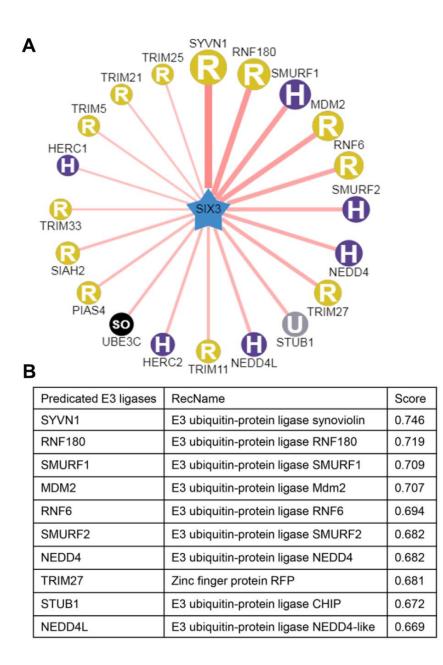
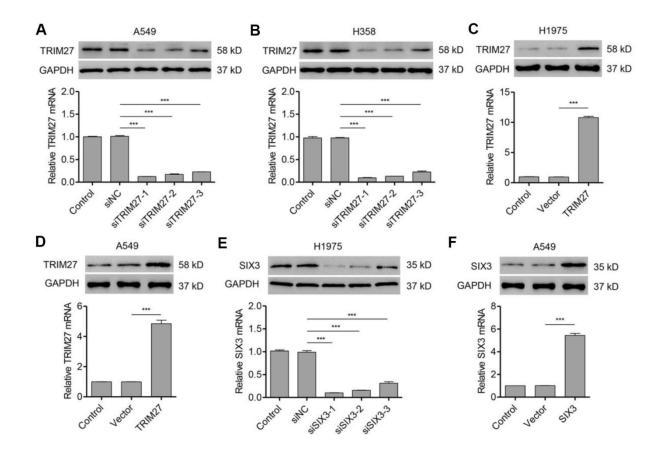
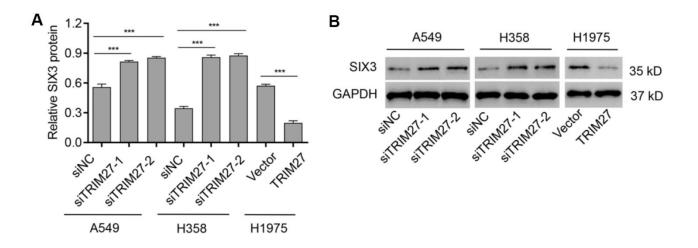
SUPPLEMENTARY FIGURES



Supplementary Figure 1. SIX3 is bioinformatically predicted to be a substrate interacted with human E3 ubiquitin ligases. (A) Top 20 predicated human E3 ubiquitin ligases interact with SIX3. (B) Middle confidence interaction ($0.001 \le P < 0.01$) between SIX3 and human E3 ubiquitin ligases.



Supplementary Figure 2. TRIM27 and SIX3 expression in NSCLC cell lines. (**A**, **B**) A549 and H358 cells were transfected with siTRIM27-1, siTRIM27-2, siTRIM27-3, or siNC, and the expression of TRIM27 was measured by western blotting. (**C**, **D**) H1975 and A549 cells transfected with blank pLVX-Puro vector or pLVX-Puro-TRIM27, and the expression of TRIM27 was measured by western blotting. (**E**, **F**) H1975 cells were transfected with siSIX3-1, siSIX3-2, siSIX3-3, or siNC while A549 cells were transfected with blank pLVX-Puro vector or pLVX-Puro-SIX3, and the expression of SIX3 was measured by western blotting. All experiments were repeated at least three times, and data are represented as mean ± SD. ***P < 0.001 (one-way ANOVA followed by Dunnett's test).



Supplementary Figure 3. SIX3 expression in NSCLC cell lines under TRIM27 knockdown or overexpression. (A, B) H358 and A549 cells were transfected with siTRIM27-1, siTRIM27-2, or siNC while H1975 cells were infected with pLVX-Puro-TRIM27 or blank pLVX-Puro vector, and the SIX3 expression levels were determined by western blotting. All experiments were repeated at least three times, and data are represented as mean ± SD. ***P < 0.001 (one-way ANOVA followed by Dunnett's test).