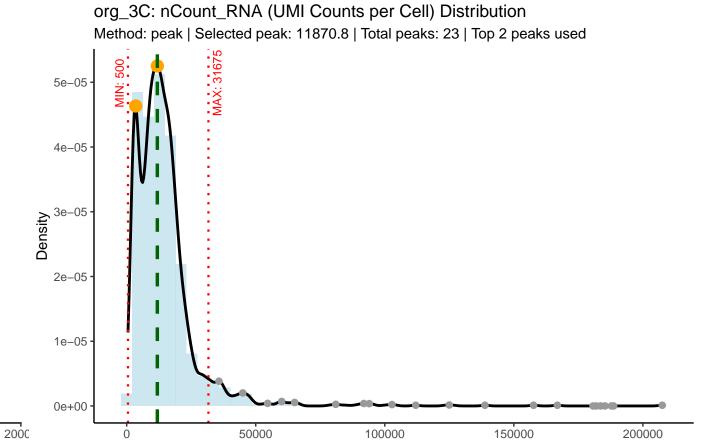
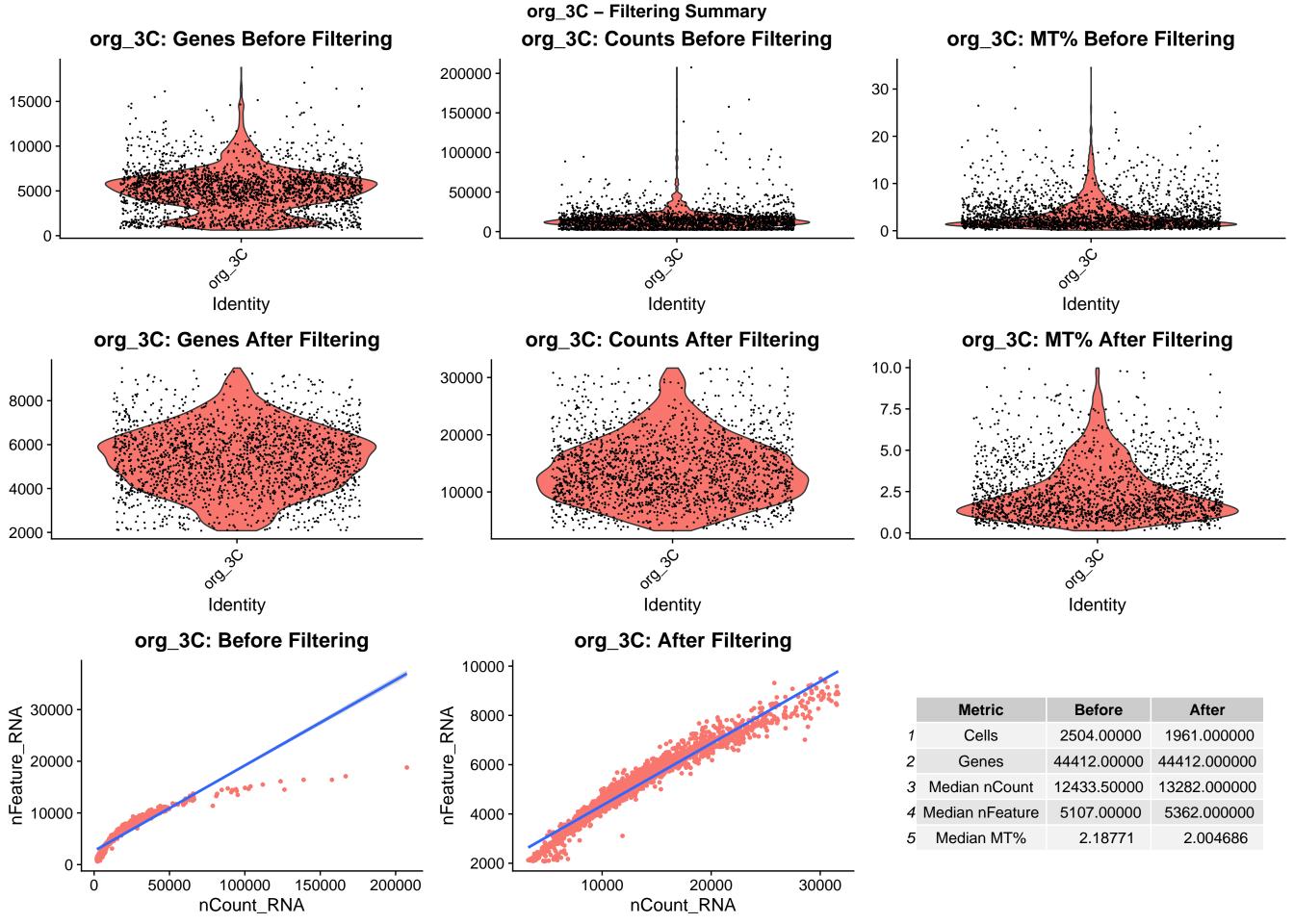
org_3C - Adaptive Threshold Determination

