

Fig.S1

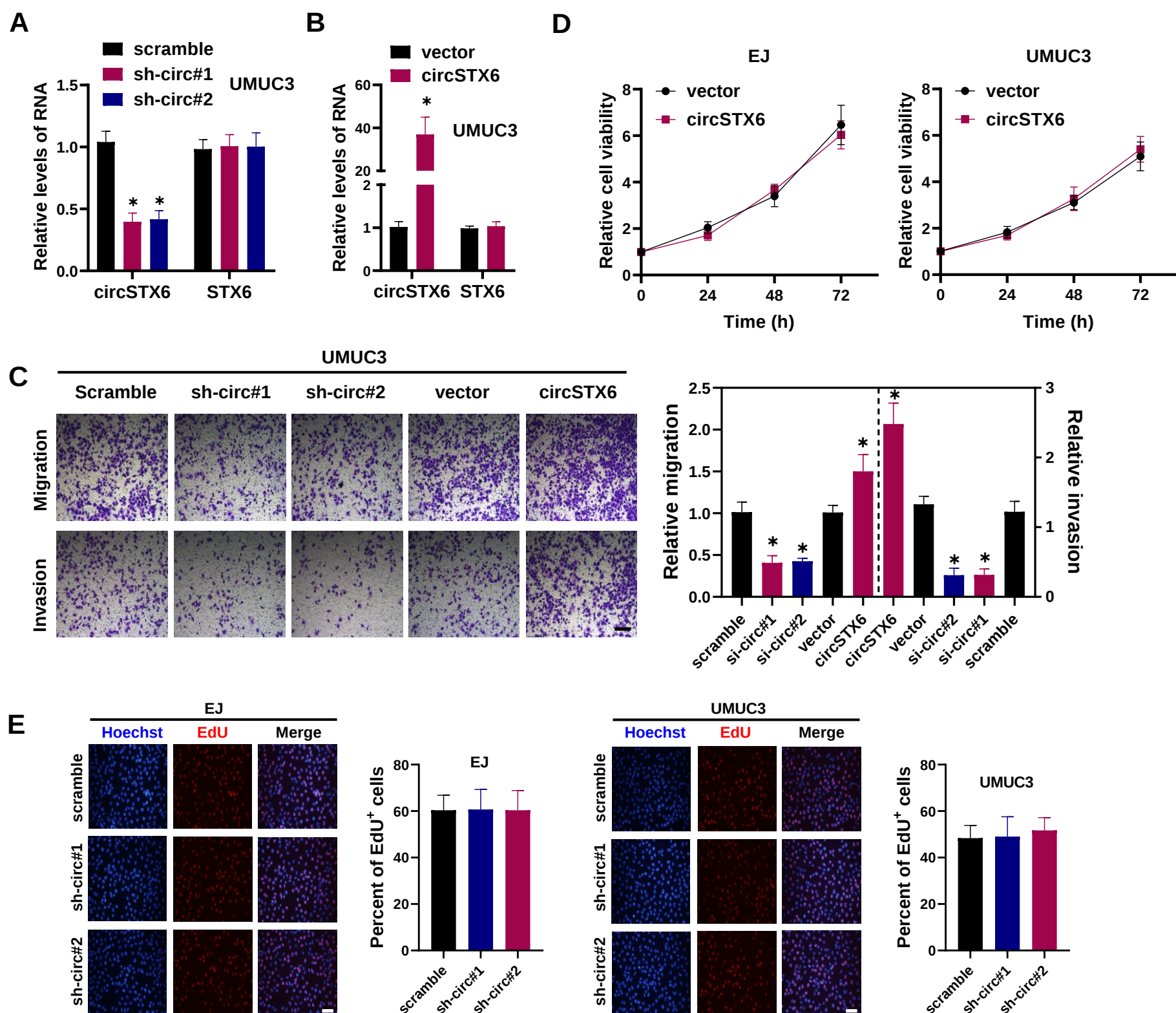
