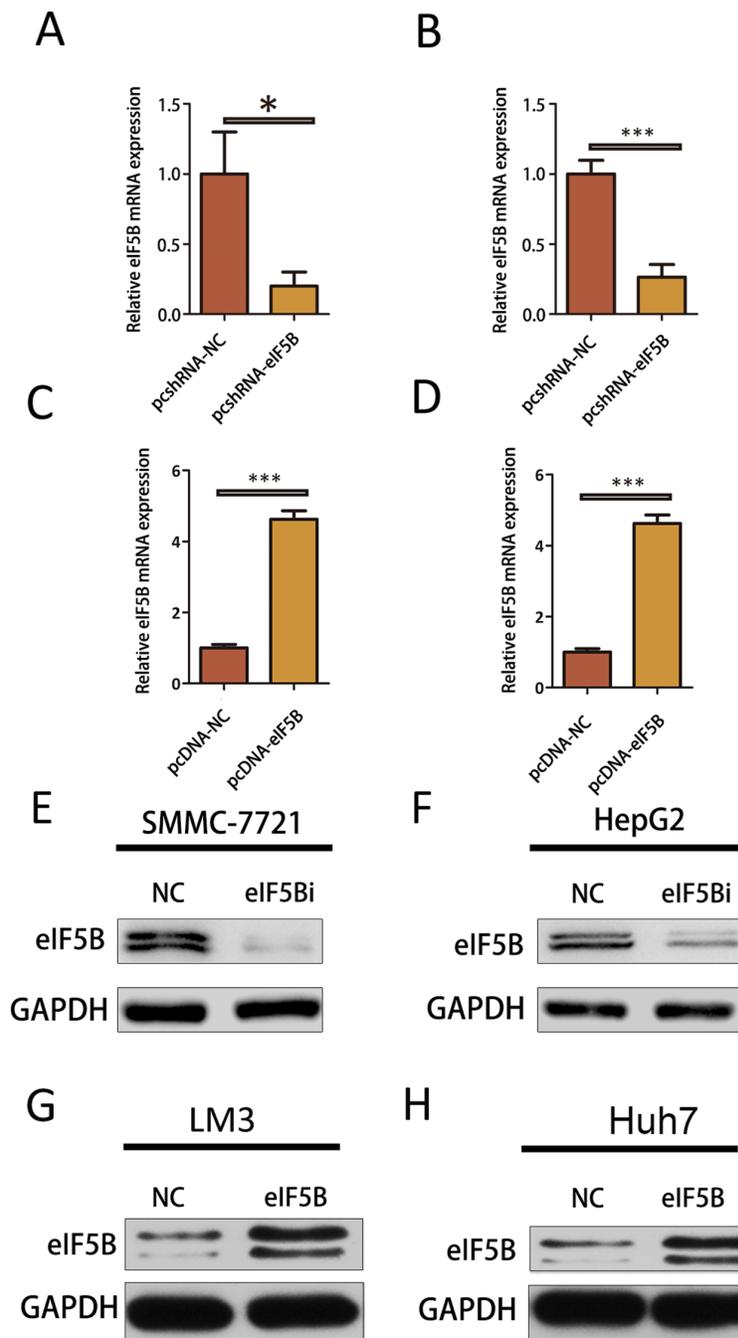