org_3C: nFeature_RNA (Genes per Cell) Distribution

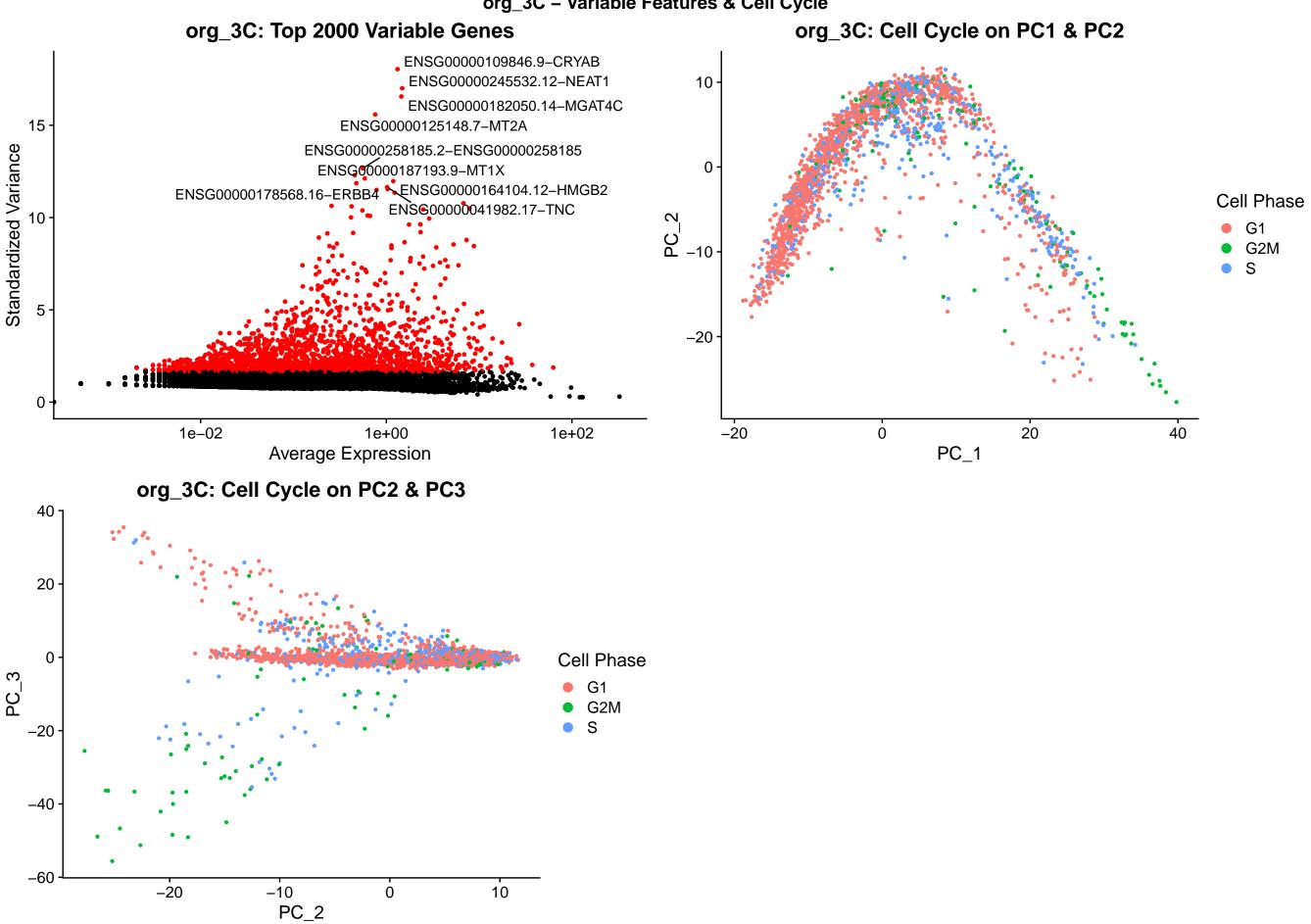


nCount_RNA (UMI Counts per Cell)

Metric	Method	Selected_Peak	Total_Peaks	Top2_Peaks	SD	MIN_Threshold	MAX_Threshold
ature_RNA	peak	5783	6	5783, 1394	2479	2064	9501
ount_RNA	peak	11871	23	11871, 3492	13203	500	31675



