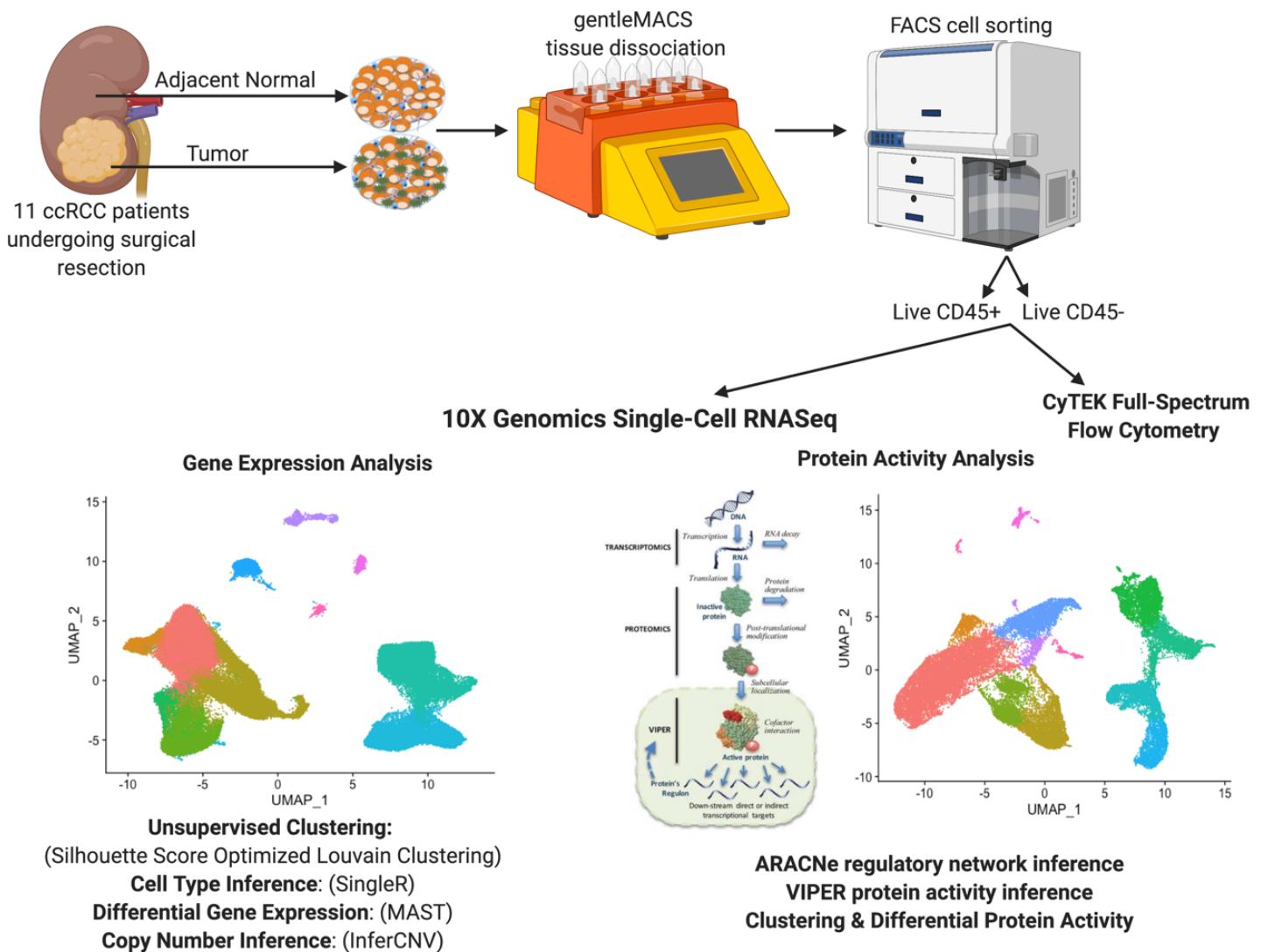


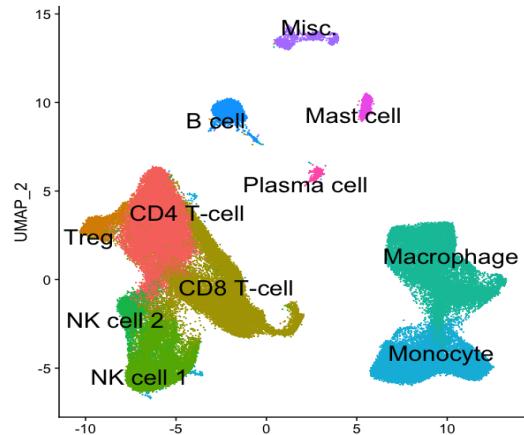
# Figure 1



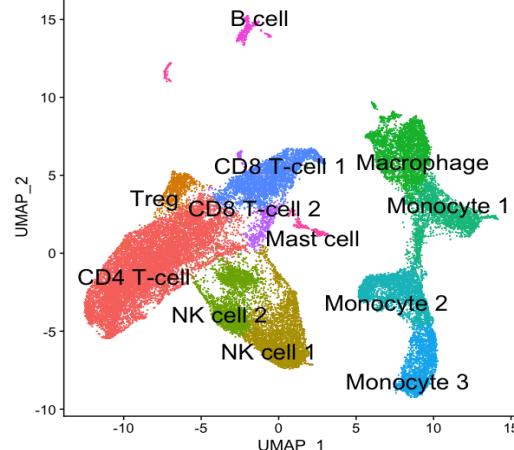
# Figure 2

## CD45+ Gene Expression

2A)

