

Figure S1. Transfection efficiency. (A) Silencing of circRPS19 induced by specific siRNAs (si-circRPS19-1/2/3) was identified by RT-qPCR. (B) Overexpression of miR-125a-5p by miR-125a-5p mimics in two GC cell lines was determined by RT-qPCR. (C) Silencing of USP7 induced by siRNAs (si-USP7-1/2/3) was identified by RT-qPCR. (D) Overexpression of USP7 in two GC cell lines after transfection with pcDNA3.1-USP7 vector was determined by RT-qPCR. Empty pcDNA3.1 vector was used as NC. **P<0.01 vs. control group. circRPS19, circRNA ribosomal protein S19; si, small interfering; RT-q, reverse transcription-quantitative; miR, microRNA; GC, gastric cancer; USP7, ubiquitin-specific processing protease 7; NC, negative control.

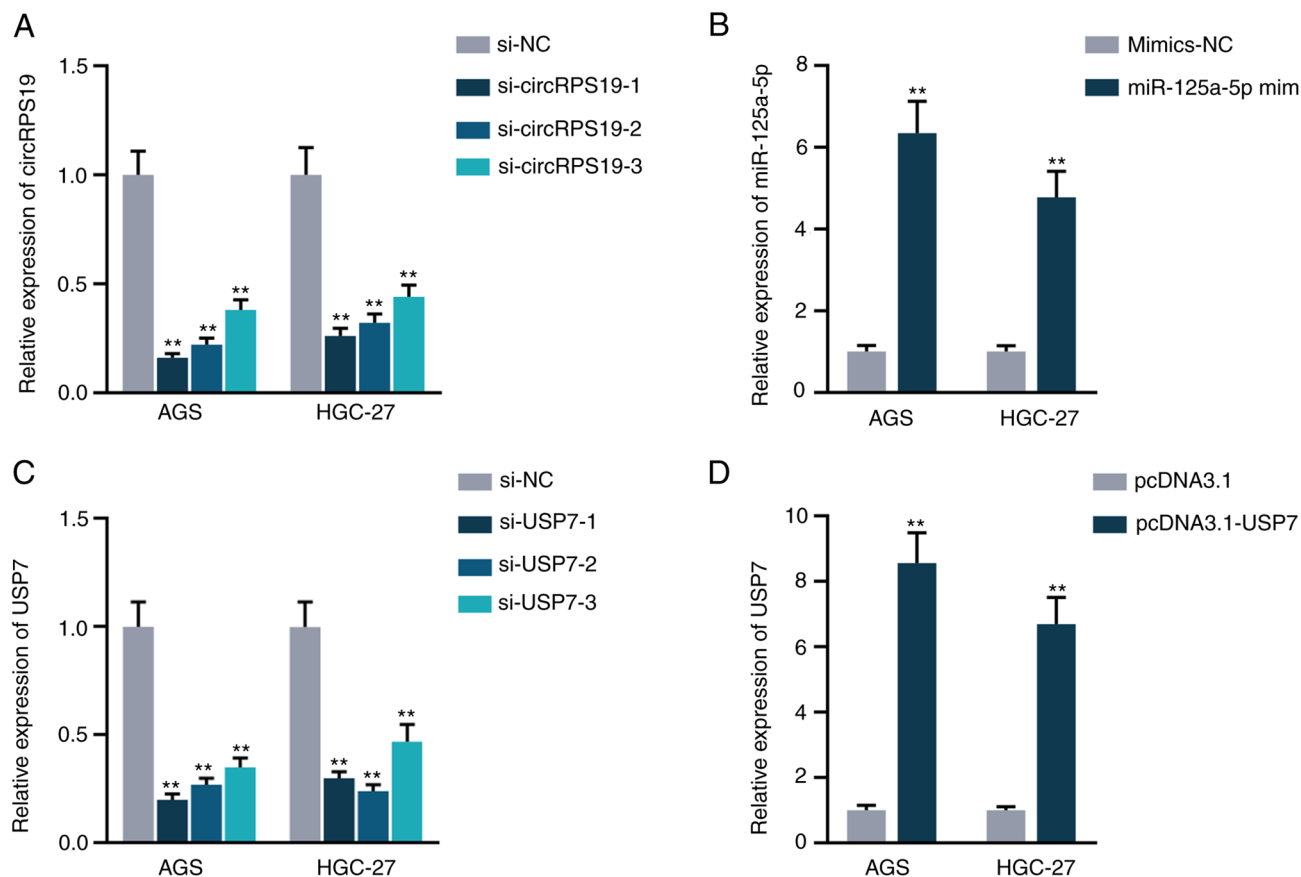


Figure S2. Screening of miRNAs that potentially interact with circRPS19 or USP7. miRNAs potentially interacting with (A) circRPS19 and (B) USP7 3'-UTR were screened using starBase. miRNA, microRNA; circRPS19, circRNA ribosomal protein S19; USP7, ubiquitin-specific processing protease 7; UTR, untranslated region.