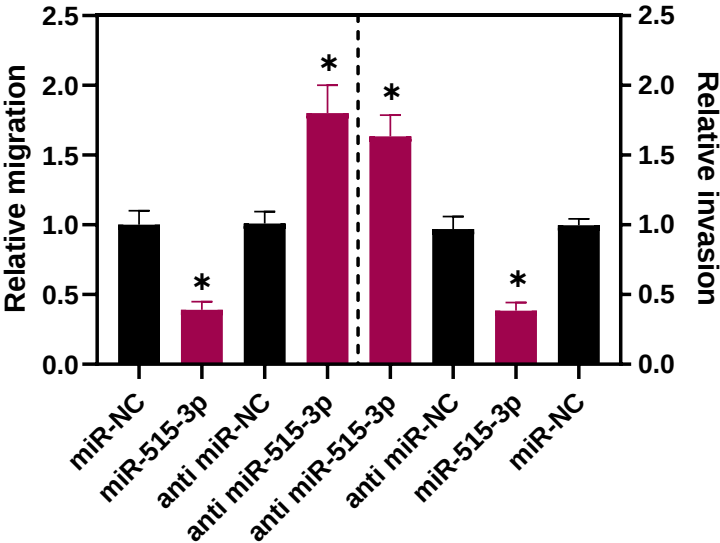
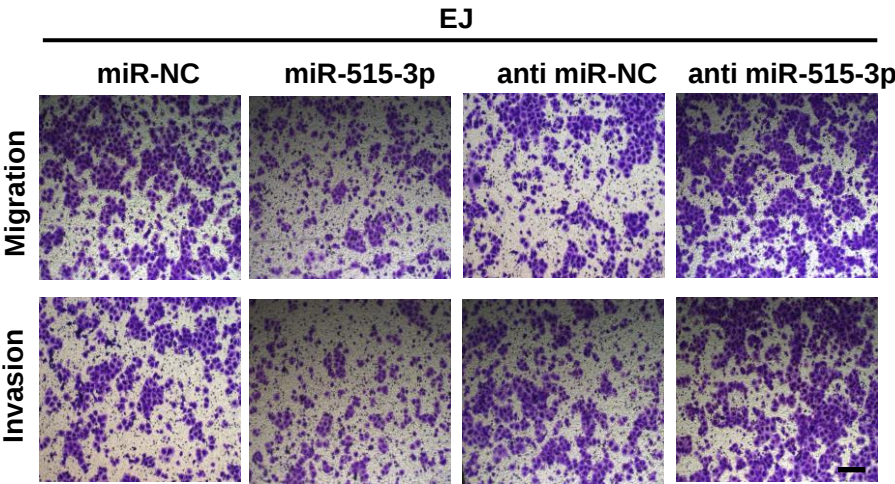