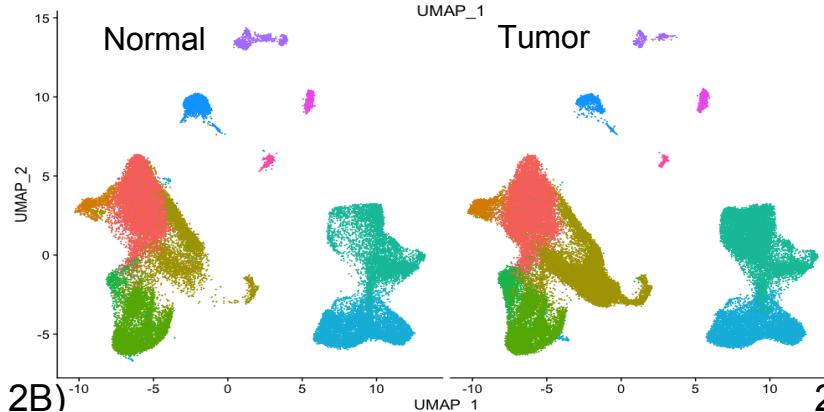


## CD45+ VIPER

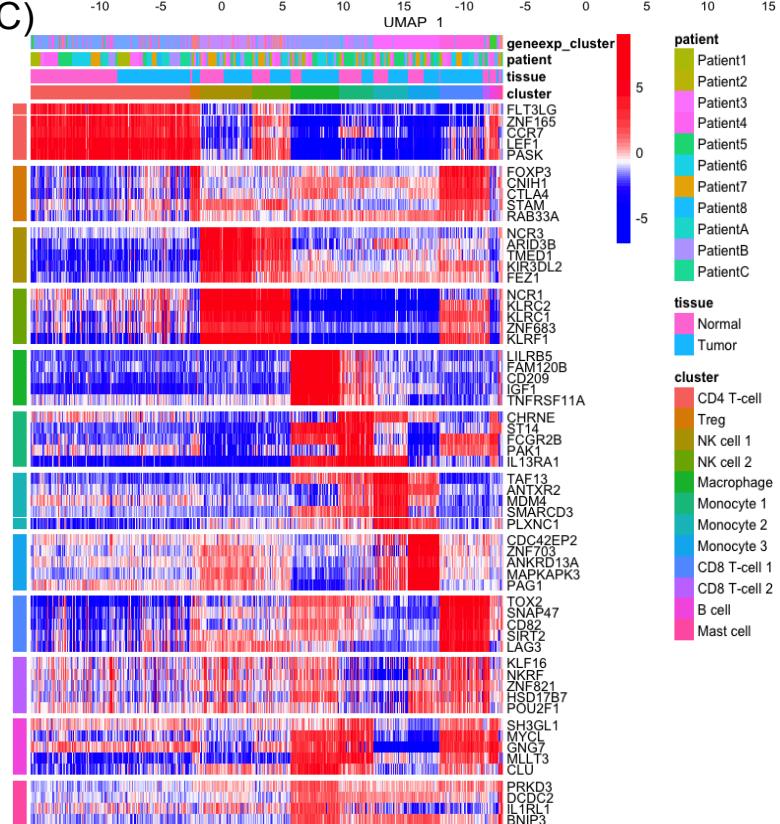


Normal

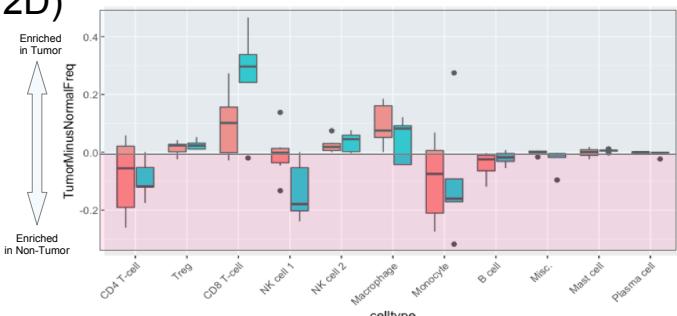
Tumor



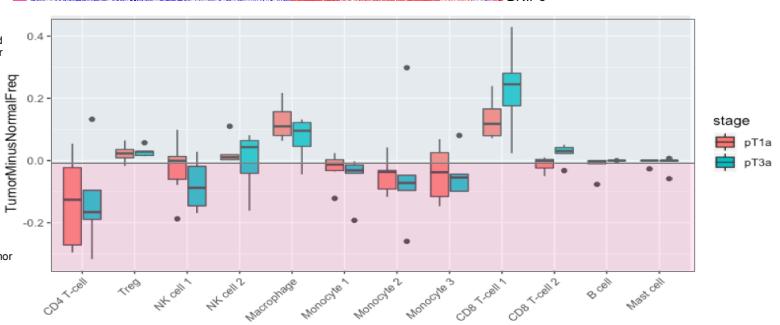
2C)



