Supplementary information, Fig. S7



Supplementary information, Fig. S7 The LINE-1 inhibitor EFV reverses the effects of ZNF689 deficiency on LINE-1 retrotransposition.

a Western blot assessment of yH2AX levels in LM2 and Hs578T cells with shNC and shZNF689. b Distribution of CIN scores across TNBC tumors stratified by ZNF689 expression in the FUSCC cohort. c Distribution of aneuploidy scores expression. **d** Quantification TNBC tumors by ZNF689 across of retrotransposition events (EGFP-positive cells) in shNC and shZNF689 Hs578T cells treated with EFV (20 µM). e RT-qPCR evaluation of relative LINE-1 (5'-UTR for LM2 and Hs578T; ORF2 for 4T1 and AT3) genomic DNA content in TNBC cells following EFV (20 µM) treatments. f Western blotting analysis of yH2AX in LM2 and Hs578T cells treated with EFV (20 µM). g Representative IF images and guantification of yH2AX foci in LM2 and Hs578T cells treated with 20 µM EFV for 24 h. Scale bar, 10 µm. h Apoptotic rate determination using flow cytometry and Annexin V-Alexa Fluor 647/PI staining in LM2 and Hs578T cells after 24 h of exposure to 20 µM EFV. i Cell viability measurements via CCK8 assays in LM2 and Hs578T cells after 24 h of treatment with 20 µM EFV. j Tumor growth of LM2 cells expressing shNC or shZNF689 in NOD/SCID mice treated with EFV (n = 6 mice/group). P values were determined using the Wilcoxon tests (b, c), one-way ANOVA (d, e), two-tailed unpaired Student's t tests (**g**-**i**) and two-way ANOVA (**j**). ns, not significant; $*^{*}p < 0.01$, $**^{*}p < 0.001$.