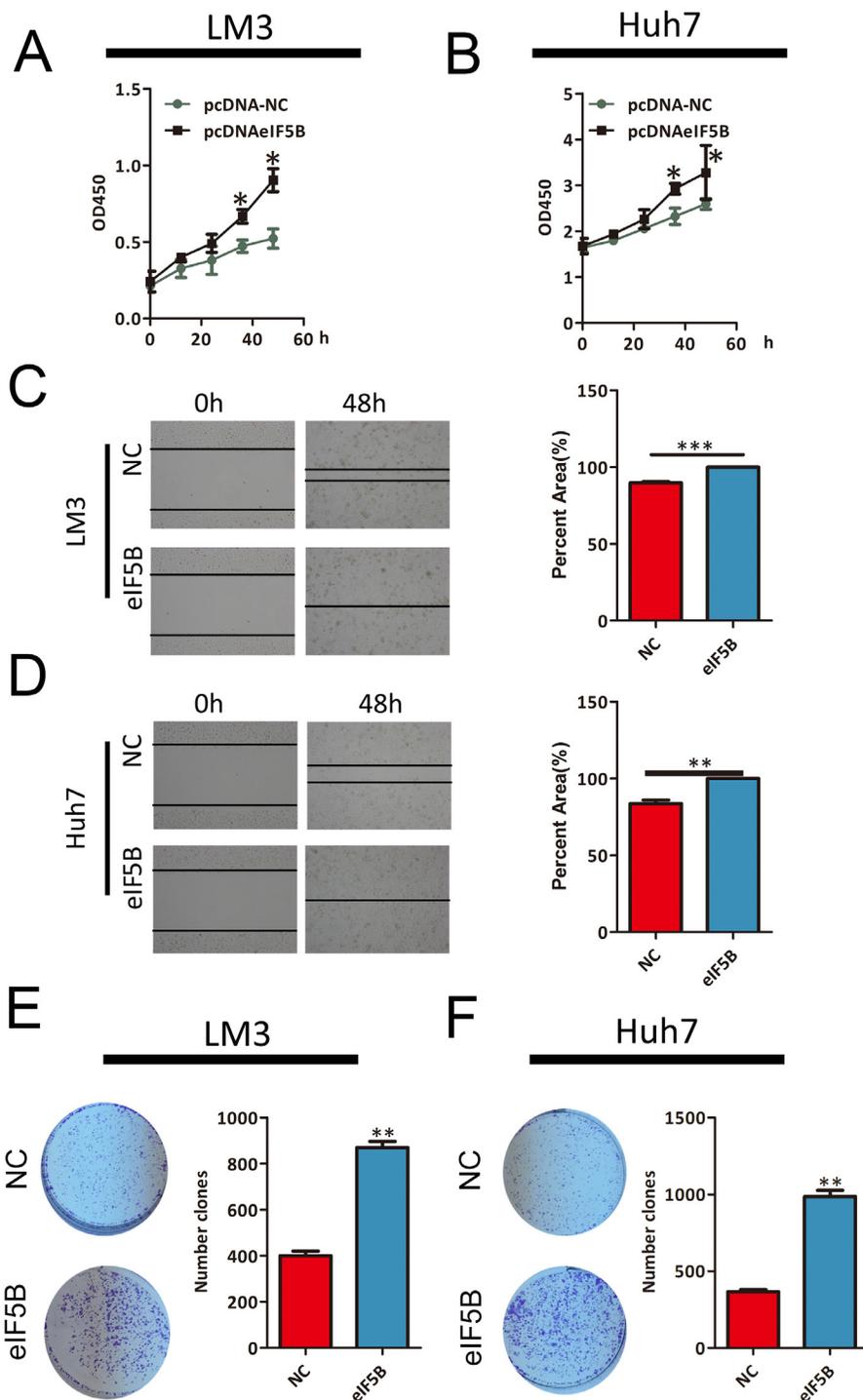


