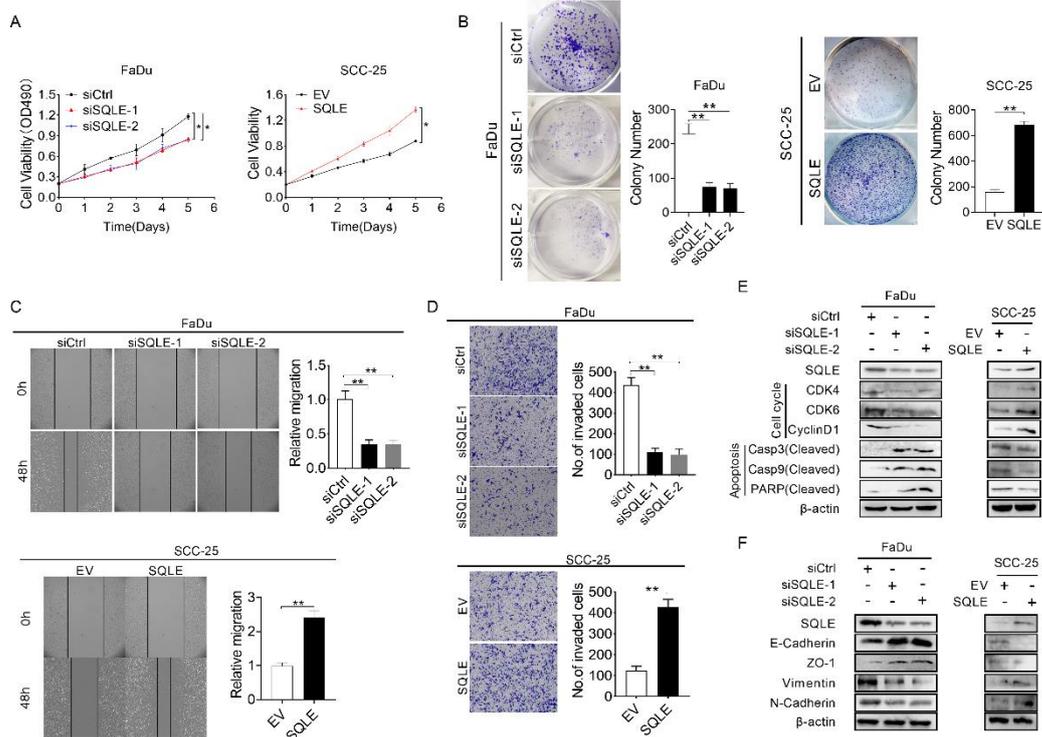


## **Supplementary information**

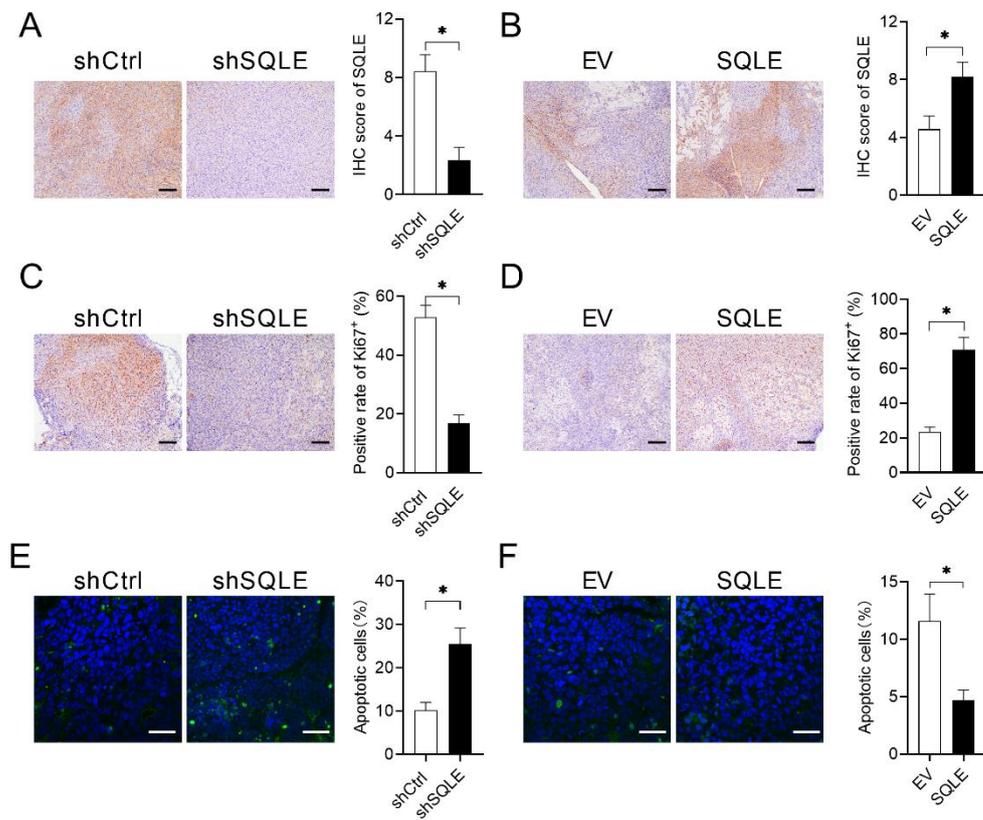
### **Upregulation of SQLE Contributes to Poor Survival in Head and Neck Squamous Cell Carcinoma**



