Figure. S1 Α В siControl DAPI USP36 Merge Relative mRNA expression siUSP36#1 siControl siUSP36#2 Integrated Density/Area siUSP36 20siControl P=0.0075 0.3-**USP36** protein level С Case1 Case2 Case3 Case4 Case5 Case6 Case7 Case8 0.2-USP36 150kDa 42kDa ACTB 0.1 Tumor ornal nor Nomor Tumor D Ε F Top 20 KEGG Pathway Enriched By Differential Expression Genes Top 20 GO-BP Terms Enriched By Differential Expression Genes vesicle-mediated transport Transcriptional misregulation in cancer ubiquitin-dependent protein catabolic process TNF signaling pathway regulation of transcription from RNA polymerase II promoter one signaling pathway regulation of cell proliferation Regulation of actin cytoskeleton regulation of cell mgration Proteoglycans in cancer egulation of apoptotic process Prostate cancer -log10(adj.p.Val) protein ubiquitination Platelet activation protein phosphorylation Oocyte meiosis by small protein removal NF-kappa B signaling pathway protein deubiquitination ophin signaling pathway e-mediated ubiquitin-dependent protein catabolic process MicroRNAs in cancer log<sub>10</sub> (P.value MAPKK signaling pathway scription from RNA polymerase II promoter 2.25 2.00 1.75 Human T-cell leukemia virus 1 infectior positive regulation of apoptotic process -2 0 log2(FoldChange) Human cytomegalovirus infection Hippo signaling pathway negative regulation of transcription, DNA-templated negative regulation of transcription from RNA polymerase II promoter Cushing syndrome negative regulation of cellular process Cellular senescence negative regulation of cell proliferation AGE-RAGE signaling pathway i 1.75 2.0 Odds Ratio 2.00 2.0 Odds Ratio G TCGA-ESCA TCGA-ESCA TCGA-ESCA expression of ECT2 The expression of DAB2 ٩ 4 expression of CCN2 The expression of CCN1 The expression of ASAP1 expression of GLS 4 5 The expression of USP36 The expression of USP36 The expression of USP36 The expression of USP36 The expression of USP36

TCGA-ESCA

The expression of USP36

expression of ETV5