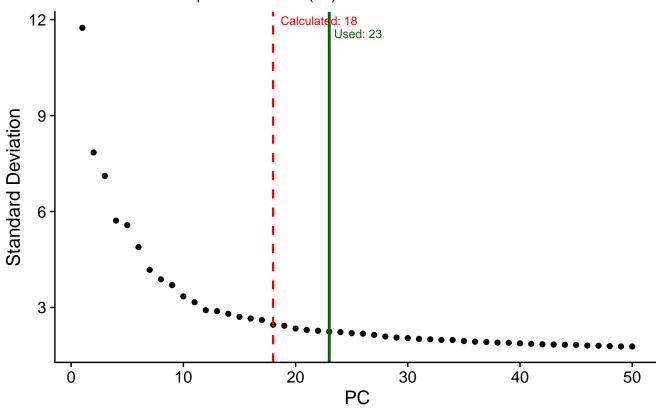
org_3C - Variable Features & Cell Cycle



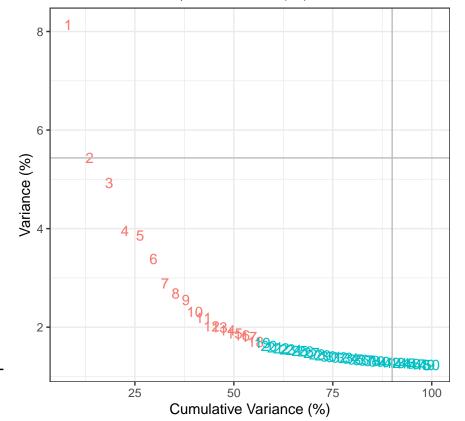
org_3C - PCA Selection & Silhouette Analysis

org_3C: Elbow Plot

Calculated: 18 PCs | Used: 23 PCs (+5)



org_3C: Quantitative PC Selection Calculated: 18 PCs | Used: 23 PCs (+5)

