

**File Name: Supplementary Data 1. The results of correlation analysis of POLD1 and differential expression analysis of RNA-seq.**

Description: The data details the following contents: (1) Pearson correlation coefficients and p values of the top 100 TCGA-BLCA database genes significantly positively correlated with POLD1. (2) The results of RNA-seq differential expression gene analysis after POLD1 knockdown in 5637 cells.

**File Name: Supplementary Data 2. IP-MS identifies POLD1 interacting proteins.**

Description: The data details the following contents: (1) Results of mass spectrometry of immunoprecipitate product after IP-IgG in Flag-POLD1 overexpression 293T cells. (2) Results of mass spectrometry of immunoprecipitate product after IP-Flag in Flag-POLD1 overexpression 293T cells. 3. Results of proteins detected only in IP-Flag product.