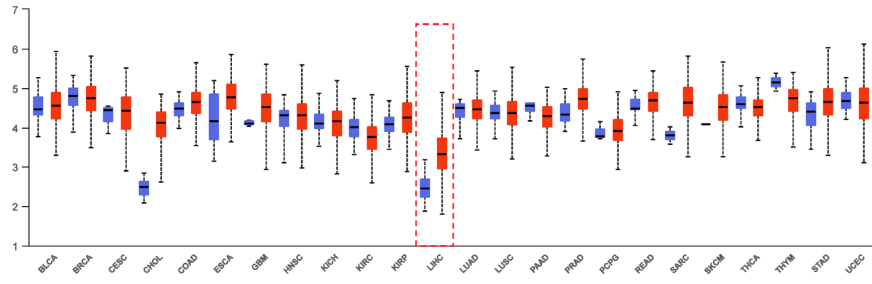
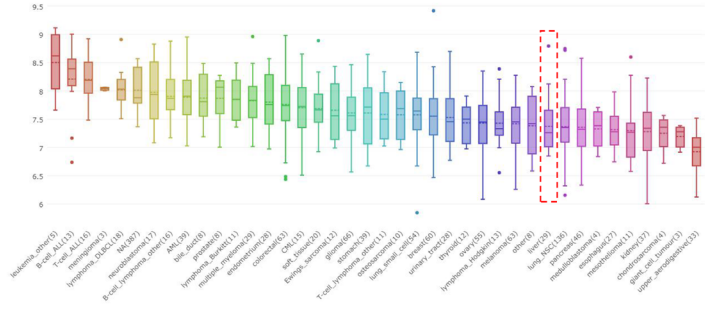


