

### **Additional file**

Additional file 1: Table S1. List of primers used in this study

Additional file 2: sFig. 1 Methylation status of ZNF662 in BRCA. (A) Correlation between ZNF662 methylation status and ZNF662 mRNA expression in BRCA from cBioPortal database. (B) Part of the cluster of methylated CpG sites of ZNF662 in BRCA from MethSurv database. Red: hyper-methylation. (C) The prognostic values of methylation-associated CpG sites cg04146745, cg26523005 and cg18356403 in BRCA from MethSurv database.

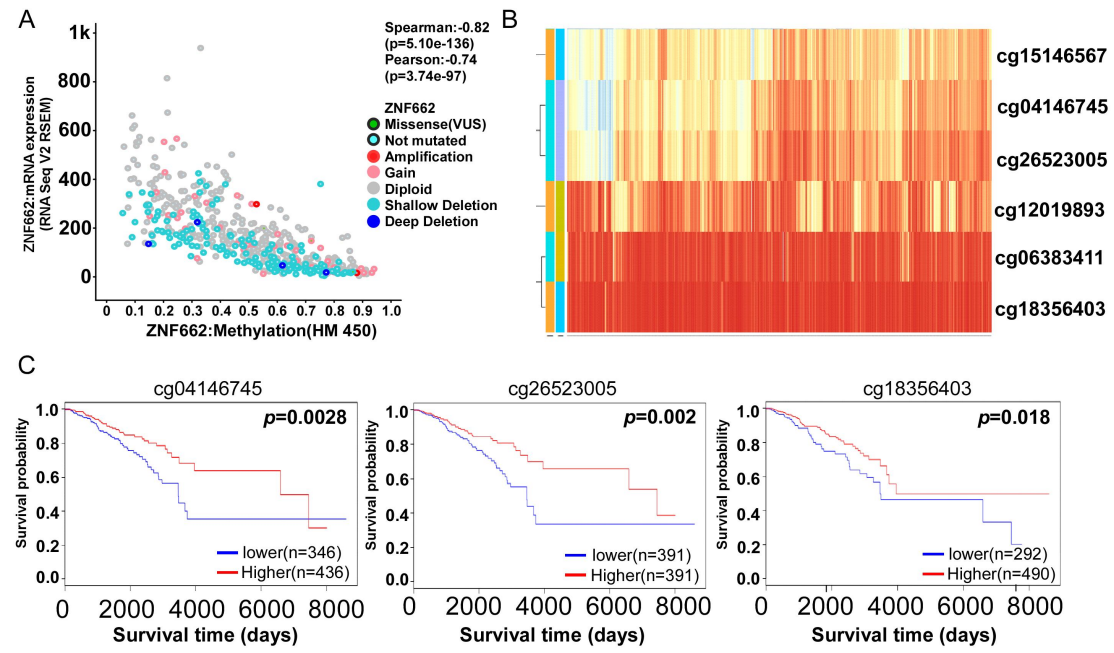
sFig. 2 Aza treatment could impair malignant biological phenotypes of TNBC cells. (A) CCK-8 assay revealed the effects of Aza treatment on the proliferation of TNBC cells. (B-C) Transwell assays revealed the effects of Aza treatment on the migration of TNBC cells. (D-E) Transwell assays revealed the effects of Aza treatment on the invasion of TNBC cells.

sFig. 3 Knockdown of ZNF662 regulates the PI3K/AKT pathway in MB468 cells. (A+B) Validation of ZNF662 knockdown efficiency by qRT-PCR and Western blot. (C) Colony formation assay in siNC- and siZNF662-transfected MB468 cells. (D) Cell cycle distribution of siNC- and siZNF662-transfected MB468 cells. (E) After ZNF662 knockdown in MB468 cells, expression of downstream protein levels was examined by Western blot. All data are shown as mean  $\pm$  SD from three independent experiments. SD, standard deviation. \*\*\*p < 0.001.

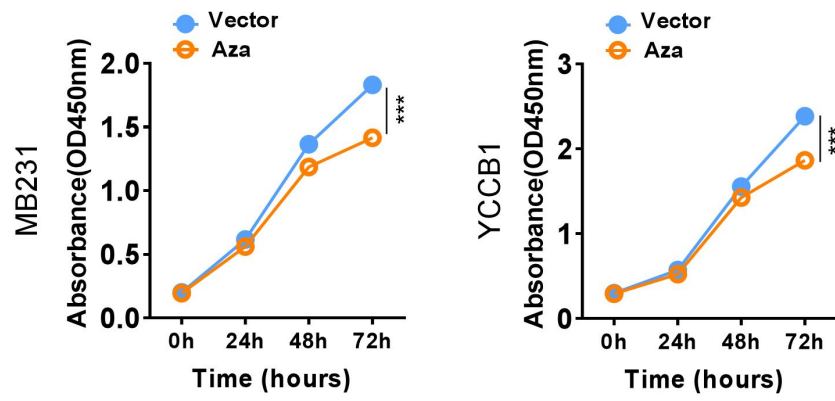
Table. S1

Primer		Sequence (5'-3')	Product Size
RT-PCR/ qRT-PCR	ZNF662-F	GACCTCATGGTCCTATCAAGTG	181bp
	ZNF662-R	CTACTGAGATCATCTCATCCTTG	
	NGF-F	CACACTCAGAGAGCAATGTCC	132bp
	NGF-R	CCACGCGTGCAGCTATCGC	
	$\beta$ -actin-F1	GTCTTCCCCTCCATCGTG	113bp
	$\beta$ -actin-R1	AGGGTGAGGATGCCTCTCTT	
Chip-PCR	NGFproF1	TTGTCAGAGGAGCTTGGGCAC	199bp
	NGFproR1	TTGCTCGCAGCTTCCCTCAC	
	ZNF662-m1	GTGGAGTCGGGGTTTTATTTC	131bp
MSP	ZNF662-m2	CCTCTAAAAAACGAAAACGCG	
	ZNF662-u1	GAGTGGAGTTGGGGTTTTATTTT	136bp
	ZNF662-u2	TCCCTCTAAAAAACAAAAACACA	