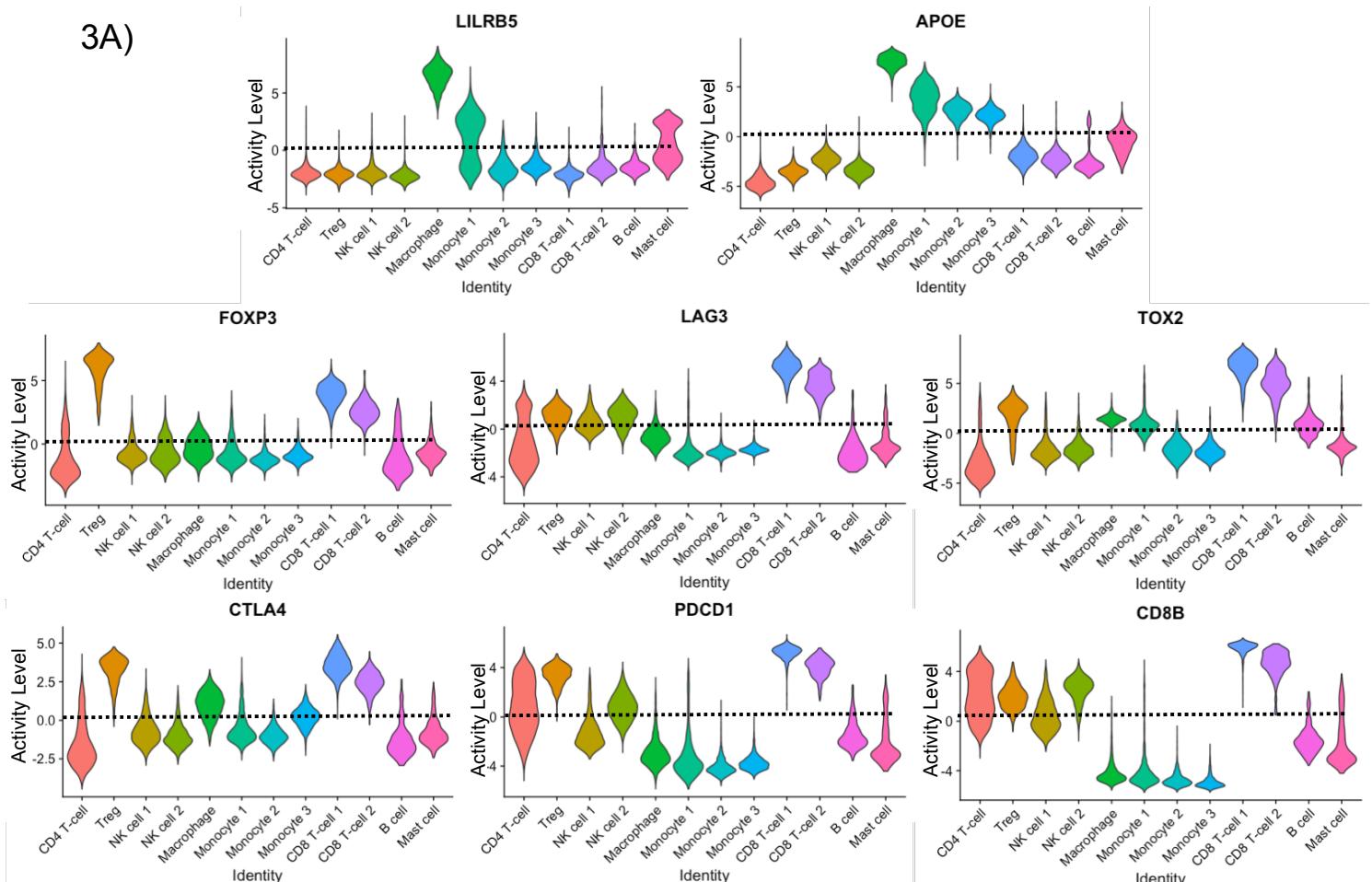
2D)



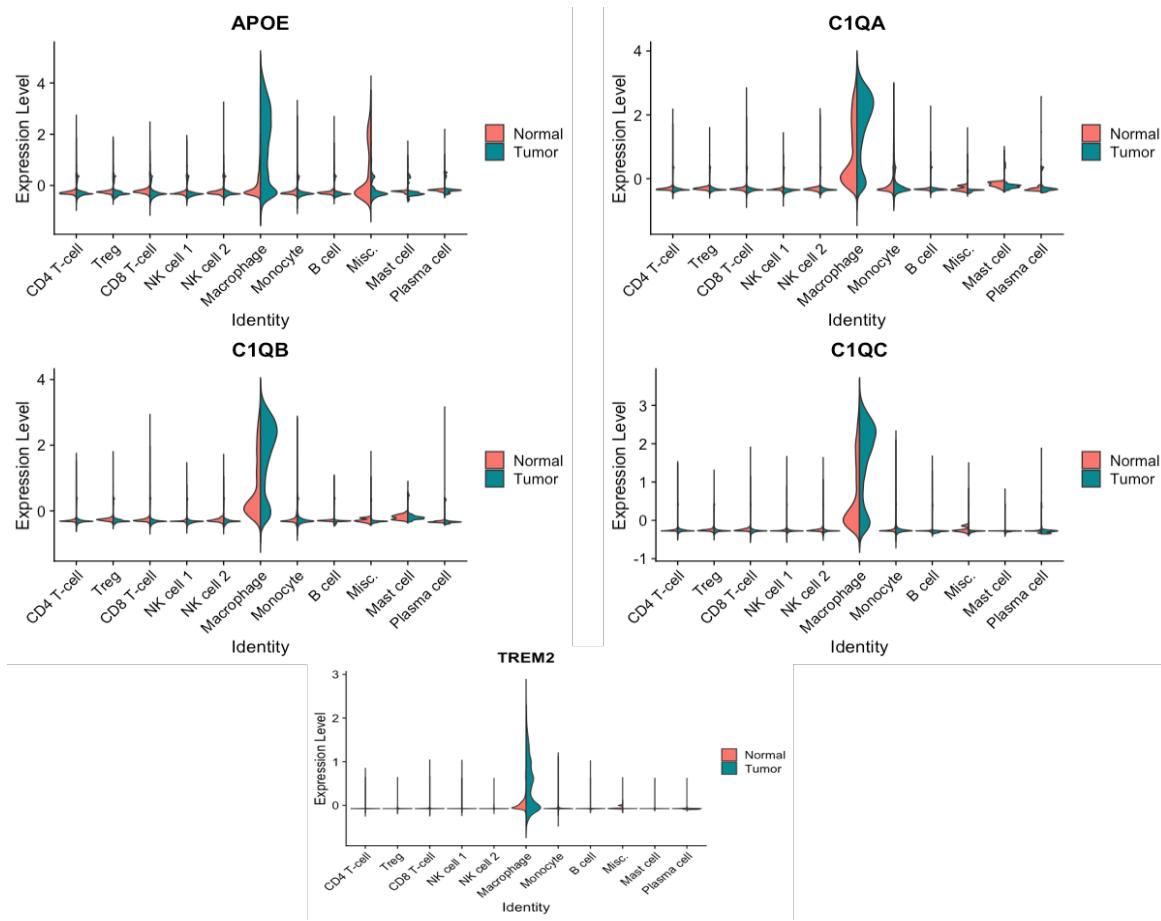
2E)