A

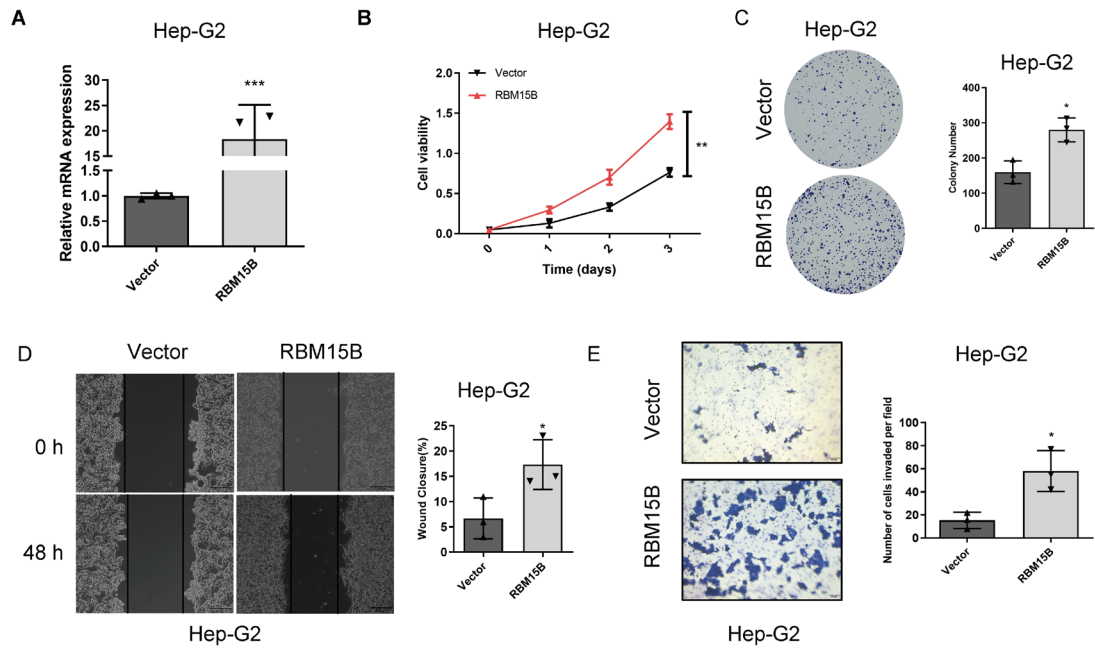


B



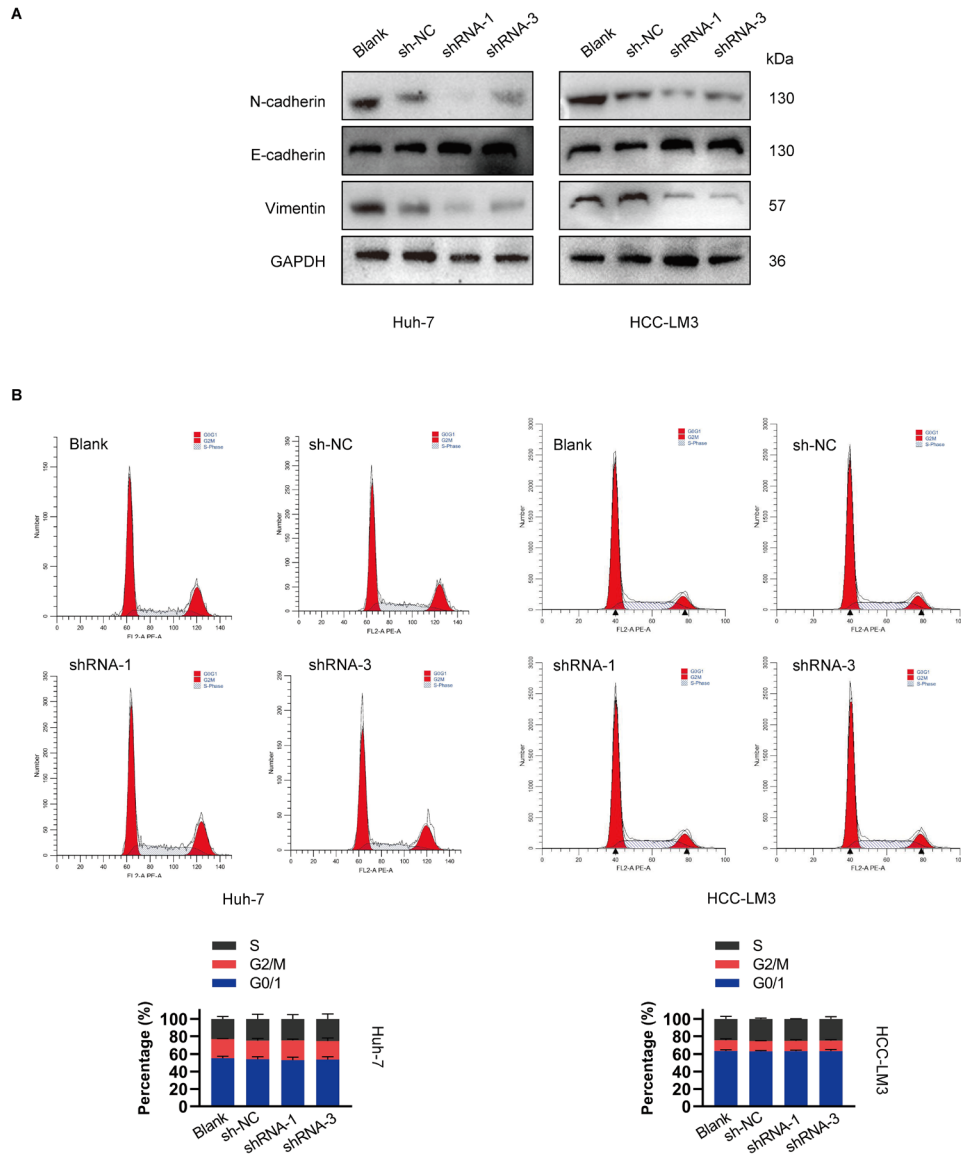
**Fig. S1 The mRNA expression analysis of RBM15B**

A Analysis of RBM15B mRNA expression according to the TCGA database. B Analysis of RBM15B mRNA expression according to the CCLF database.



