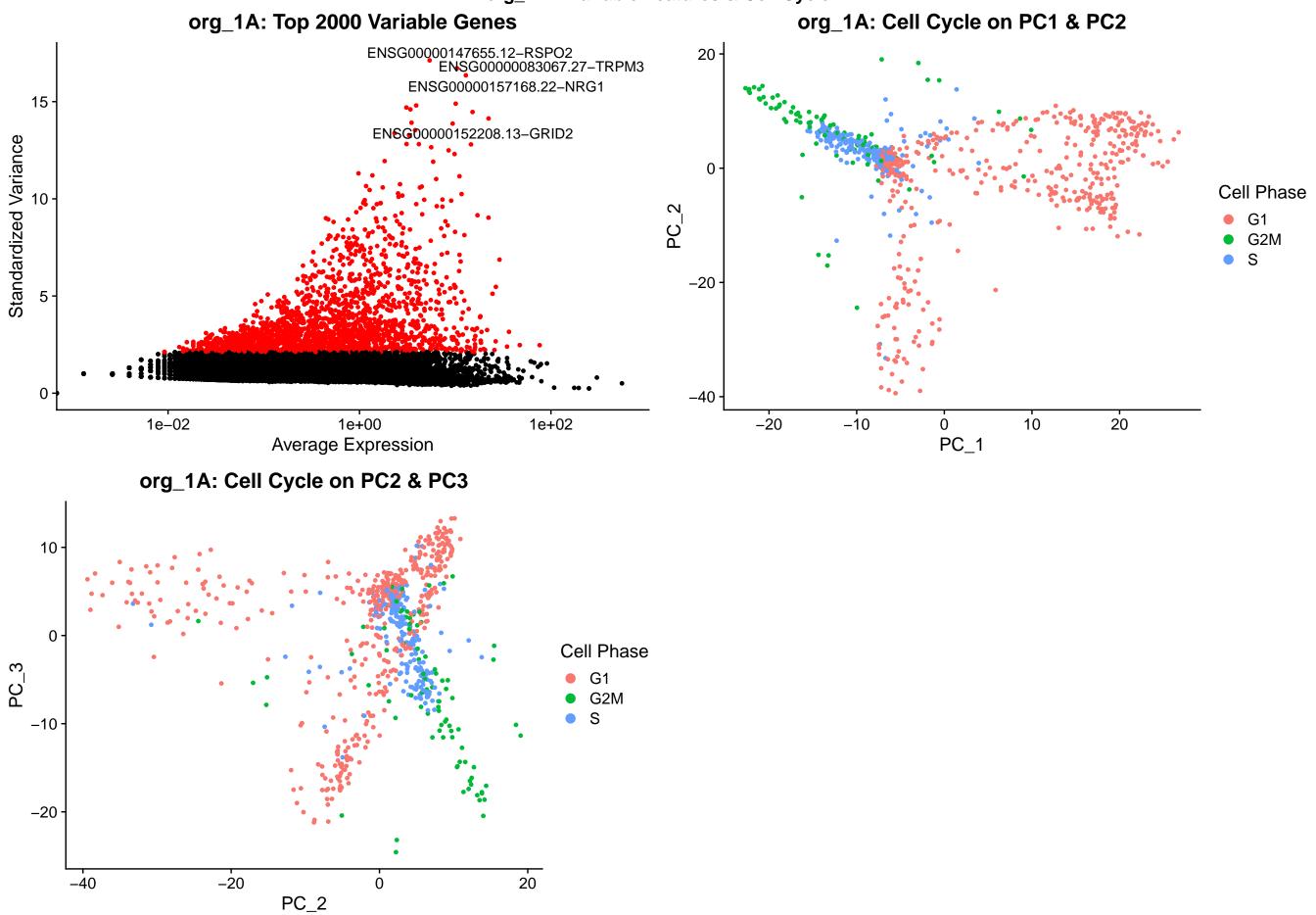
org_1A: nCount_RNA (UMI Counts per Cell) Distribution Method: peak | Selected peak: 25041.8 | Total peaks: 8 | Top 2 peaks used



