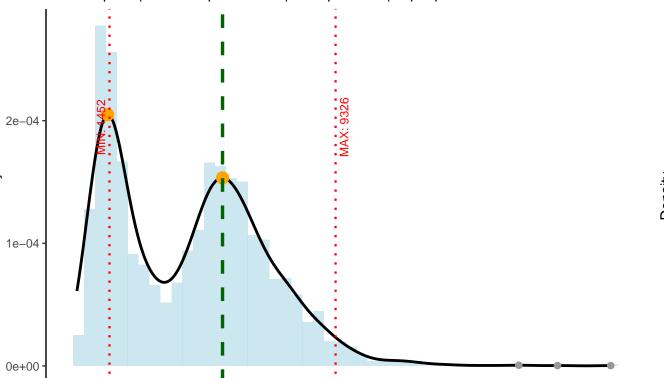
org\_1B - Adaptive Threshold Determination

2000

org\_1B: nFeature\_RNA (Genes per Cell) Distribution

Method: peak | Selected peak: 5389 | Total peaks: 5 | Top 2 peaks used



10000

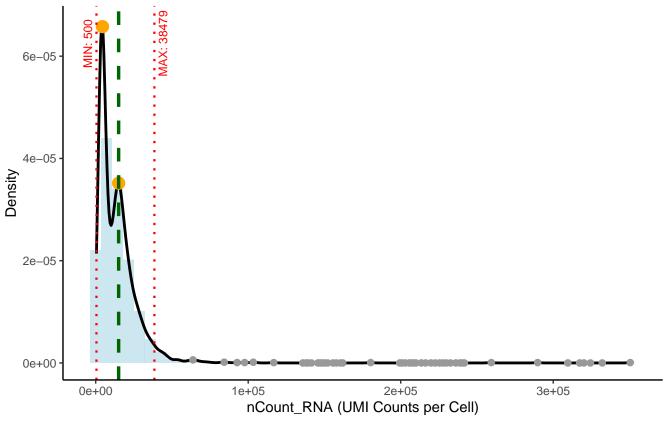
nFeature\_RNA (Genes per Cell)