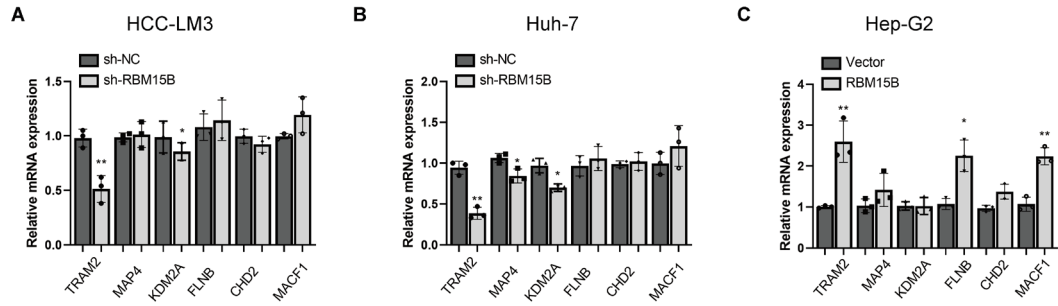
**Fig. S2 RBM15B overexpression promotes HCC cell growth and metastasis**

A The RBM15B-overexpressing plasmid was transformed into the Hep-G2 cell line. B, C CCK-8 and colony formation experiments showed that RBM15B functions in cell proliferation. D, E The effect of RBM15B overexpression on cell invasion and migration.



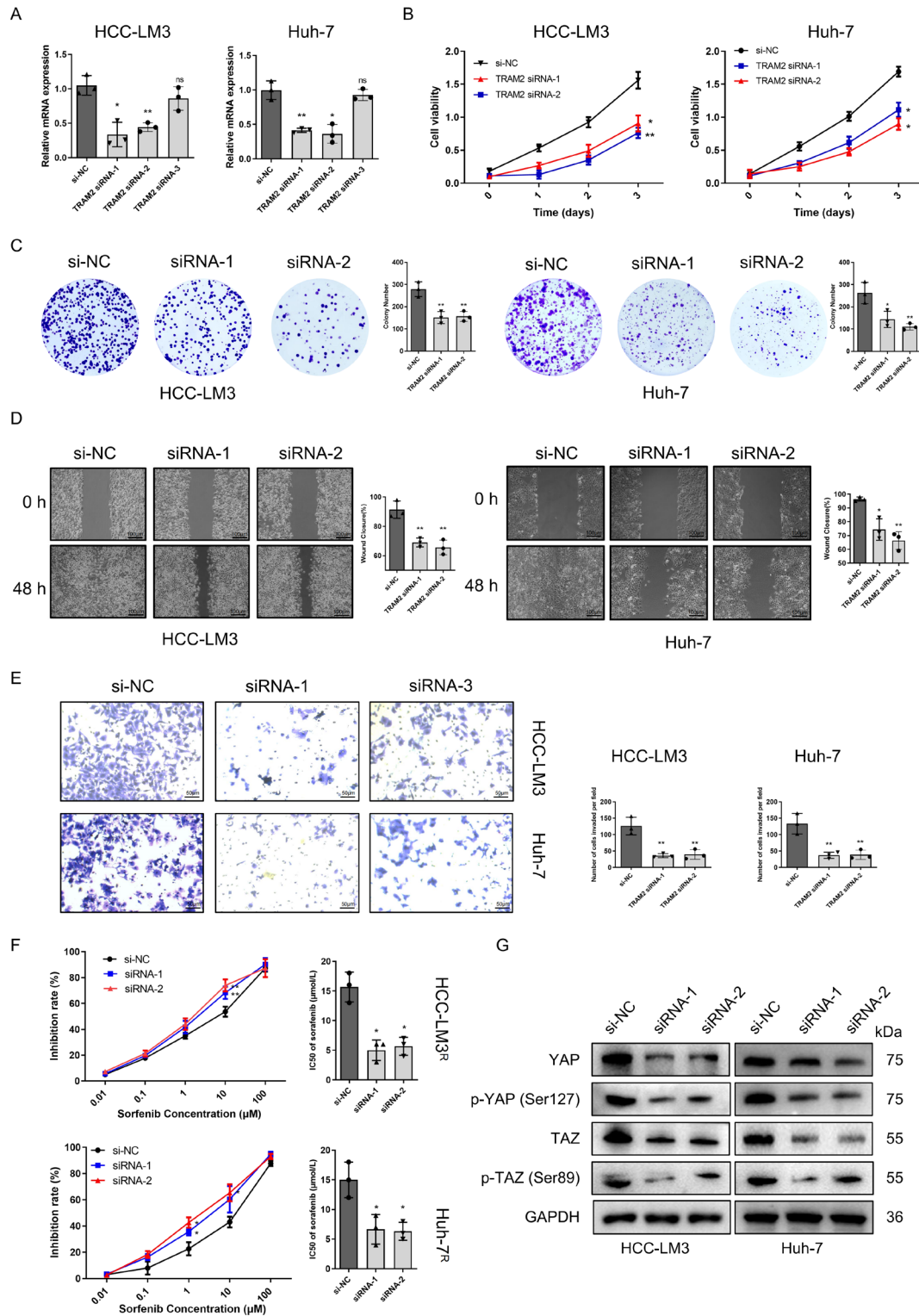
**Fig. S3 RBM15B promotes epithelial-mesenchymal transition (EMT)**