Metric	Method	Selected_Peak	Total_Peaks	Top2_Peaks	SD	MIN_Threshold	MAX_Threst
nFeature_RNA	custom	NA	NA	NA	NA	4000	12525
nCount_RNA	peak	25042	8	5735, 25042	21069	500	56645



org_1A - Variable Features & Cell Cycle



org_1A - PCA Selection & Silhouette Analysis

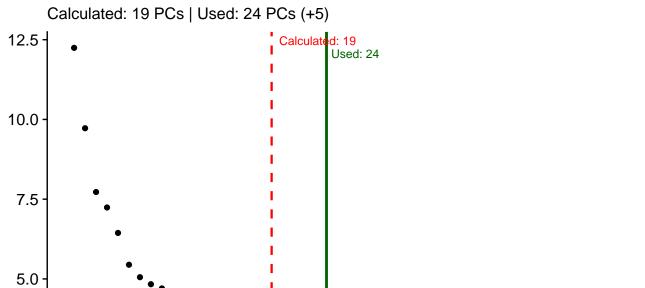
org_1A: Elbow Plot

10

Standard Deviation

2.5 -

0



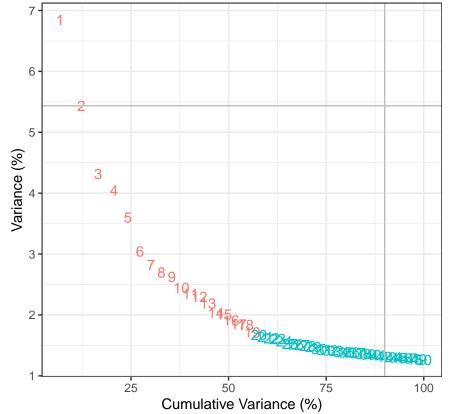
40

50

30

PC

org_1A: Quantitative PC Selection Calculated: 19 PCs | Used: 24 PCs (+5)