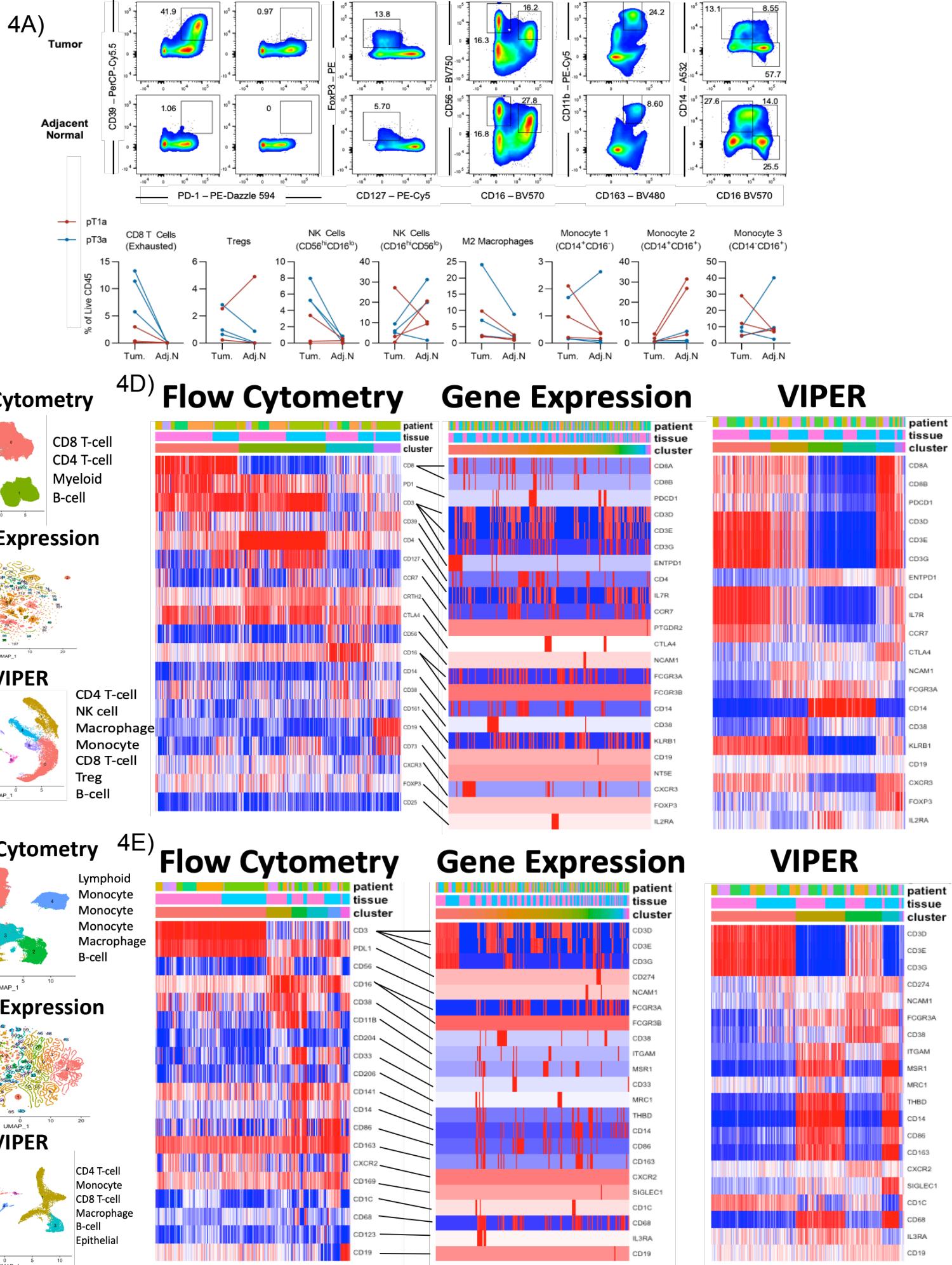
**Figure 3**



3B)

