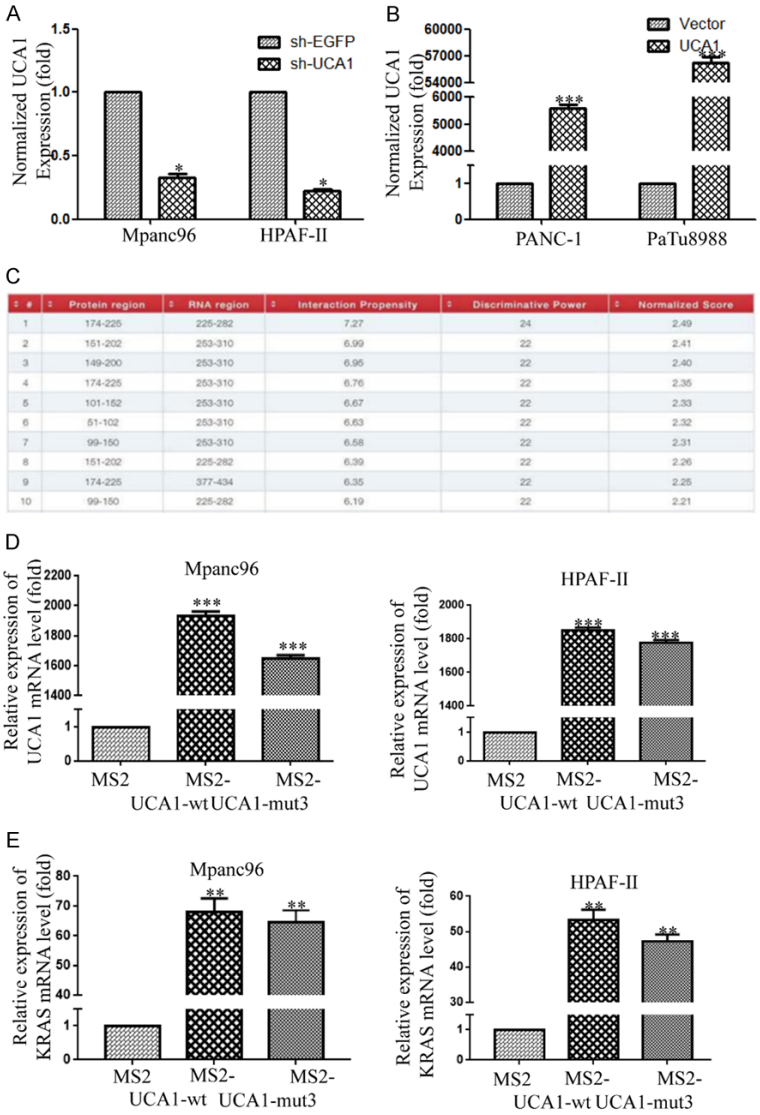

#	Protein region	RNA region	Interaction Propensity	Discriminative Power	Normalized Score
1	174-225	225-282	7.27	24	2.49
2	151-202	253-310	6.99	22	2.41
3	149-200	253-310	6.95	22	2.40
4	174-225	253-310	6.76	22	2.35
5	101-152	253-310	6.67	22	2.33
6	51-102	253-310	6.63	22	2.32
7	99-150	253-310	6.58	22	2.31
8	151-202	225-282	6.39	22	2.26
9	174-225	377-434	6.35	22	2.25
10	99-150	225-282	6.19	22	2.21

Figure S1. A, B. The UCA1 mRNA levels were reduced in Mpanc96 and HPAF-II cells transfected with sh-UCA1, whereas the UCA1 mRNA levels were increased after UCA1 overexpression in PaTu8988 and PANC-1 cells. C. Prediction of the RNA-protein interaction of UCA1 with hnRNPA2B1 using the catRAPID algorithm. D, E. The mRNA levels of UCA1 and KRAS were detected by qRT-PCR in Mpanc96 and HPAF-II cells after transfection with pSL-MS2-12X, UCA1-wt or UCA1-mut3 (Δ271-282, mutated hnRNPA2B1 binding site in UCA1), respectively. (*P<0.05, **P<0.01, ***P<0.001).