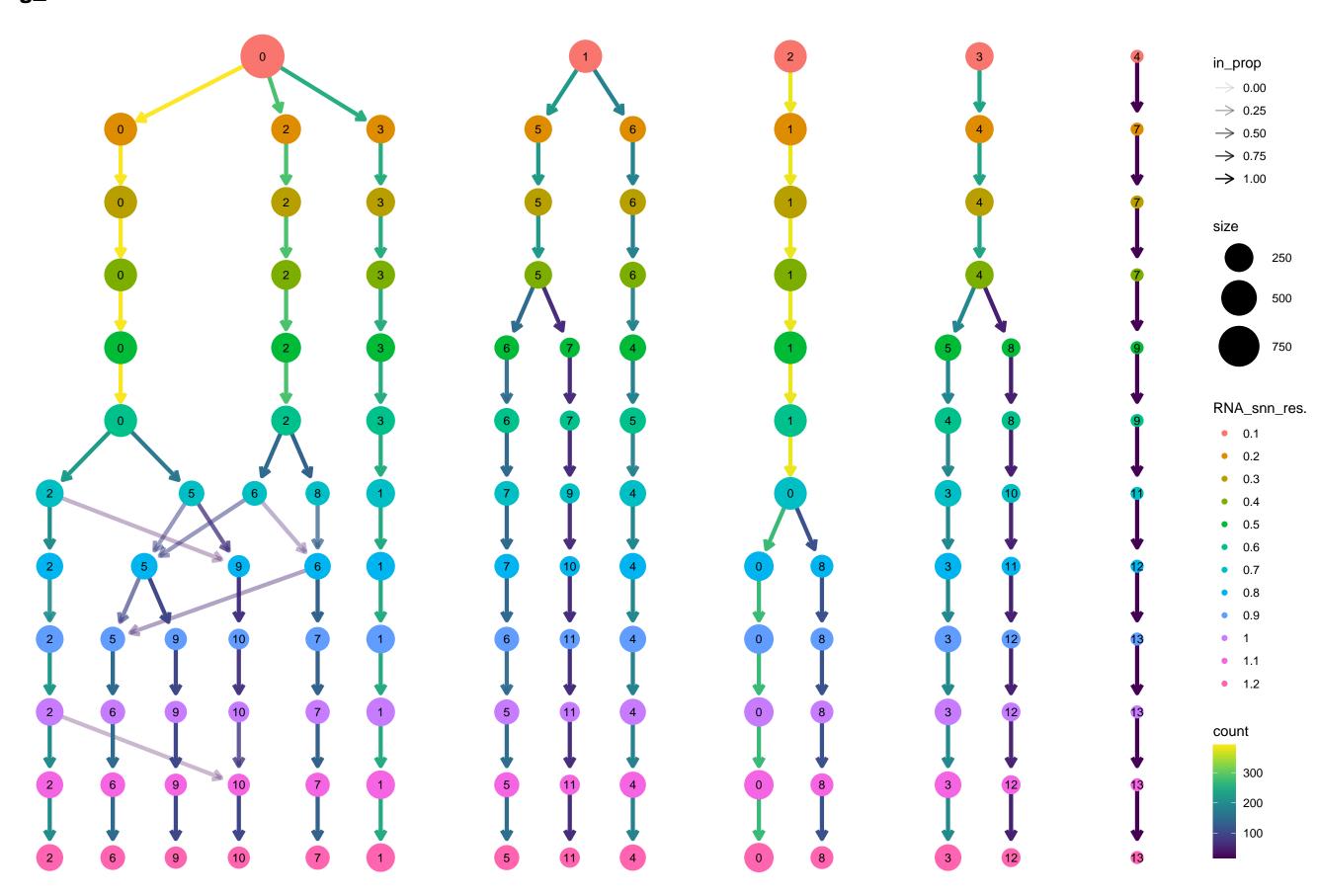


rank > optimal_pcs_calculated

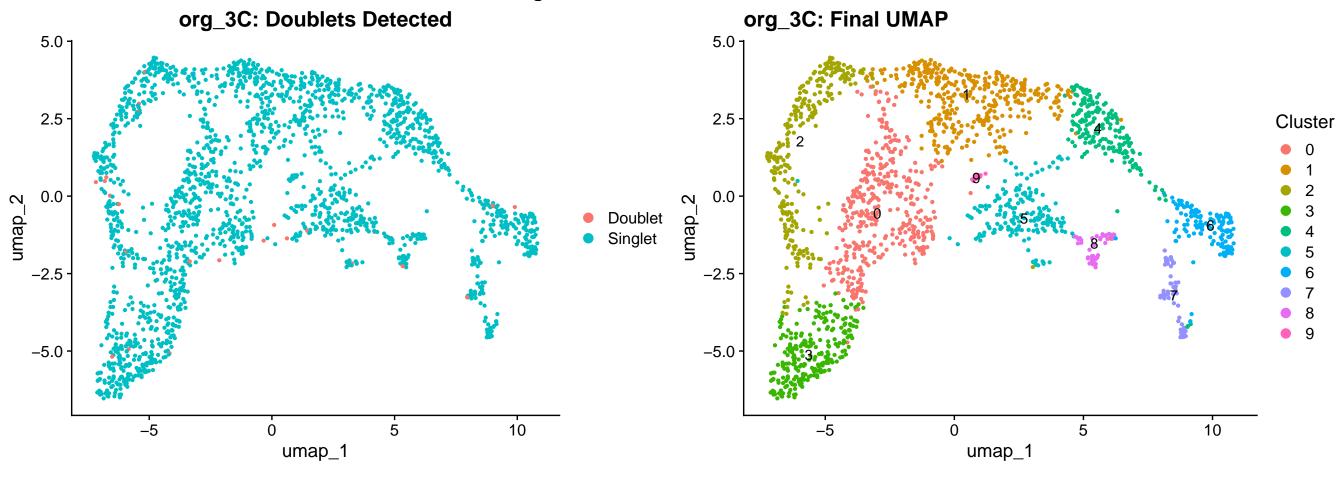
- a FALSE
 - TRUE

	res_vals	num_clusters	avg_sil_vals
1	0.5	10	0.300247569870767
2	0.7	12	0.266991612243595
3	8.0	13	0.238277368511831
4	0.9	14	0.235781557851224
5	0.2	8	0.233219503997527
6	0.1	5	0.0828500818707492

org_3C: Clustree



org_3C - UMAP & Doublet Removal



	DF.classifications	median_nCount	median_nFeature	count
1	Doublet	26815	8344.0	27
2	Singlet	13139	5331.5	1934

org_3C - QC Metrics & Cell Cycle on UMAP org_3C: nCount_RNA org_3C: nFeature_RNA 5.0 -5.0 -2.5 -2.5 30000 umap_2 8000 0.0 α 20000 6000 4000 10000 -2.5 · -2.5 · -5.0 -5.0 · -7.5 -7.5 _-5 10 <u>-</u>5 10 umap_1 umap_1 org_3C: Cell Cycle Phase org_3C: Final UMAP 5.0 5.0 2.5 2.5 Cluster Phase umap_2 0.0 0.0 -2.5 **-2.5 -5.0** · -5.0 10 <u>-</u>5 5 <u>-</u>5 10 0 0 5 umap_1 umap_1