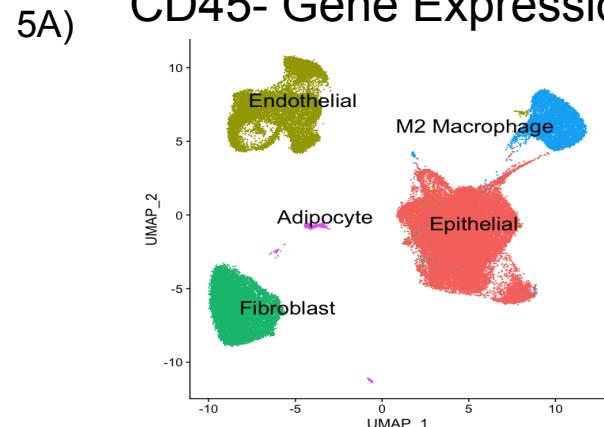


# Figure 4

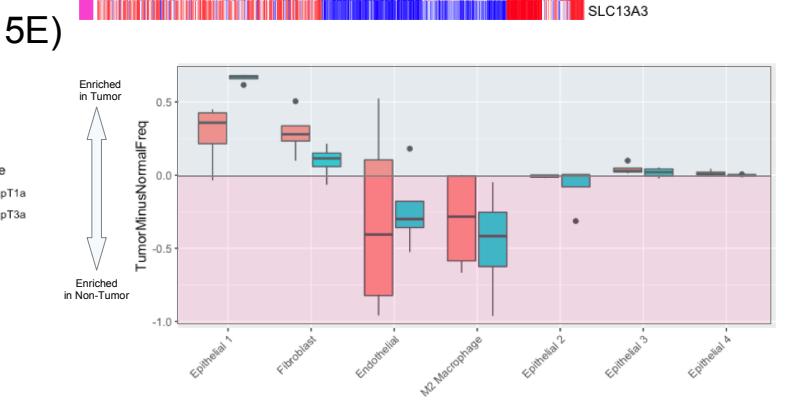
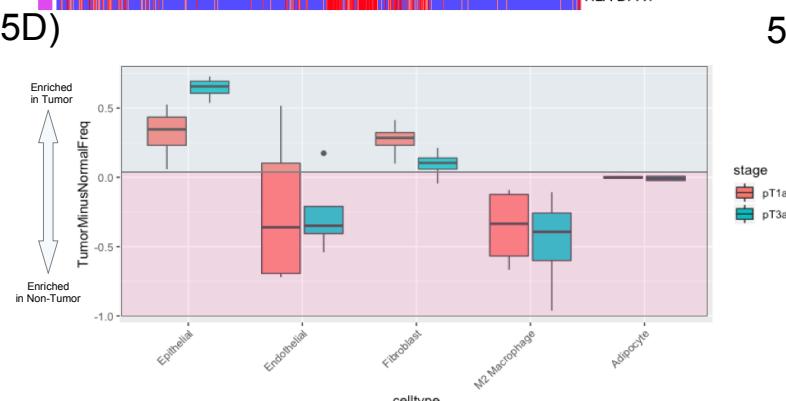
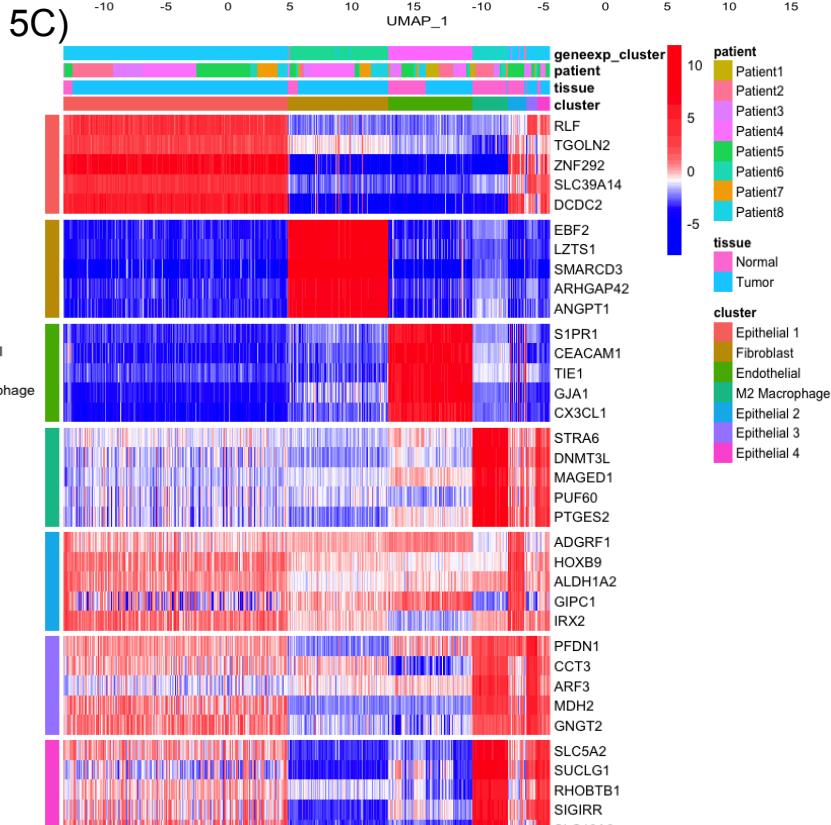