15000

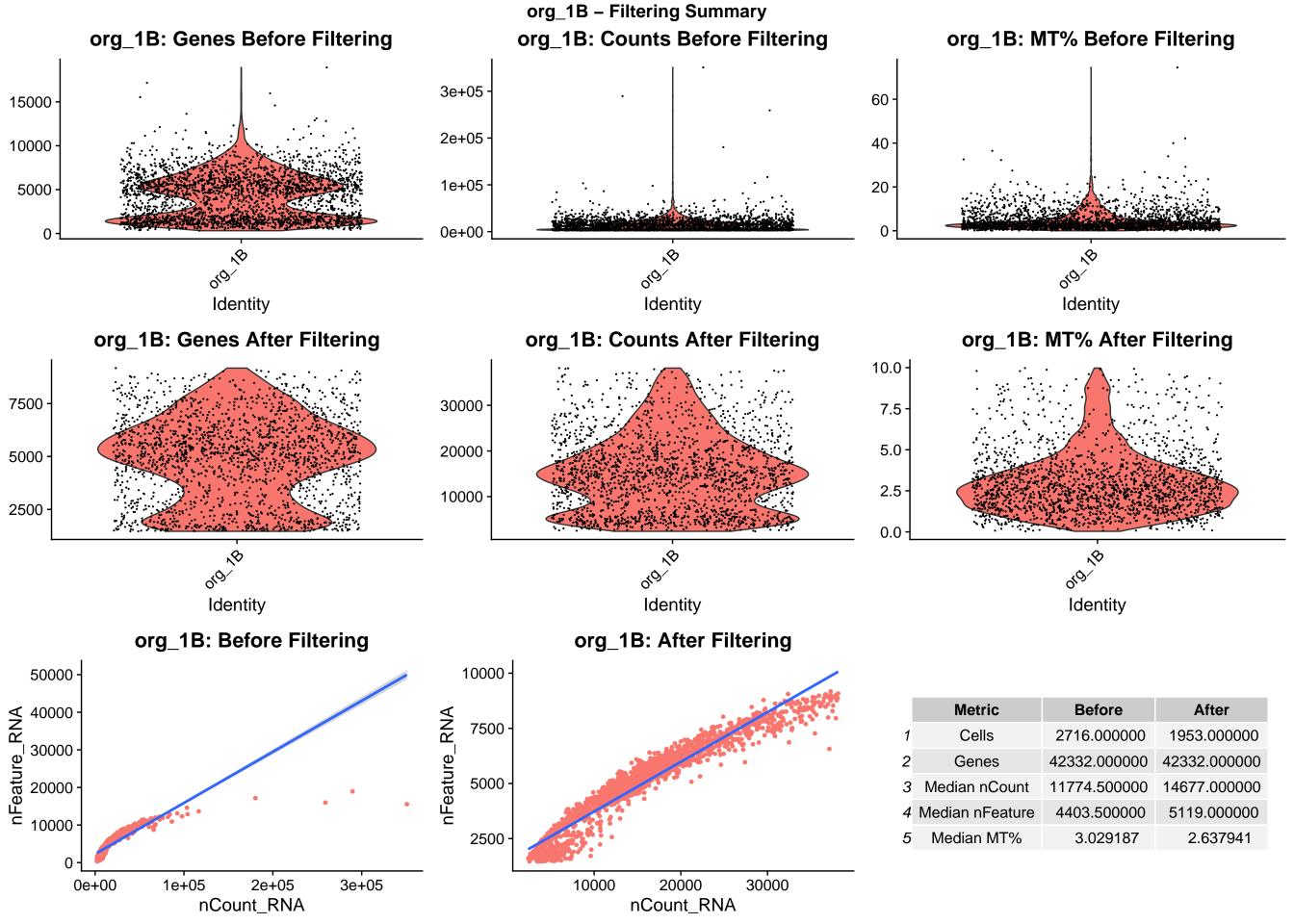
5000

org\_1B: nCount\_RNA (UMI Counts per Cell) Distribution

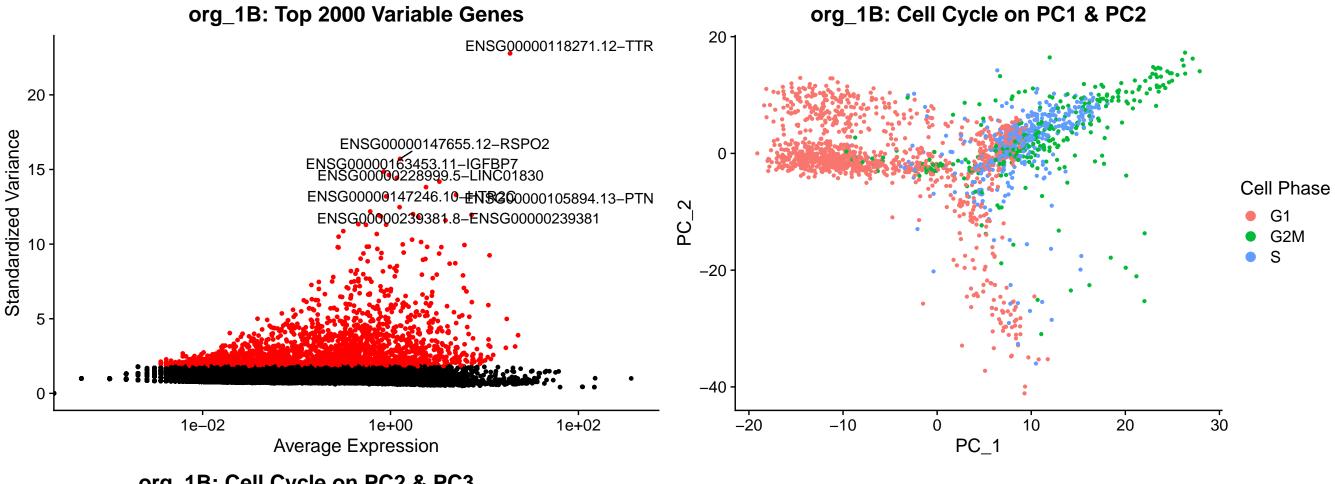
Method: peak | Selected peak: 15038.8 | Total peaks: 49 | Top 2 peaks used



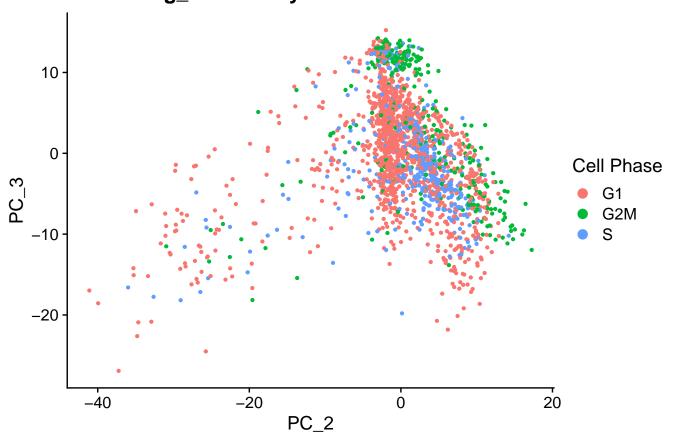
Metric	Method	Selected_Peak	Total_Peaks	Top2_Peaks	SD	MIN_Threshold	MAX_Threshold
ature_RNA	peak	5389	5	1388, 5389	2624	1452	9326
ount_RNA	peak	15039	49	4444, 15039	15627	500	38479



