

Figure S1. Forest map of the univariate Cox analysis between significant prognostic LRGs and overall survival of ccRCC patients. LRGs, lymphangiogenesis-related genes;

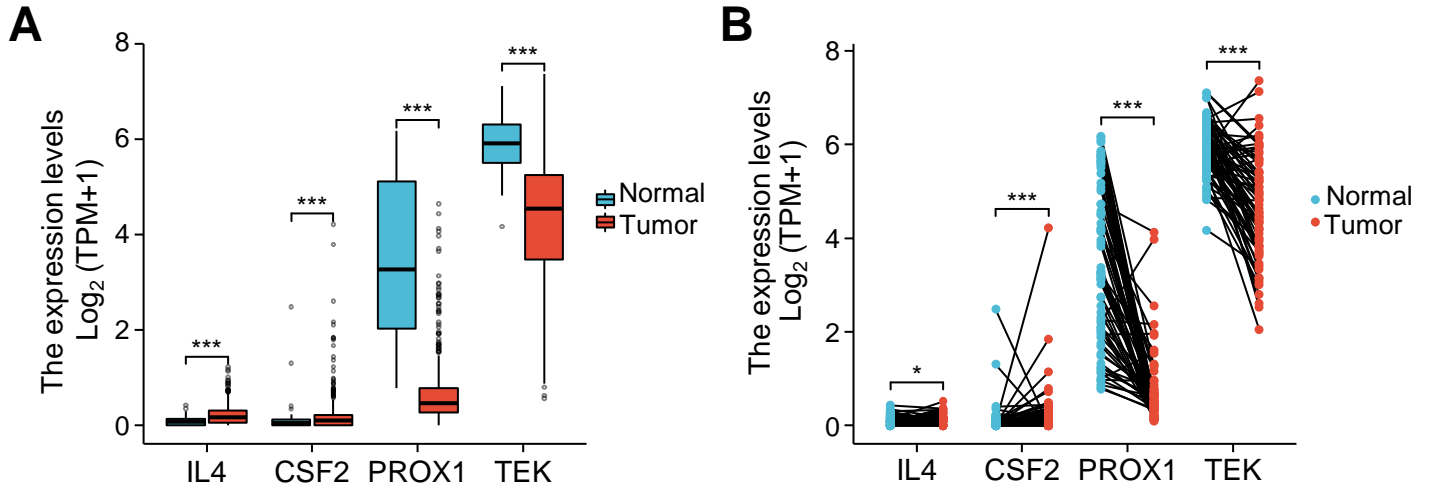


Figure S2. Differential expression of the four selected LRGs between normal and ccRCC tissue samples in the TCGA dataset. (A) The expression of the four LRGs compared between ccRCC and normal tissue. (B) Matched pairwise comparative analysis of the expression of four LRGs between ccRCC and their corresponding normal tissues. LRGs, lymphangiogenesis-related genes; *, $P < 0.05$; **, $P < 0.01$; ***, $P < 0.001$.

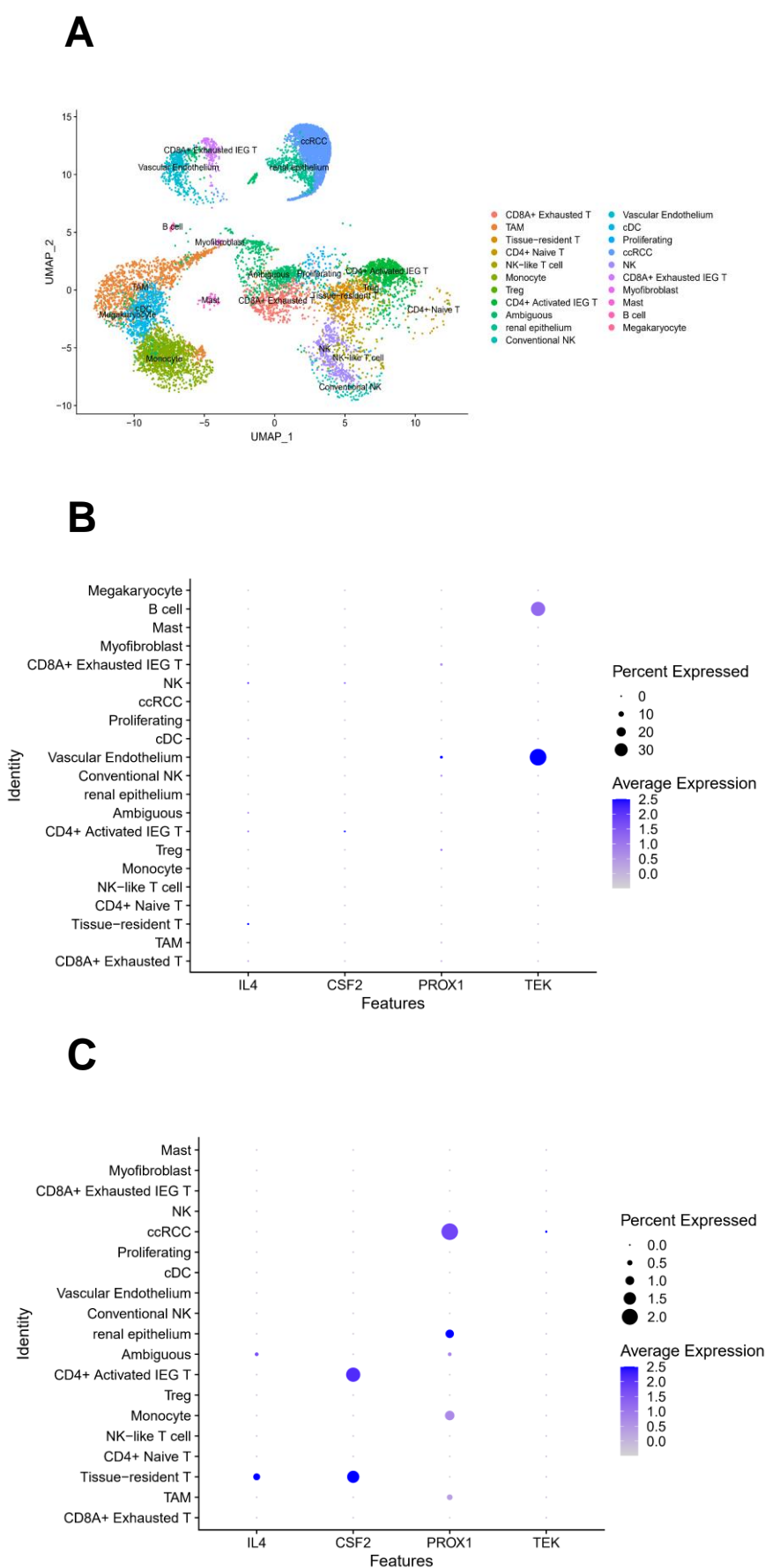


Figure S3. The selected genes expression in the ccRCC single-cell sequencing database. (A) A UMAP embedding plot of 39,390 cells grouped into 21 clusters of 2 patients named UT1 and UT2. (B, C) Dot plots showing the selected genes across all cell clusters of UT1(B) and UT2(C). The dot size indicates the fraction of expressing cells, and dots are colored according to normalized z score expression.