eIF5B increases ASAP1 expression to promote HCC proliferation and invasion

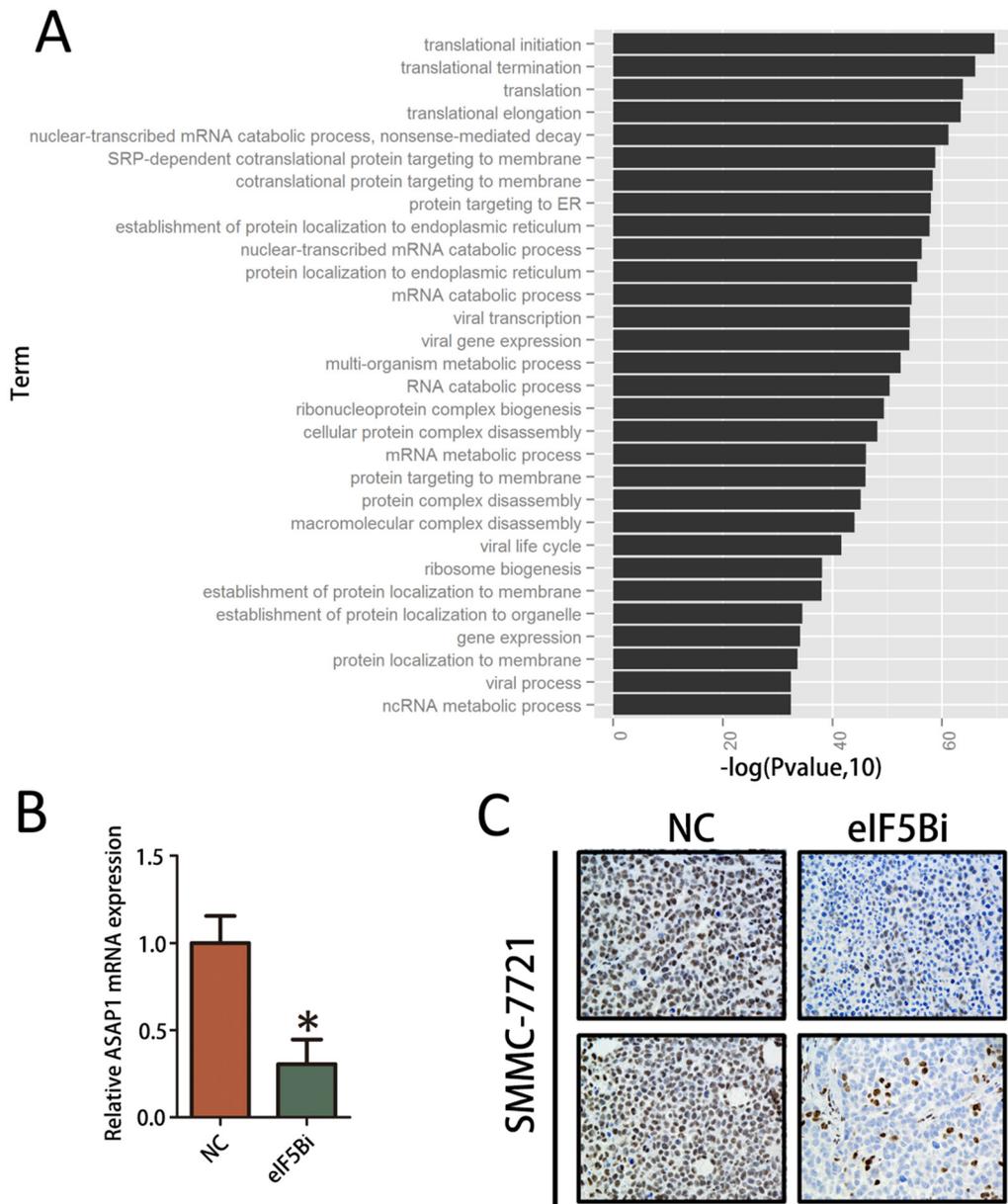
SUPPLEMENTARY FIGURES AND TABLE



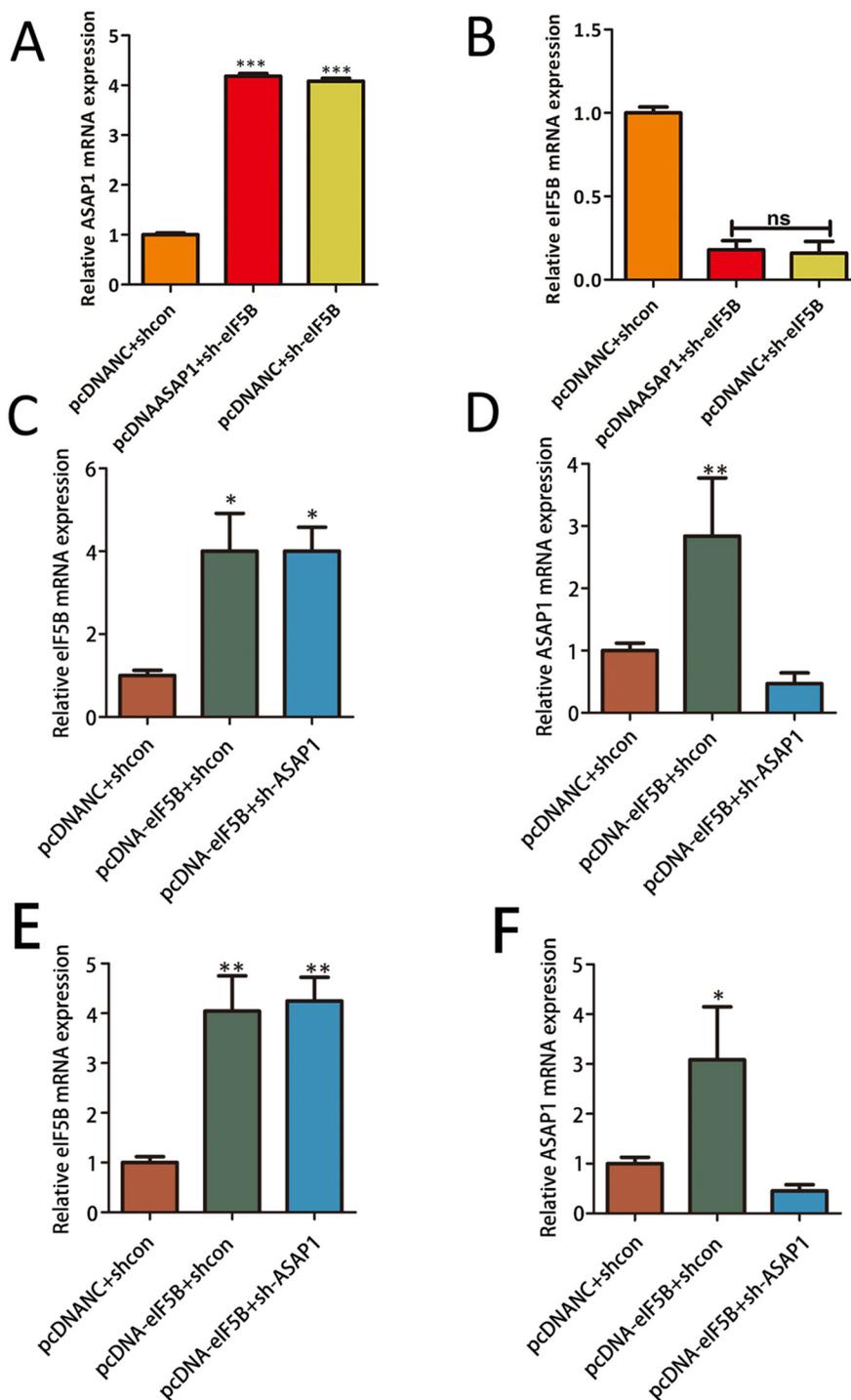
Supplementary Figure S1: eIF5B is stably knocked down in SMMC-7721 and HepG2 cells and overexpressed in LM3 and Huh7 cells. qRT-PCR and Western blotting were performed to assess the knockdown of eIF5B in SMMC-7721 cells **A** and **E**, and HepG2 cells **B** and **F**, and the overexpression of eIF5B in LM3 cells **C** and **G**, and Huh7 cells **D** and **H**. (*P<0.05; ***P<0.001).



Supplementary Figure S2: eIF5B induces metastasis and proliferation in vitro. A-B. Cell Counting Kit-8 (CCK8) cell proliferation assay. Parental cells transfected with empty vector were used as controls. A t-test was performed to evaluate statistically significant differences between the groups. C-D. The migratory properties of eIF5B overexpressing cells compared with control cells were analyzed by scratch wound healing assays. Representative results are shown. Magnification: 100x. E-F. Representative images showing colony formation by the different stable cell lines (left panels). The colony formation rate (%) was calculated by dividing the colony number by 200 plated cells (right panels). The data represent the means±SEM from three independent experiments (*P<0.05; **P<0.01; ***P<0.001).