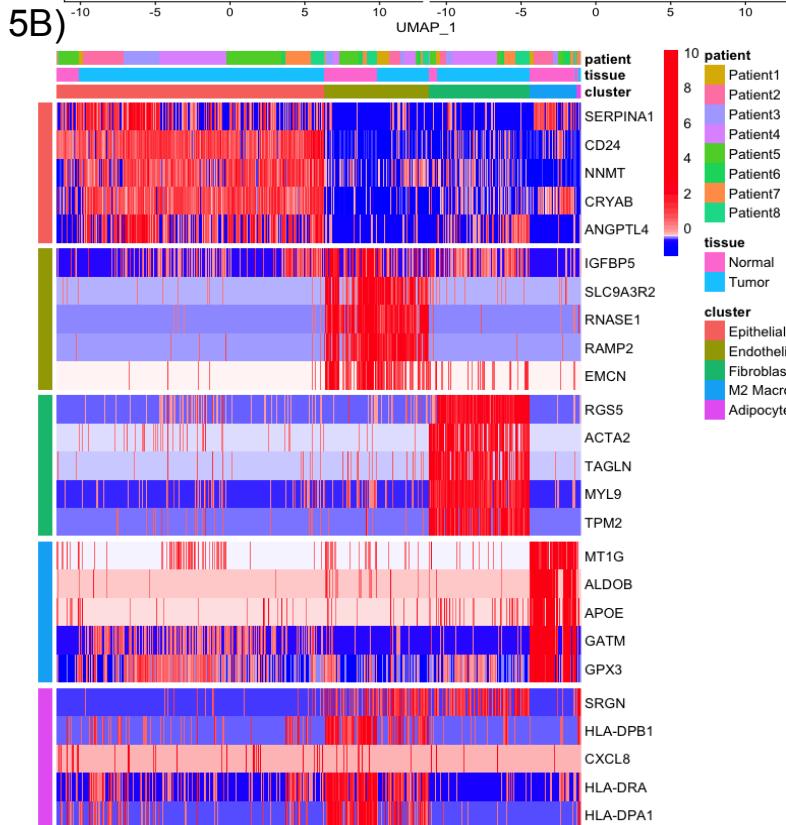
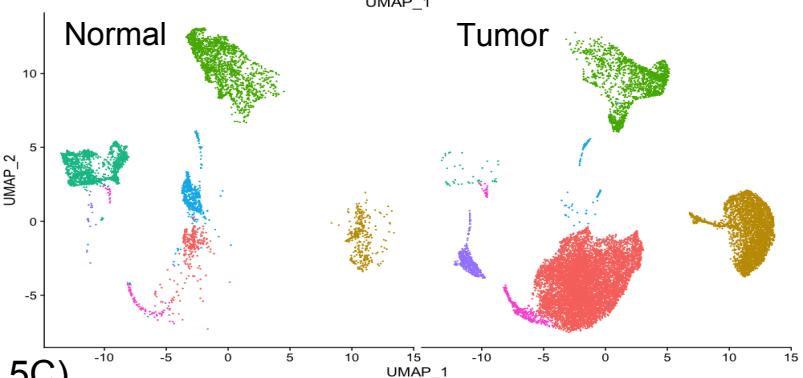
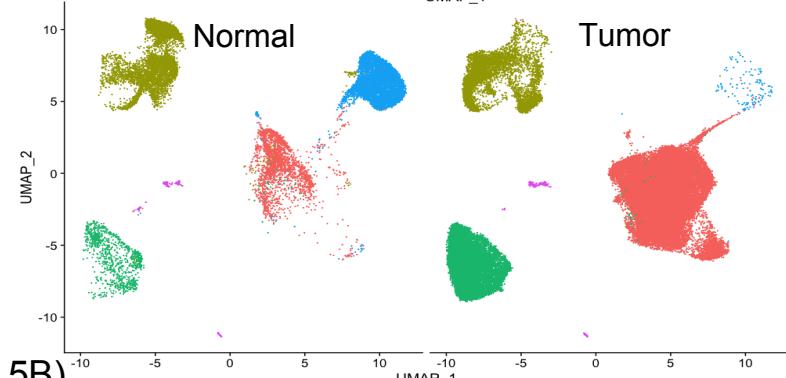
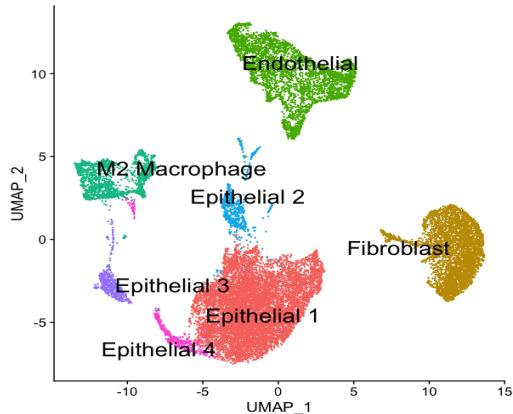