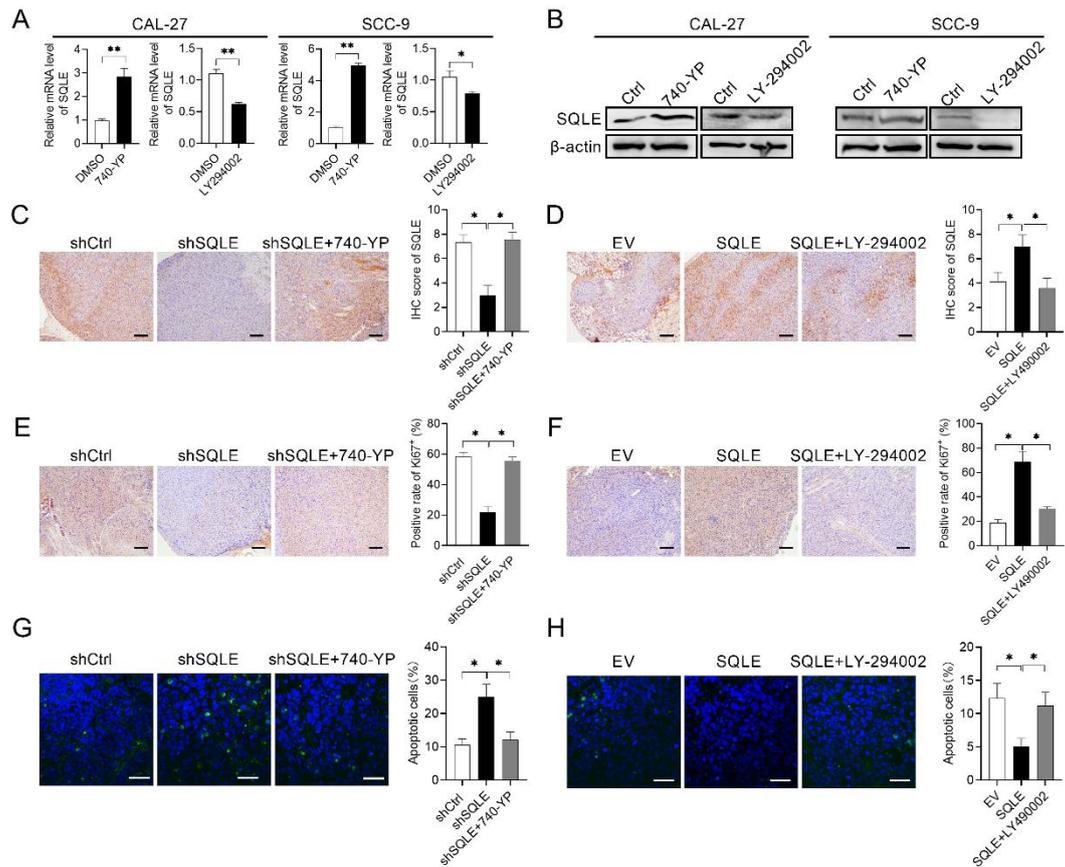


**Figure S2. SQLE upregulation promoted HNSCC cells proliferation and metastasis *in vitro*.**

(A-B) MTS and colony formation assays for determining the cell growth ability of HNSCC cell treated as indicated. (C-D) Wound healing and transwell invasion assays for evaluating the cell migration ability of FaDu and SCC-25 cells treated as specified. (E) Expression of markers related to cell proliferation and apoptosis detected in HNSCC cells by WB assessment. (F) WB analysis of EMT-related protein expression in HNSCC cells treated as indicated.