A Western blot results showed the effect of RBM15B knockdown on EMT in Huh-7 and HCC-LM3 cells. B Flow cytometry results showed the effect of RBM15B knockdown on cell cycle progression.



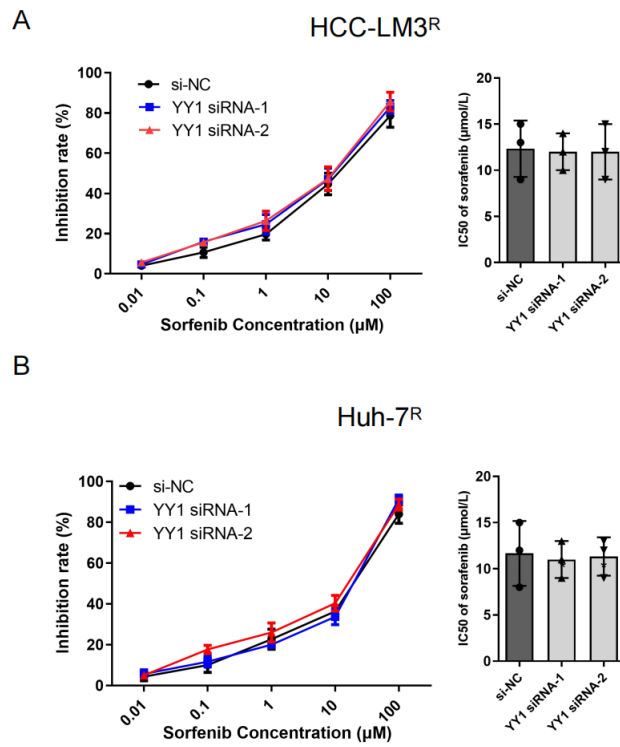
**Fig. S4 Differential gene expression analysis of cells with RBM15B knockdown and overexpression**

A, B Analysis of differentially expressed genes in RBM15B knockdown versus control Huh-7 and HCC-LM3 cells. C Analysis of differentially expressed genes in RBM15B-overexpressing versus control Hep-G2 cells.



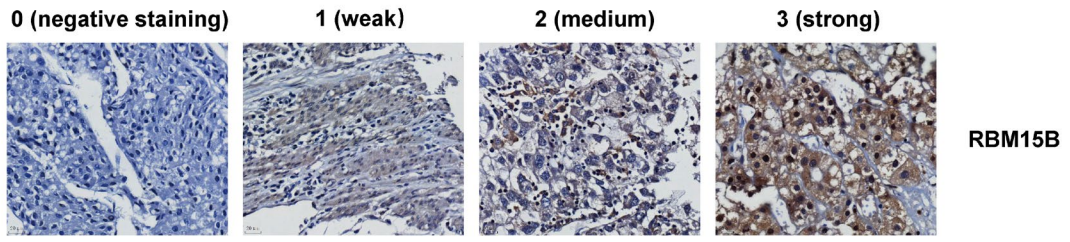
**Fig. S5 TRAM2 promotes HCC cell proliferation and metastasis**

A The expression of TRAM2 knockdown in HCC cell lines by siRNA. B, C CCK-8 and colony formation assays showing the proliferation ability of HCC cell lines. D, E Scratch wound healing motility assay showing cell migration in HCC cell lines. E Transwell Matrigel invasion assay showing cell invasion in HCC cell lines. F The effect of TRAM2 knockdown on sorafenib resistance. G Detection of YAP, TAZ, p-YAP, p-TAZ expression in HCC cells with TRAM2 knockdown.



**Fig. S6 The effect of YY1 on sorafenib resistance.**

A, B The effect of YY1 knockdown on sorafenib resistance.



**Fig. S7 Representative images of different intensities of RBM15B IHC staining.**