# Figure 5

## CD45- Gene Expression

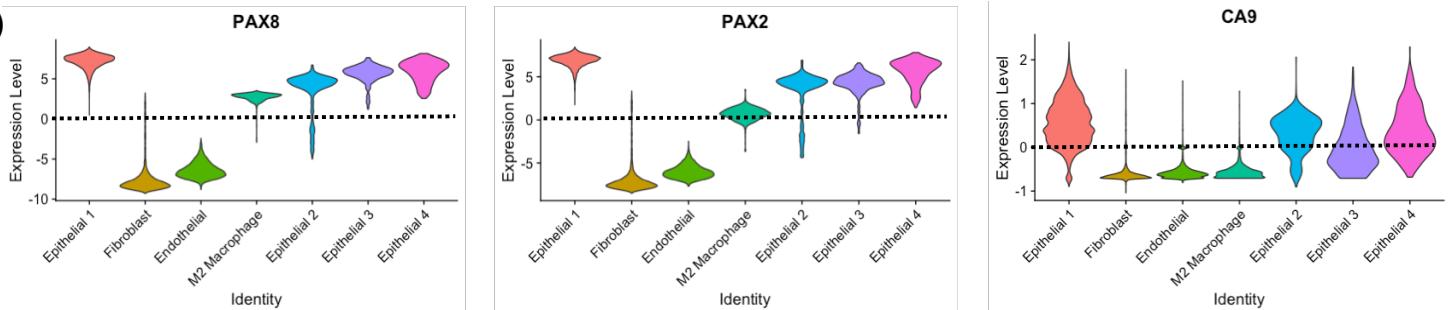


## CD45- VIPER



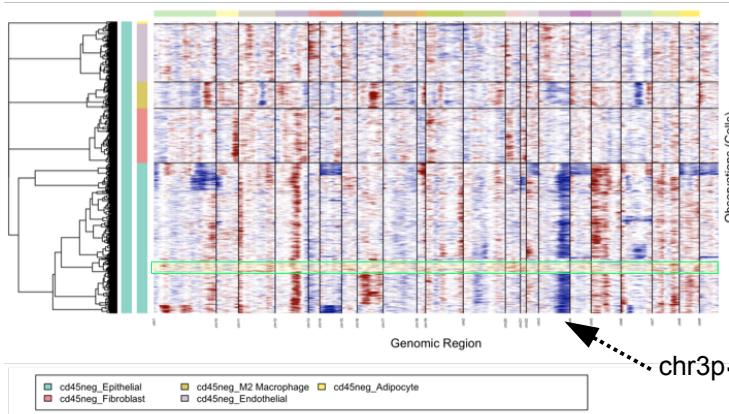
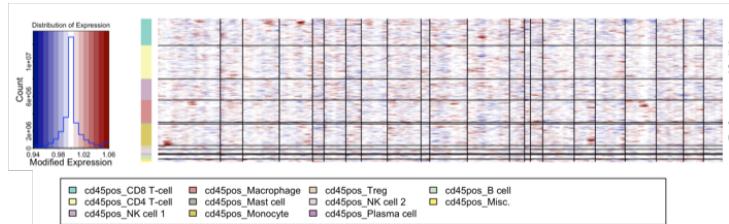
# Figure 6

6A)



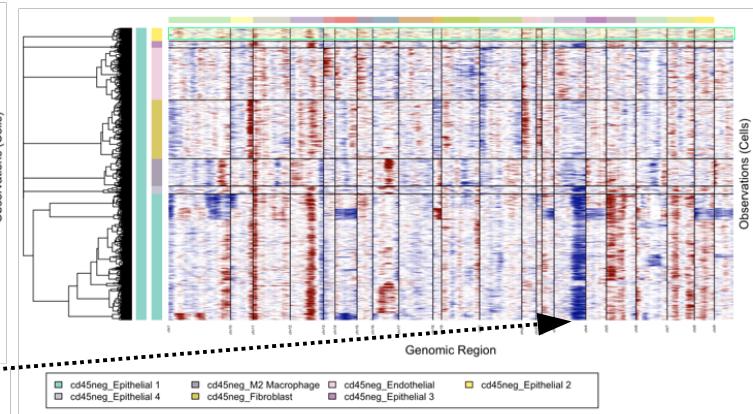
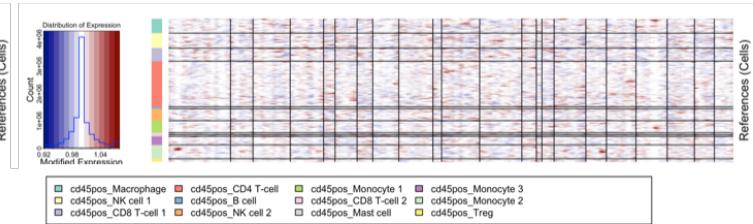
6B)

Clustered by Gene Expression



6C)

Clustered by VIPER



6D)

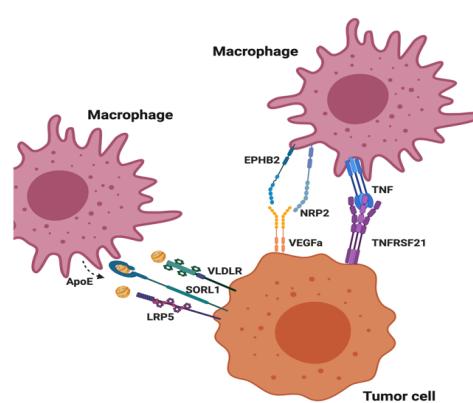
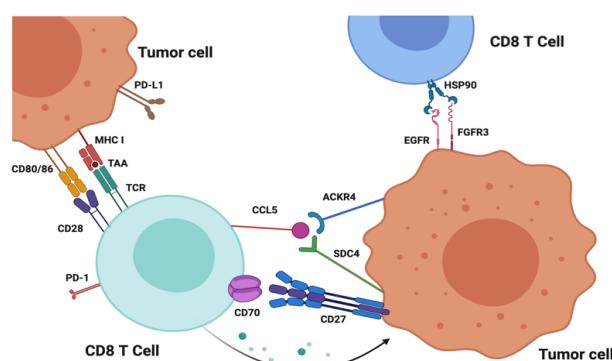
Tumor :: T cell Interactions