Figure S1. *CircSTX6* promotes the metastasis in BCa. (A) The knockdown and efficiency of *circSTX6* in UMUC3 cells was detected by qRT-PCR. (B) The overexpression efficiency of *circSTX6* in UMUC3 cells was detected by qRT-PCR. (C) Representative and quantified results of the Transwell migration and invasion assays in UMUC3 cells transfected with scramble, sh-circ#1, sh-circ#2, vector or *circSTX6*. Scale bar, 100 μ m. (D) CCK-8 assays showed the viability of BCa cells stably transfected with vector or *circSTX6*. (E) Edu assays depicted the proliferation rate of BCa cells stably transfected with scramble, sh-circ#1 or sh-circ#2. Scale bar, 200 μ m. The data are presented as the means $\pm$ S.D. of at least three independent experiments. * $P < 0.05$. P values are calculated by Student's t test in B and C and one-way ANOVA in A and C.

Fig.S2

A



B

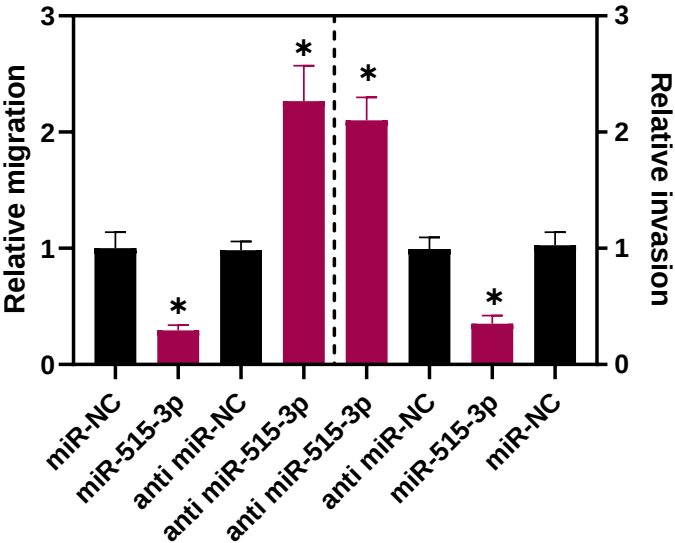
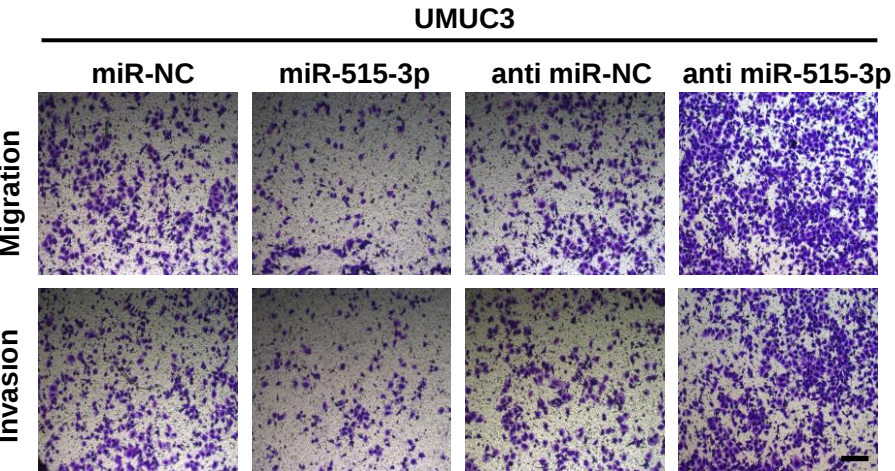


Figure S2. MiR-515-3p inhibits BCa migration and invasion *in vitro*. (A and B) The influence on cell migration and invasion abilities of EJ (A) and UMUC3 (B) cells transfected with miR-NC, miR-515-3p, anti-miR-NC or anti miR-515-3p. Scale bar, 100 μ m. The data are presented as the means $\pm$ S.D. of at least three independent experiments. * $P < 0.05$. P values are calculated by Student's t test in A and B.

Fig.S3

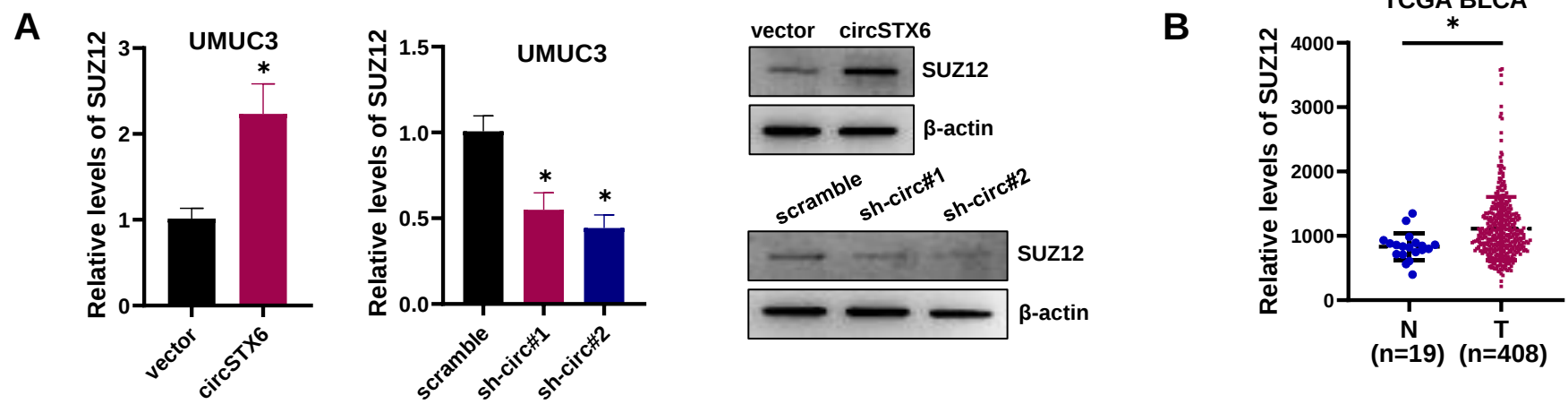


Figure S3. CircSTX6 enhances the SUZ12 expression in BCa. (A) The mRNA and protein level of SUZ12 in UMUC3 cells stably transfected vector, circSTX6, scramble, sh-circ#1 or sh-circ#2. (B) The expression level of *SUZ12* in the TCGA BLCA dataset. The data are presented as the means $\pm$ S.D. of at least three independent experiments. * $P < 0.05$. P values are calculated by Student's t test in A (left) and one-way ANOVA in A (right).

