**Figure S1:** *OTUB2* expression was upregulated in TNBC. (A, B) Comparative expression of *OTUB2* between pan-cancers and corresponding normal tissues in the UALCAN and TIMER2.0 database; (C, D) *OTUB2* expression between breast cancer and normal tissue (\**p* ＜ 0.05, \*\**p* ＜ 0.01, \*\*\**p* ＜ 0.001).

**Figure S2:** **Protein quantification analysis** (A) Quantification of Flag-TRAF6 expression levels, normalized to Tubulin. (B-E) Quantification of OTUB2, TRAF6, p-AKT protein expression levels (ns: *p* > 0.05, \**p* ＜ 0.05, \*\**p* ＜ 0.01, \*\*\**p* ＜ 0.001).