org\_1B - Variable Features & Cell Cycle



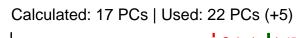
org\_1B: Cell Cycle on PC2 & PC3

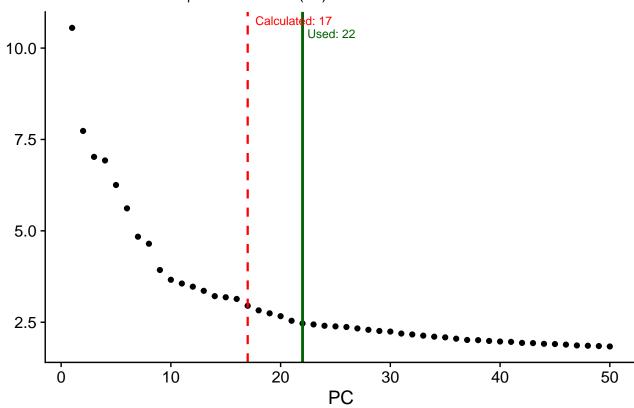


org\_1B - PCA Selection & Silhouette Analysis

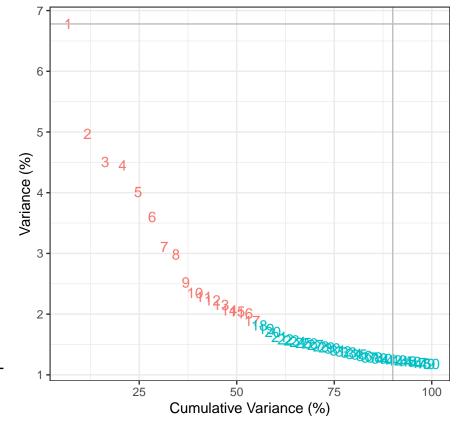
org\_1B: Elbow Plot

Standard Deviation





org\_1B: Quantitative PC Selection Calculated: 17 PCs | Used: 22 PCs (+5)