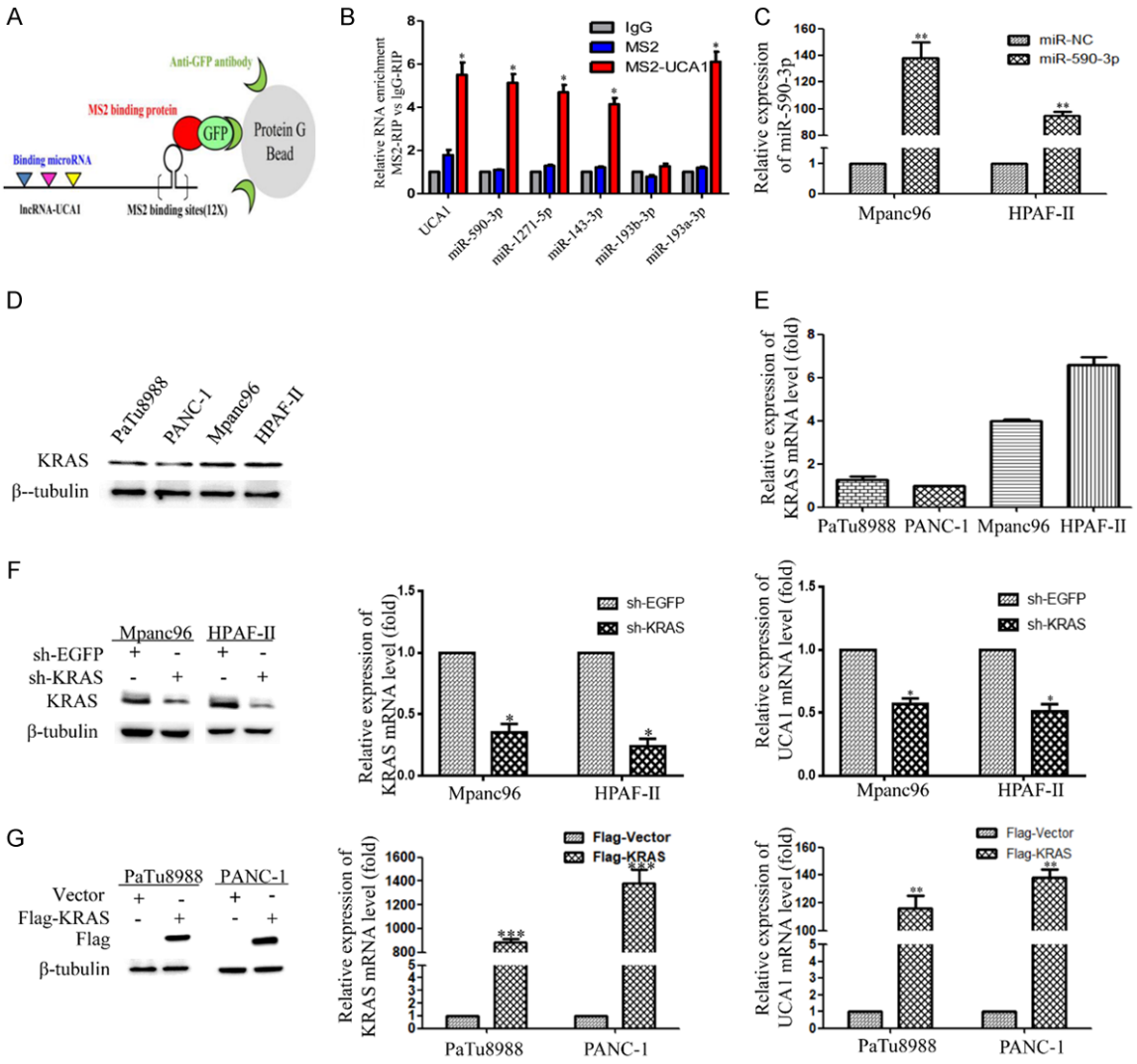

Figure S2. A. A schematic diagram of RNA immunoprecipitation (RIP) using MS2. B. Candidate miRNAs interacting with UCA1 were identified by the RIP assay. C. The expression of miR-590-3p in miR-590-3p-overexpressing cells was assessed by qRT-PCR. D, E. KRAS protein and mRNA expression levels were assessed in 4 PDAC cell lines by western blotting and qRT-PCR, respectively. F, G. The effect of KRAS on UCA1 expression was explored by qRT-PCR in Mpanc96/HPAF-II cells with KRAS knockdown and PaTu8988/Panc-1 cells overexpressing KRAS.

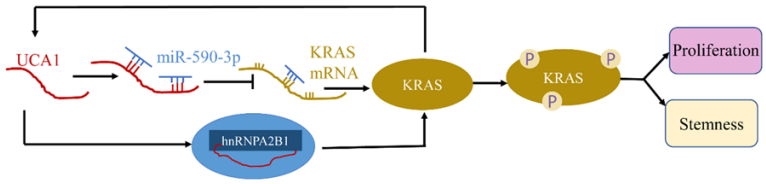

Figure S3. A schematic showing the results of this study. UCA1 is upregulated in PDAC. Moreover, UCA1 promotes the activity and expression of oncogenic KRAS, which, through interacting with hnRNPA2B1 and sponging miR-590-3p, is involved in the growth and progression of PDAC.