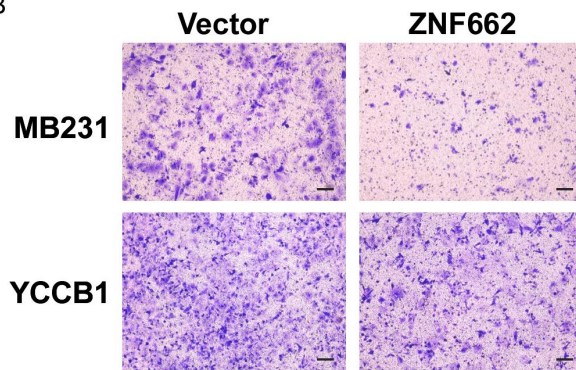
sFig.1



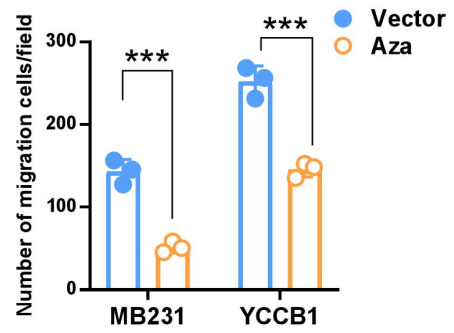
sFig.2  
A



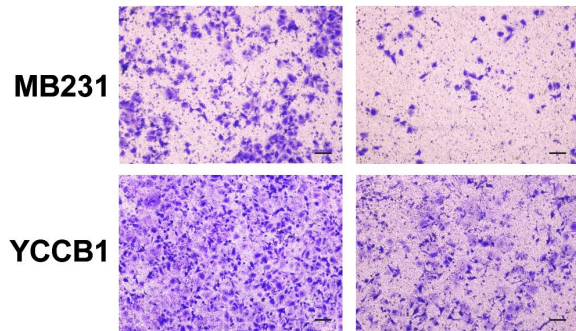
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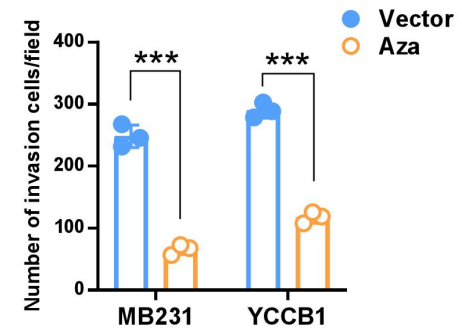
C



D

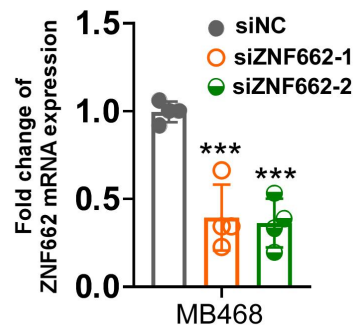


E

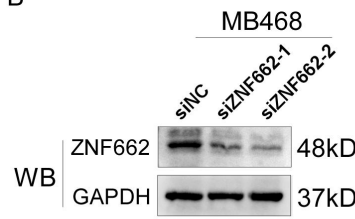


sFig. 3

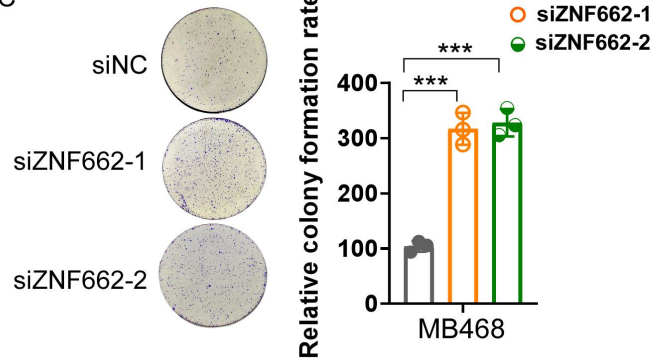
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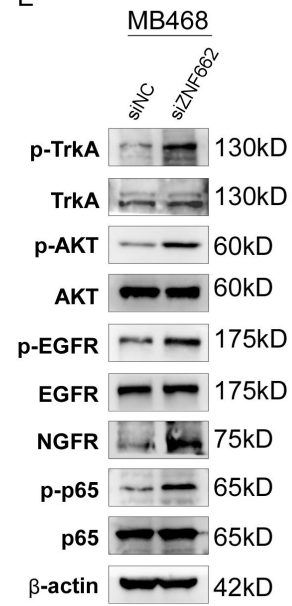
B



C



E



D

