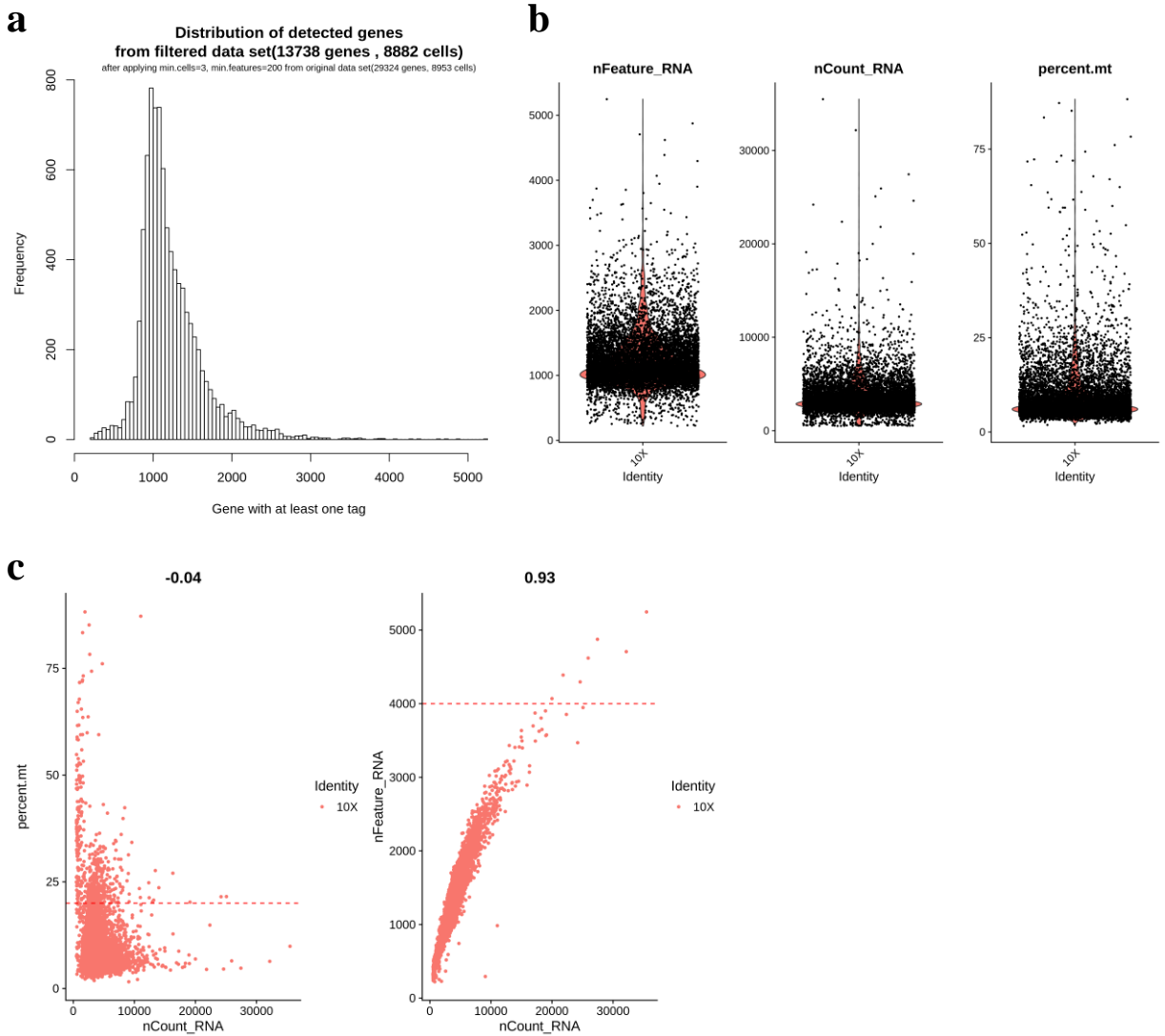# Cellular heterogeneity of circulating CD4^{+}CD8^{+} double-positive T cells characterized by single-cell RNA sequencing

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Supplementary Figure S1

a

b

c

S1. Quality control result for scRNA-seq analysis. (a) The histogram showing the frequency of cells containing genes with at least one UMI after filtering out cells/features from original data set. (b) The violin plots representing the distribution of nGene/nUMI/percentage of mitochondrial gene for each cell. (c) The scatter plots representing relationships of mitochondrial percentage-molecule counts and genes-molecule counts for each cell.