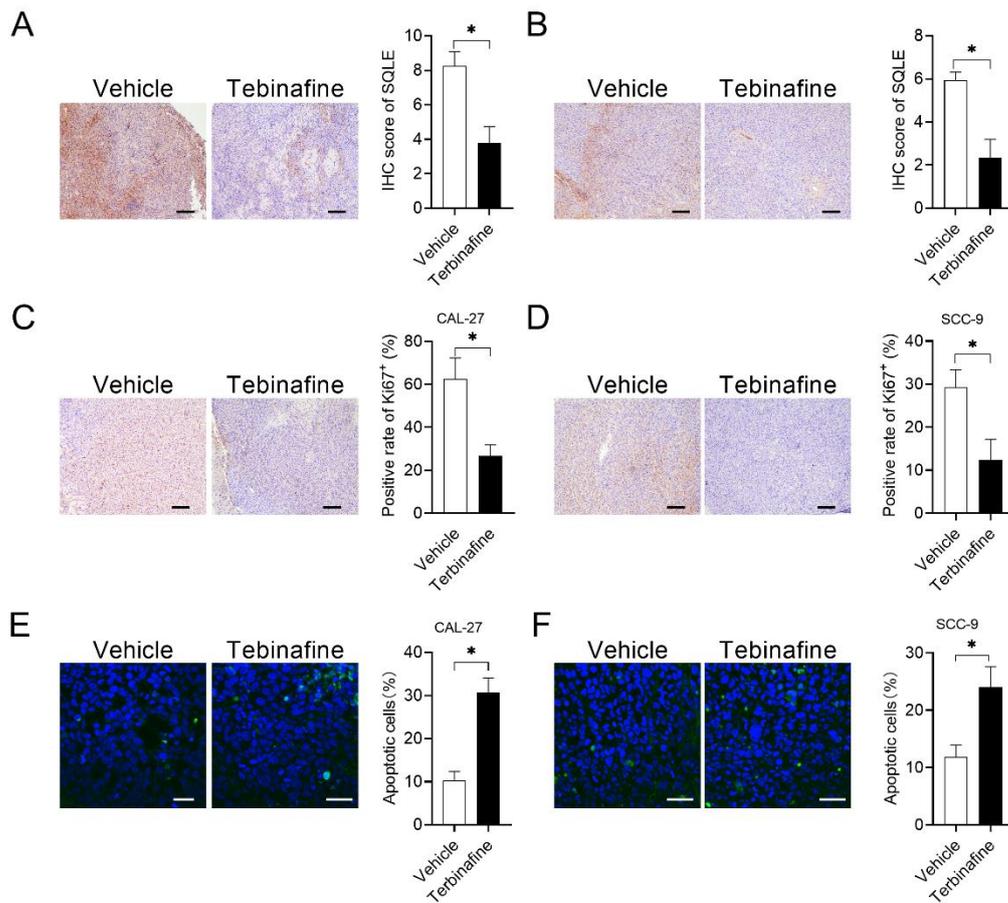


**Figure S3. Morphologic examination for HNSCC cells xenograft tumors.** (A-B) IHC analyses for SQLE expression in xenograft tumors treated as indicated. (C-D) IHC analyses for Ki67 expression in xenograft tumors treated as indicated. (E-F) TUNEL assays to analyze apoptotic cells rates in xenograft tumors treated as indicated.



**Figure S4. Effects of 740 Y-P and LY294002 treatments on HNSCC cells *in vitro* and *in vivo*.**

(A-B) qRT-PCR and western blotting analyses for SQLE expression were performed in HNSCC cells. (C-D) IHC analyses for SQLE expression in xenograft tumors treated as indicated. (E-F) IHC analyses for Ki67 expression in xenograft tumors treated as indicated. (G-H) TUNEL assays to analyze apoptotic cells rates in xenograft tumors treated as indicated.



**Figure S5. Morphologic examination for HNSCC cells xenograft tumors treated by terbinafine *in vivo*.**

(A-B) IHC analyses for SQLE expression in xenograft tumors treated as indicated. (C-D) IHC analyses for Ki67 expression in xenograft tumors treated as indicated. (E-F) TUNEL assays to analyze apoptotic cells rates in xenograft tumors treated as indicated.