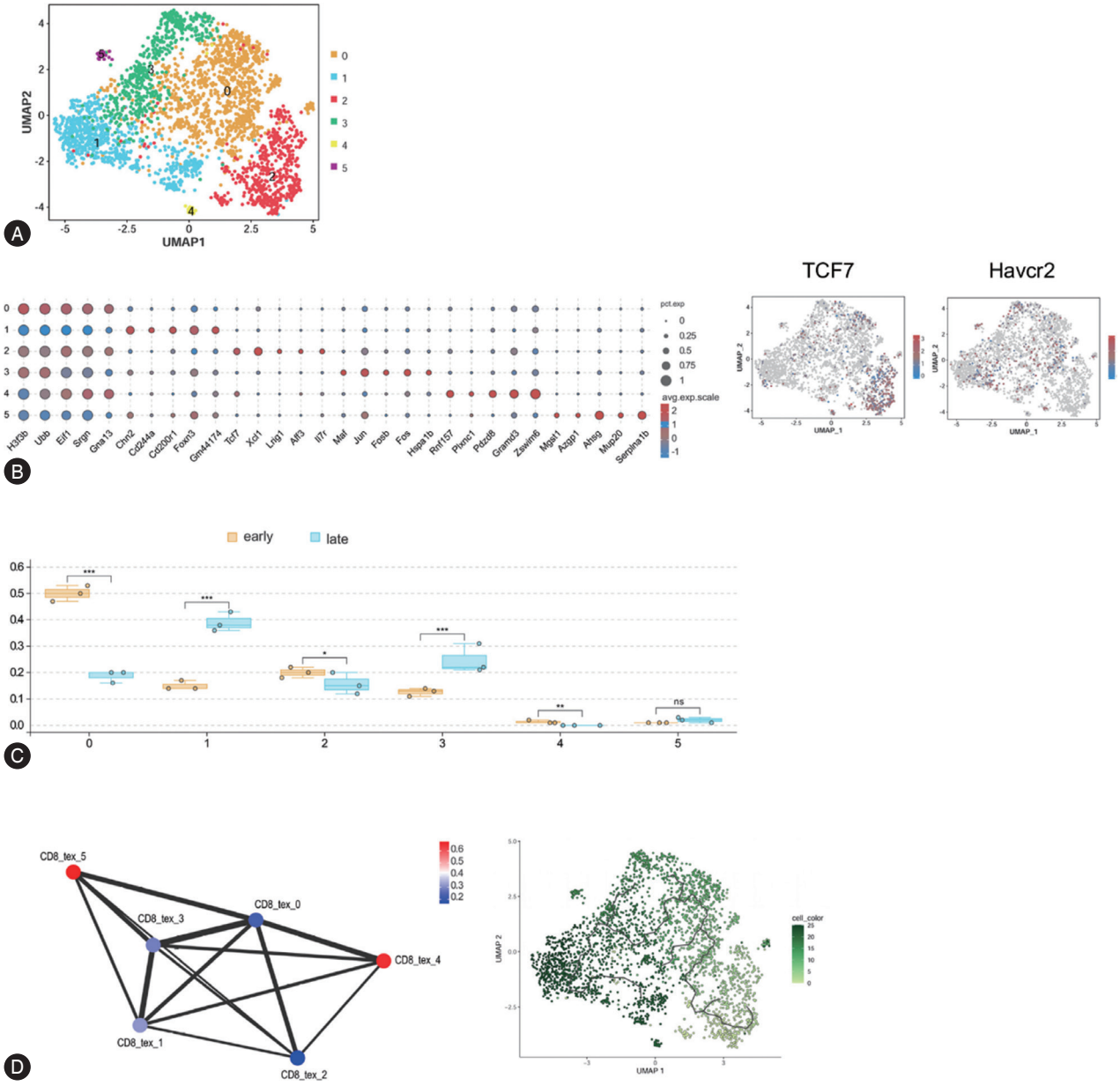

Supplementary Figure 5. Reclustering of CD8$^+$ Tex cells and trajectory analysis. (A) UMAP showing the subpopulation of CD8$^+$ Tex cells from early and late stage HCC, cells were colored by clusters. (B) Left, dot plot for expression of top5 DEGs in exhausted CD8$^+$ T cell sub-clusters. Median and right visualization of *Tcf7* and *Havcr2* transcript levels within individually identified CD8$^+$ Tex cell populations. (C) Boxplot illustrating the proportions of sub-clusters in early and late stage HTVi tumors. (D) Left, PAGA algorithm for analyzing transition tendency among different sub-clusters. Right, monocle3 pseudotime analysis showing the transition tendency among different sub-clusters.

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