A

Quick Search: mammal human hg19 miRNA: all CLIP-Data >= 1 Degradome-Data >= 0 target: hsa circ 0051246

The miRNA-circRNA Interactions Supported by Ago CLIP-seq Data

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miRNA	MatchGeneID	MatchGeneName	GeneType	TargetSite	Alignment	Class	AgoExpNum	CleaveExpNum
hsa-miR-223-3p	NM_001022	RPS19	circRNA	chr19:42373769-42373784[+]	Target: 5' -----oggoGCAAACTGACA 3' miRNA : 3' aaccacaaacCGUUUGACDUa 5'	8mer	22	11
hsa-miR-125a-5p	NM_001022	RPS19	circRNA	chr19:42373770-42373793[+]	Target: 5' ggcgcaaacagacacCCACAGGga 3' miRNA : 3' agggccaaawccccAGGCCCCu 5'	8mer	22	13
hsa-miR-125b-5p	NM_001022	RPS19	circRNA	chr19:42373772-42373793[+]	Target: 5' ccGCAAACTGACACTCAGGga 3' miRNA : 3' agggGUAAGUg-GAGDCCCtg 5'	8mer	22	13
hsa-miR-670-5p	NM_001022	RPS19	circRNA	chr19:42373774-42373794[+]	Target: 5' gcaaaCTGACACCTCAGGgaC 3' miRNA : 3' gaggGUAAGUg-GAGDCCCtg 5'	7mer-m8	22	17
hsa-miR-4319	NM_001022	RPS19	circRNA	chr19:42373777-42373793[+]	Target: 5' aacgacacCCACAGGga 3' miRNA : 3' aaccacaaacAGGCCCCu 5'	8mer	22	13

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B

Quick Search: mammal human hg19 miRNA: all CLIP-Data >= 5 Degradome-Data >= 0 pan-Cancer >= 5 programNum >= 1 program: None target: USP7

The miRNA-mRNA Interactions Supported by Ago CLIP-seq Data

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miRNA	GeneName	PITA	RNA22	miRmap	microT	miRanda	PicTar	TargetScan	AgoExpNum	CleaveExpNum	Pan-Cancer
hsa-miR-664b-3p	USP7	0[0,0]	0[0,0]	1[8,0]	3[10,0]	0[0,0]	1[8,0]	0[0,0]	10	0	5
hsa-miR-503-5p	USP7	0[0,0]	0[0,0]	0[0,0]	1[8,0]	0[0,0]	0[0,0]	0[0,0]	8	0	7
hsa-miR-15a-5p	USP7	0[0,0]	0[0,0]	0[0,0]	1[8,0]	0[0,0]	0[0,0]	0[0,0]	8	0	9
hsa-miR-195-5p	USP7	0[0,0]	0[0,0]	0[0,0]	1[8,0]	0[0,0]	0[0,0]	0[0,0]	8	0	7
hsa-miR-382-3p	USP7	0[0,0]	0[0,0]	0[0,0]	1[7,0]	0[0,0]	0[0,0]	0[0,0]	7	0	6
hsa-miR-524-5p	USP7	1[5,0]	0[0,0]	0[0,0]	1[7,0]	0[0,0]	0[0,0]	0[0,0]	7	0	5
hsa-miR-34a-5p	USP7	1[6,0]	0[0,0]	0[0,0]	0[0,0]	1[7,0]	0[0,0]	0[0,0]	7	0	10
hsa-miR-34c-5p	USP7	1[6,0]	0[0,0]	0[0,0]	0[0,0]	1[7,0]	0[0,0]	0[0,0]	7	0	7
hsa-miR-495-3p	USP7	1[6,0]	0[0,0]	0[0,0]	0[0,0]	0[0,0]	0[0,0]	0[0,0]	6	0	5
hsa-miR-125b-5p	USP7	0[0,0]	0[0,0]	0[0,0]	1[6,0]	0[0,0]	0[0,0]	0[0,0]	6	0	7

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