Supplementary Figure S3: ASAP1 expression is positively associated with eIF5B expression in mice. **A.** KEGG pathway analysis of the genes with positive co-expression (correlation>0.3) with eIF5B. **B.** Relative ASAP1 mRNA levels in tumors from mice(*P<0.05). **C.** Immunohistochemistry of ASAP1 in tumors from (B).



Supplementary Figure S4: ASAP1 expression is positively associated with eIF5B expression in LM3 and Huh7 cells.

A. and **B.** The mRNA levels of ASAP1 and eIF5B in SMMC-7721 cells transfected with pcDNANC+shcon, pcDNAASAP1+sh-eIF5B, or pcDNANC+sh-eIF5B as detected by qRT-PCR. **C.** and **D.** The mRNA levels of eIF5B and ASAP1 in LM3 cells transfected with pcDNANC+shcon, pcDNAeIF5B+shcon, or pcDNAeIF5B+sh-ASAP1 as detected by qRT-PCR. **E.** and **F.** The mRNA levels of eIF5B and ASAP1 in Huh7 and SMMC-7721 cells transfected with pcDNANC+shcon, pcDNAeIF5B+shcon, or pcDNAeIF5B+sh-ASAP1 as detected by qRT-PCR (*P<0.05; **P<0.01; ***P<0.001).

Supplementary Table S1: Primer sequences for real-time PCR

See Supplementary File 1