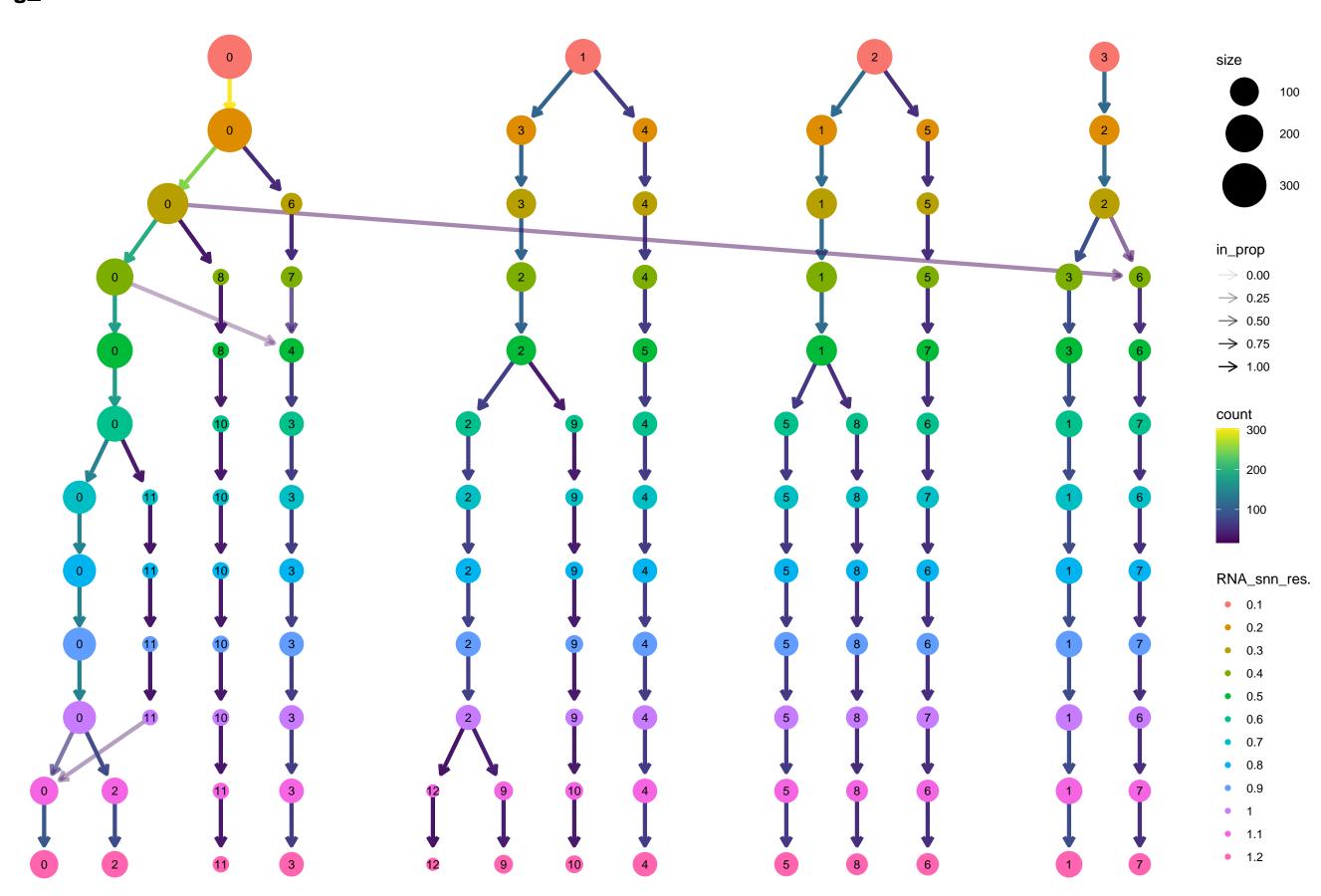
rank > optimal_pcs_calculated

- a FALSE
- a TRUE

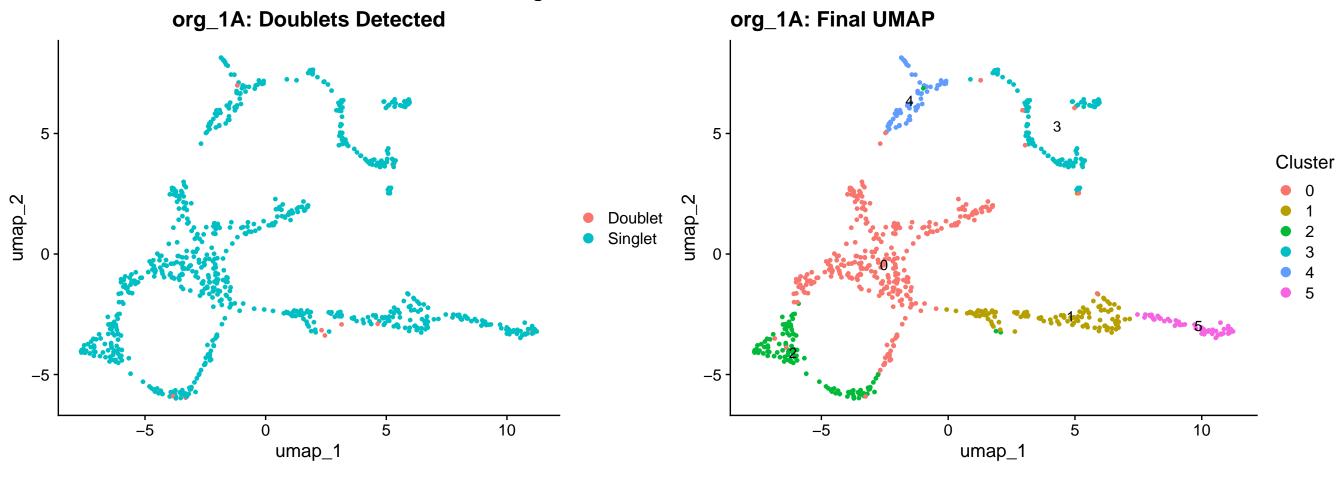
	res_vals	num_clusters	avg_sil_vals
1	0.2	6	0.350247347540968
2	0.3	7	0.321188591456401
3	0.1	4	0.271809106417426
4	0.6	11	0.260225169105883
5	0.4	9	0.2442963090576
6	0.7	12	0.243360950036212
7	1.1	13	0.240452176175489

20

org_1A: Clustree



org_1A - UMAP & Doublet Removal



	DF. classifications	median_nCount	median_nFeature	count
1	Doublet	42051.0	9290.0	9
2	Singlet	27371.5	7556.5	754

org_1A - QC Metrics & Cell Cycle on UMAP org_1A: nFeature_RNA org_1A: nCount_RNA 5 10000 50000 umap_2 umap_2 40000 8000 30000 6000 20000 0 -10000 -5 -**-5** 10 **-**5 10 <u>-</u>5 5 umap_1 umap_1 org_1A: Cell Cycle Phase org_1A: Final UMAP 5 -Cluster Phase umap_2 0 -5 -**-5** <u>-</u>5 10 <u>-</u>5 10 5 5 umap_1 umap_1