Fig.S4

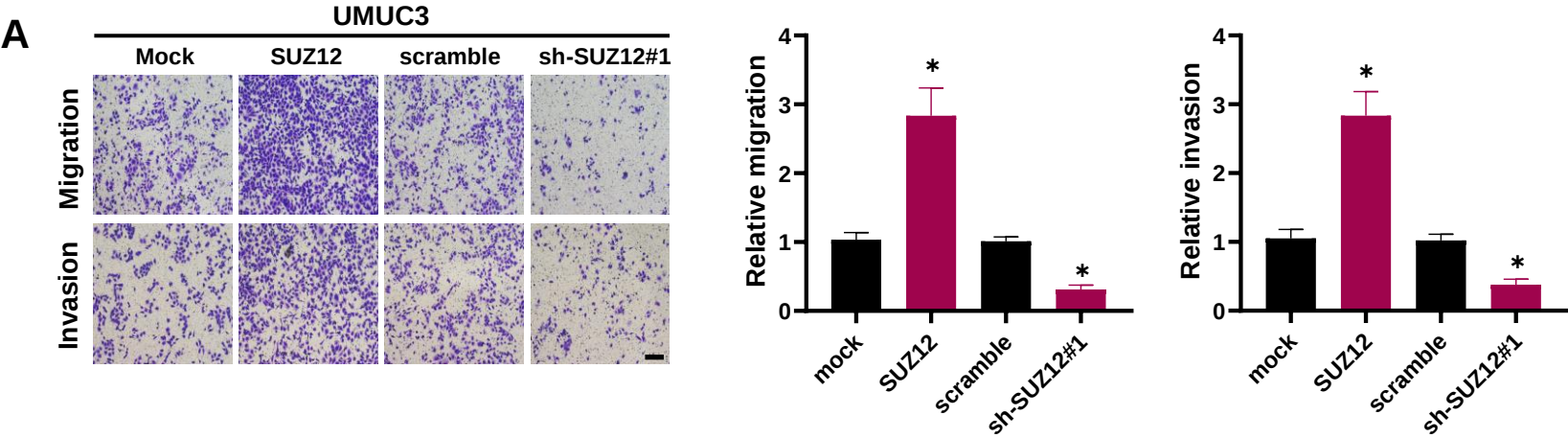


Figure S4. Knockdown of SUZ12 inhibits BCa migration and invasion. (A) Transwell assays showed the migration and invasion of UMUC3 cells transfected with mock, SUZ12, scramble or sh-SUZ12#1. Scale bar, 100 μ m. The data are presented as the means $\pm$ S.D. of at least three independent experiments. * $P < 0.05$. P values are calculated by Student's t test in A.