Ligand	Receptor	Ligand Cluster	Receptor Cluster
CCL5	ACKR4	CD8 T-cell 1	Epithelial 3
CCL5	SDC4	CD8 T-cell 1	Epithelial 1
CD70	CD27	Epithelial 1	CD8 T-cell 1
HSP90AA1	EGFR	CD8 T-cell 2	Epithelial 1
HSP90AA1	FGFR3	CD8 T-cell 2	Epithelial 4

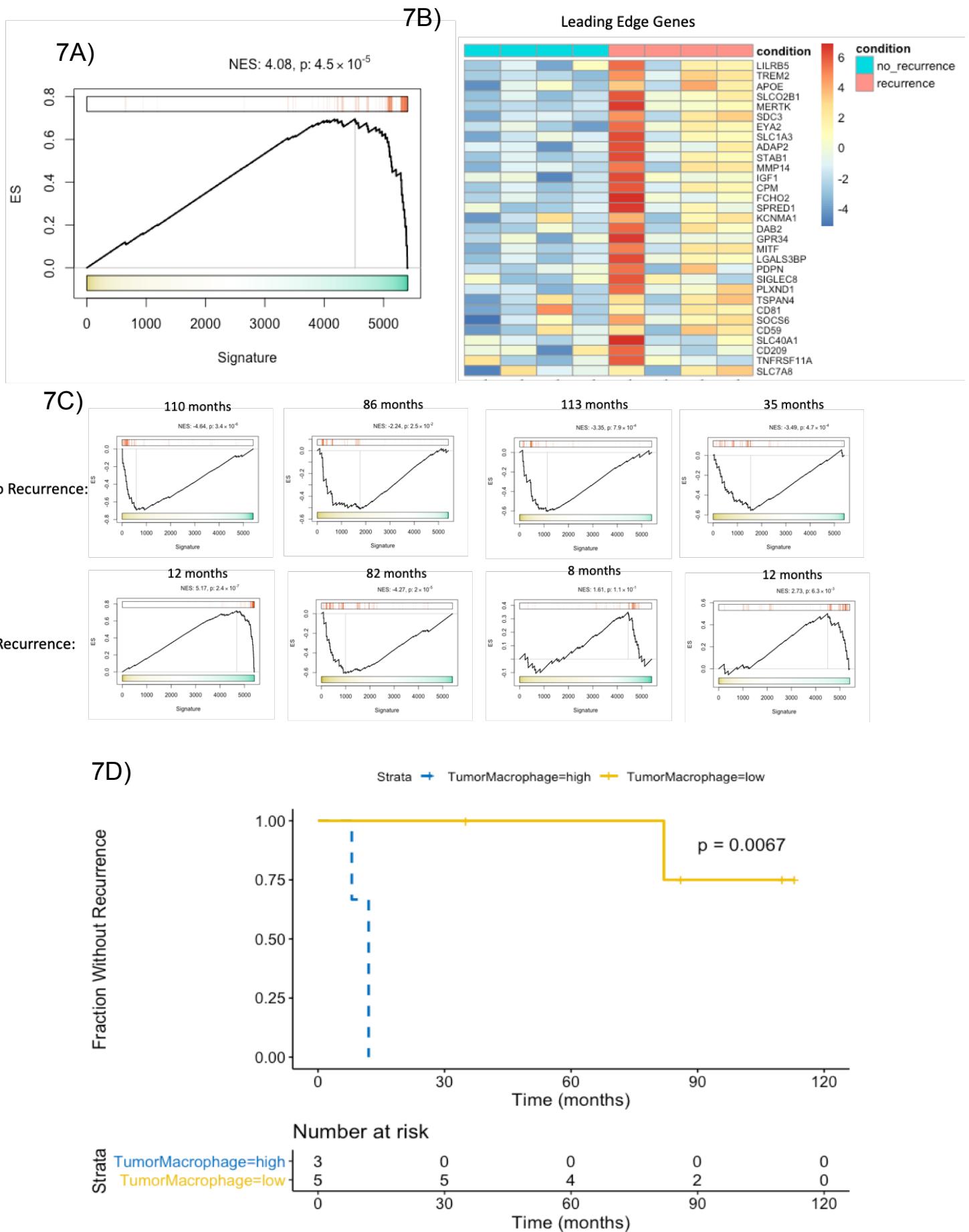
Tumor :: Macrophage Interactions

Ligand	Receptor	Ligand Cluster	Receptor Cluster
APOE	LRP5	Macrophage	Epithelial 4
APOE	SORL1	Macrophage	Epithelial 1
APOE	VLDLR	Macrophage	Epithelial 1
CYR61	ITGB5	Epithelial 1	Macrophage
ICAM1	EGFR	Macrophage	Epithelial 1
MDK	LRP1	Epithelial 1	Macrophage
MDK	SDC3	Epithelial 1	Macrophage
MDK	TSPAN1	Epithelial 1	Macrophage
RARRES2	CMKLR1	Epithelial 1	Macrophage
SERPINA1	LRP1	Epithelial 3	Macrophage
TNF	TNFRSF21	Macrophage	Epithelial 4
VEGFA	EPHB2	Epithelial 1	Macrophage
VEGFA	NRP2	Epithelial 1	Macrophage

6E)



# Figure 7



# Figure 8