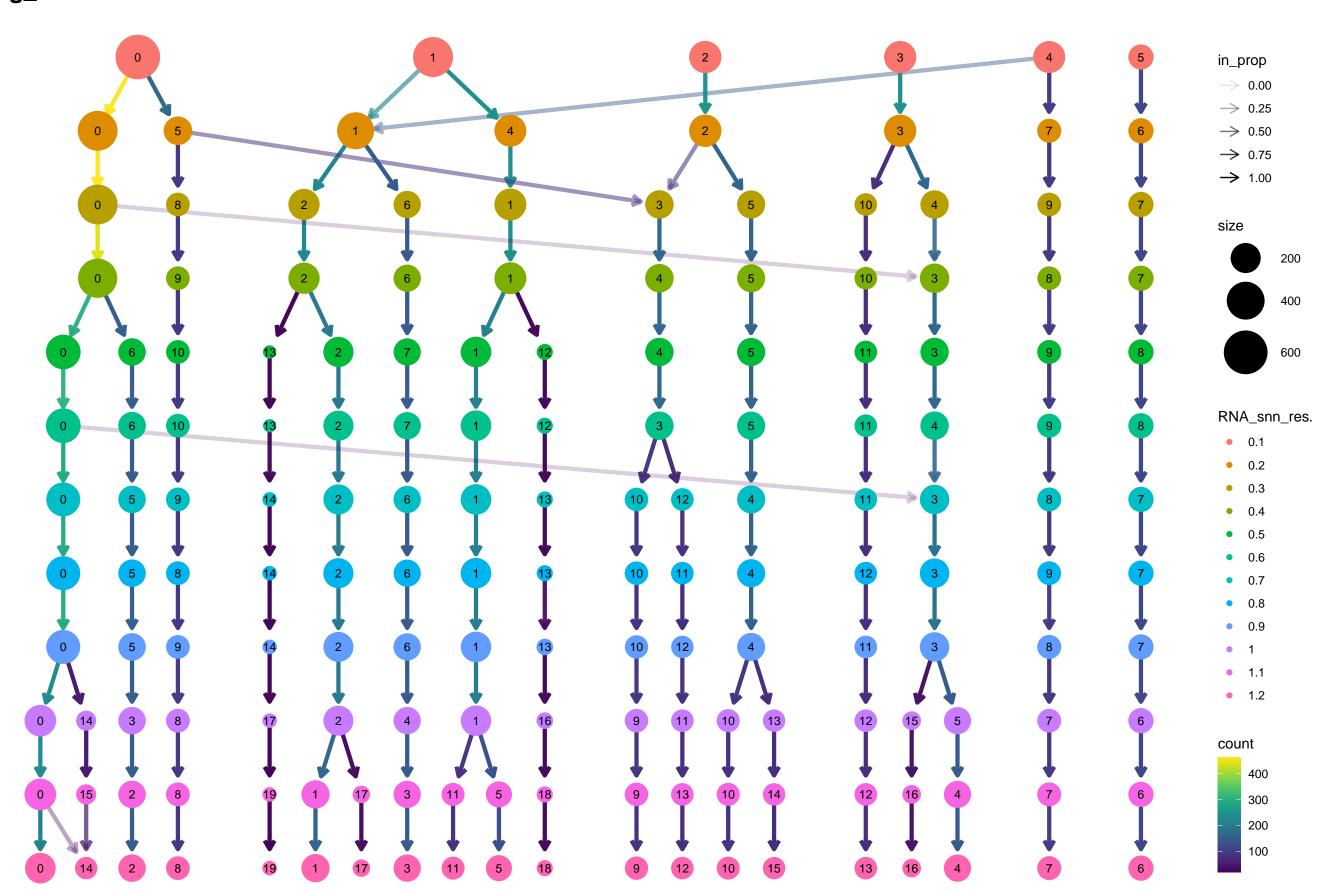


rank > optimal\_pcs\_calculated

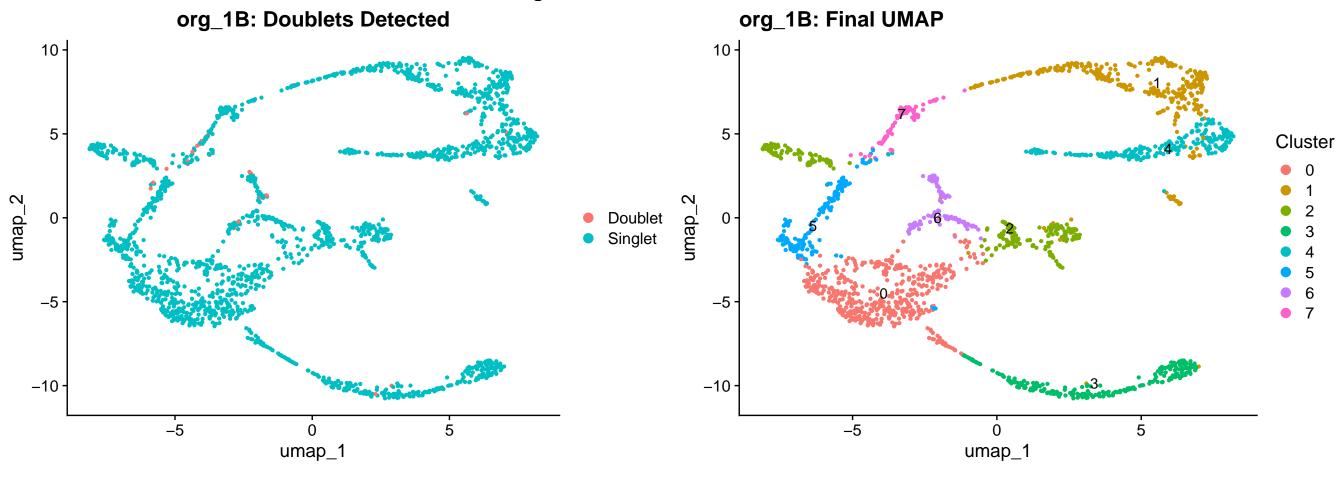
- a FALSE
- a TRUE

	res_vals	num_clusters	avg_sil_vals
1	0.2	8	0.334133604767285
2	0.3	11	0.318688948210646
3	0.1	6	0.288694479619635
4	0.9	15	0.242037619722552
5	0.6	14	0.22489564080046
6	1	18	0.215307045181525
7	1.1	20	0.188478017106846

org\_1B: Clustree



org\_1B - UMAP & Doublet Removal



	DF.classifications	median_nCount	median_nFeature	count
1	Doublet	30762.5	7833.5	26
2	Singlet	14559.0	5094.0	1927

org\_1B - QC Metrics & Cell Cycle on UMAP org\_1B: nCount\_RNA org\_1B: nFeature\_RNA 10 -10 -5 · 5 -9000 umap\_2 umap\_2 30000 7000 20000 5000 3000 10000 **-5** -5 **-10** -**-10** -**-**5 -5 5 umap\_1 umap\_1 org\_1B: Final UMAP org\_1B: Cell Cycle Phase 10 -10 -5 · 5 Cluster Phase umap\_2 0 -0 -5 **-5 -10** -**-10** -<u>-</u>5 <u>-</u>5 0 0 5 umap\_1 umap\_1