Fig.S5

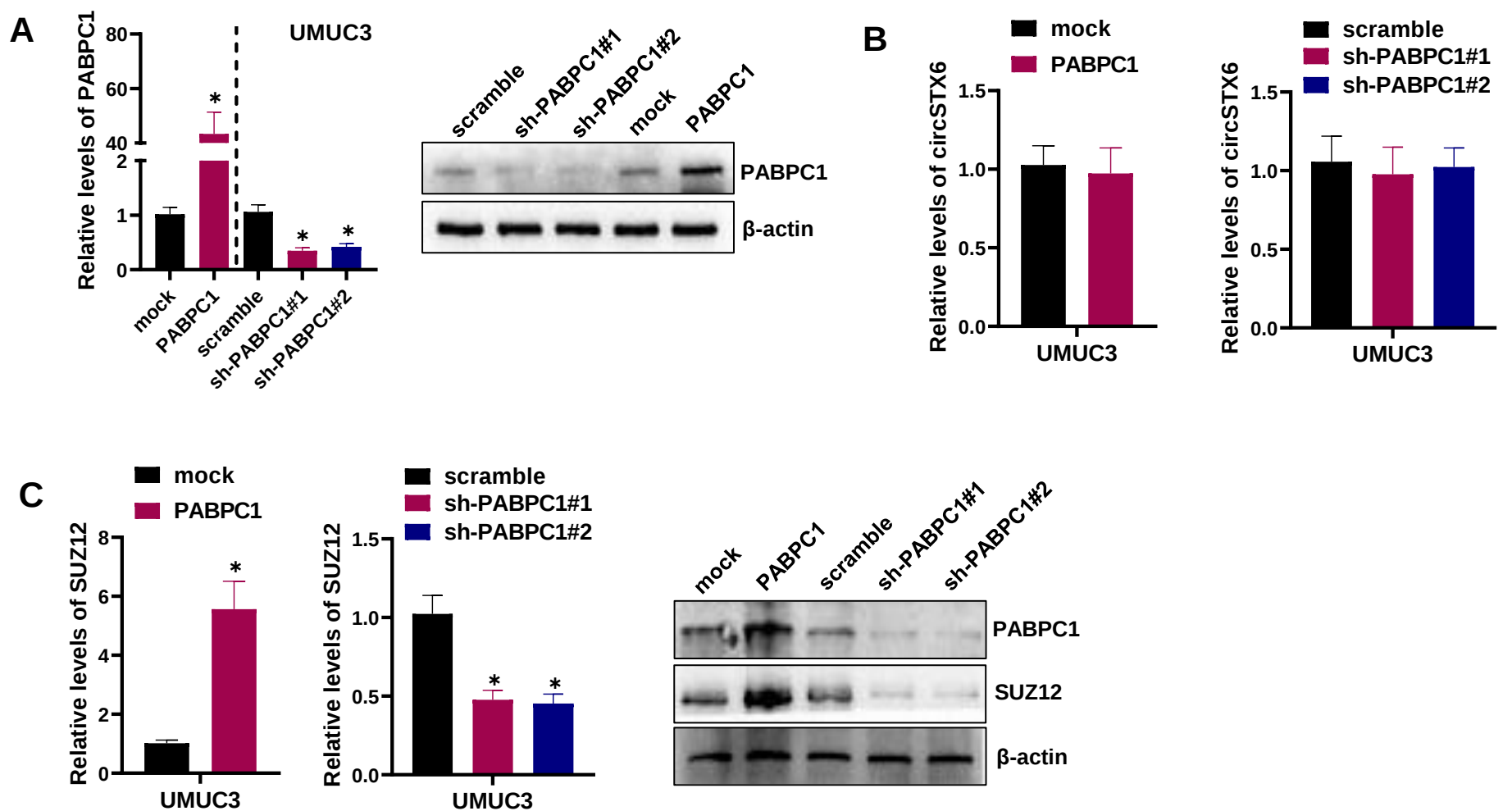


Figure S5. PABPC1 could facilitate the expression level of SUZ12 in UMUC3 cells. (A) The efficiency of PABPC1 knockdown or overexpression in UMUC3 cells was verified by qRT-PCR (left) and western blot (right). (B) qRT-PCR assay showed the expression of *circSTX6* in UMUC3 cells transfected with the indicated plasmids. (C) qRT-PCR and western blot assays showed the expression of SUZ12 in UMUC3 cells transfected with the indicated plasmids. The data are presented as the means $\pm$ S.D. of at least three independent experiments. $*P < 0.05$. P values are calculated by Student's t test in A and C and one-way ANOVA in A and C.