Supplementary Figure S2
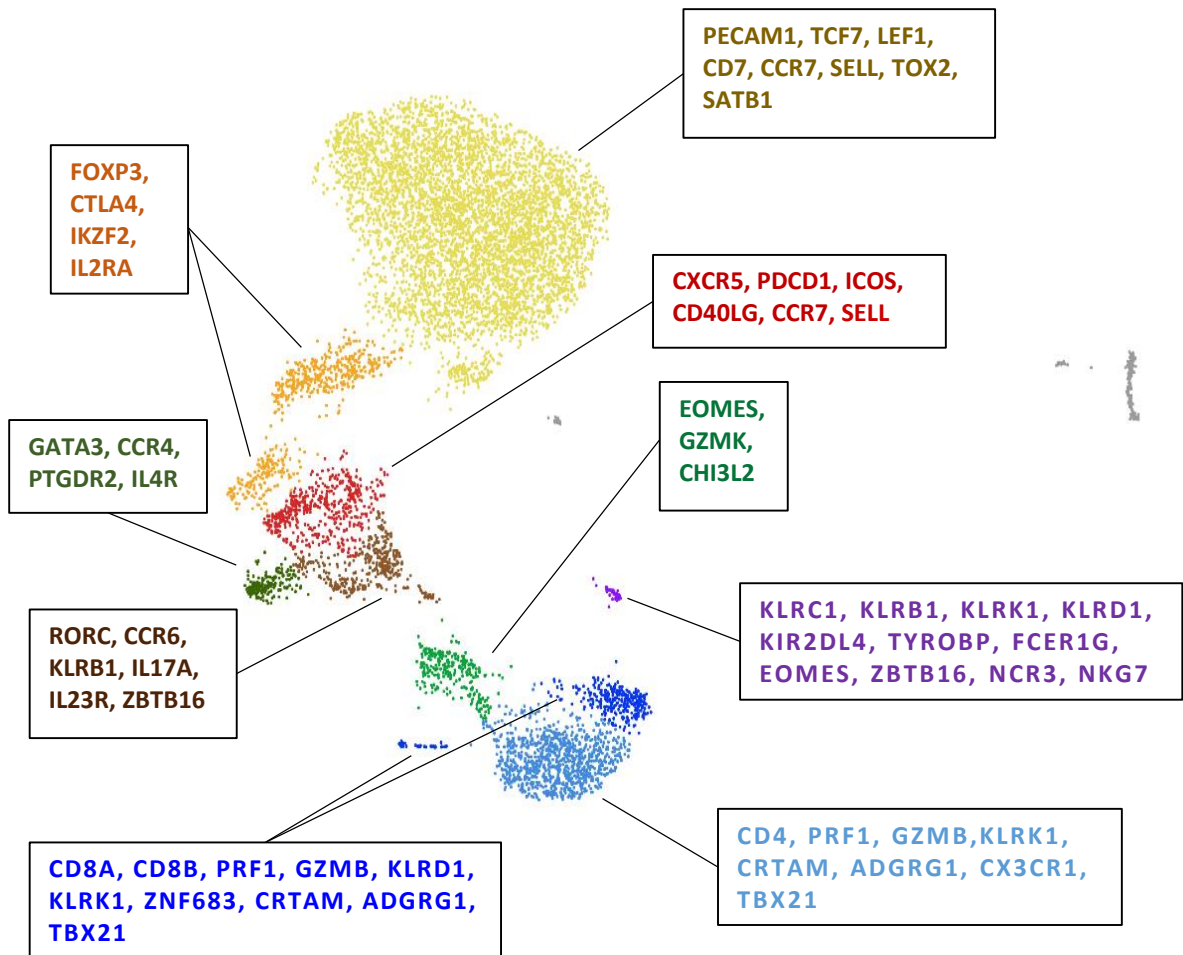
S2. Differential expression of genes that define heterogeneous clusters of CD4$^+$CD8$^+$ DP T cells.

Supplementary Figure S3

a

b

S3. (a) UMAP representing *CD8αα*. (b) UMAP representing T and B cell-associated genes.