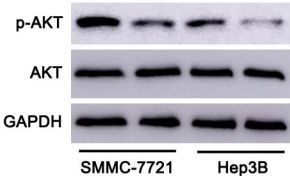


Control mimics	+	-	+	-
miR-376c-3p mimics	-	+	-	+



Supplementary Figure 1 miR-376c-3p promoted proliferation and mobility of Bel-7402 cells. (A) Bel-7402 cells that were transfected with miR-376c-3p mimics or control mimics were subjected to qRT-PCR for miR-376c-3p expression. n=three independent repeats, *P<0.05 by t test. (B) and (C) miR-376c-3p overexpression promoted proliferation of Bel-7402 cells as detected by CCK-8 and colony formation assay. n=three independent repeats, *P<0.05 by ANOVA or t test. (D) miR-376c-3p overexpression facilitated G1/S transition in Bel-7402 cells. n=three independent repeats, *P<0.05 by t test. (E) miR-376c-3p-overexpressing Bel-7402 cells were treated with mitomycin C (10 µg/ml), a proliferation blocker, for 2h to rule out the effect of cell proliferation in Transwell assay. The migration and invasion capacities were enhanced by miR-376c-3p overexpression in Bel-7402 cells. n=three independent repeats, *P<0.05 by t test.

Supplementary Figure 2 miR-376c-3p suppresses AKT phosphorylation in HCC cells. SMMC-7721 and Hep3B cells were transfected with control mimics or miR-376c-3p mimics. Western blotting indicated that miR-376c-3p knockdown reduced the level of p-AKT in HCC cells.

Supplementary Figure 3 ARID2 suppresses proliferation and mobility of Hep3B cells. (A) Hep3B cells that were transfected with ARID2 vector or empty vector (EV) were subjected to immunoblotting for ARID2 expression. n=three independent repeats, *P<0.05 by t test. (B) and (C) ARID2 overexpression inhibited proliferation of Hep3B cells as detected by CCK-8 and colony formation assay. n=three independent repeats, *P<0.05 by ANOVA or t test. (D) ARID2 silencing led to G1 arrest in Hep3B cells. n=three independent repeats, *P<0.05 by t test. (E) The migration and invasion capacities were weakened by ARID2 overexpression in Hep3B cells. n=three independent repeats, *P<0.05 by t test.