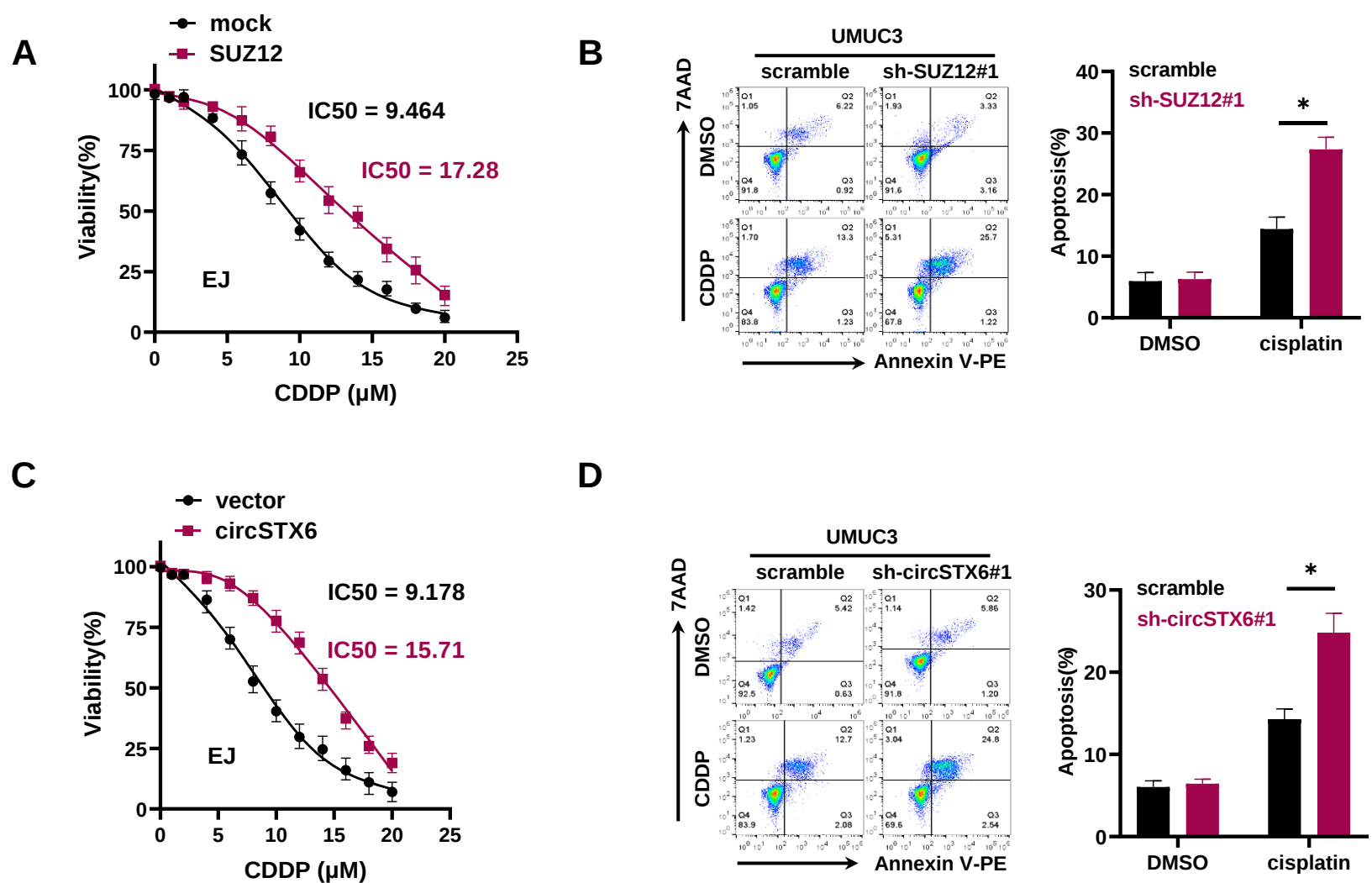
Fig.S6

Figure S6. Silencing of SUZ12 and circSTX6 promotes the chemosensitivity of BCa cells to CDDP. (A) Determination of IC₅₀ values for CDDP treatment 24 h in EJ cells which were stably transfected with mock or SUZ12 vector. (B) Flow cytometry apoptosis assays were used to assess apoptosis rate of UMUC3 cells stably transfected with sh-SUZ12#1 after 5 μM CDDP treatment. (C) Determination of IC₅₀ values for CDDP treatment 24 h in EJ cells which were stably transfected with vector or circSTX6 plasmid. (D) Flow cytometry apoptosis assays were used to assess apoptosis rate of UMUC3 cells stably transfected with sh-circSTX6 after 5 μM CDDP treatment. The data are presented as the means ± S.D. of at least three independent experiments. **P* < 0.05. *P* values are calculated by Student's *t* test in B and D.