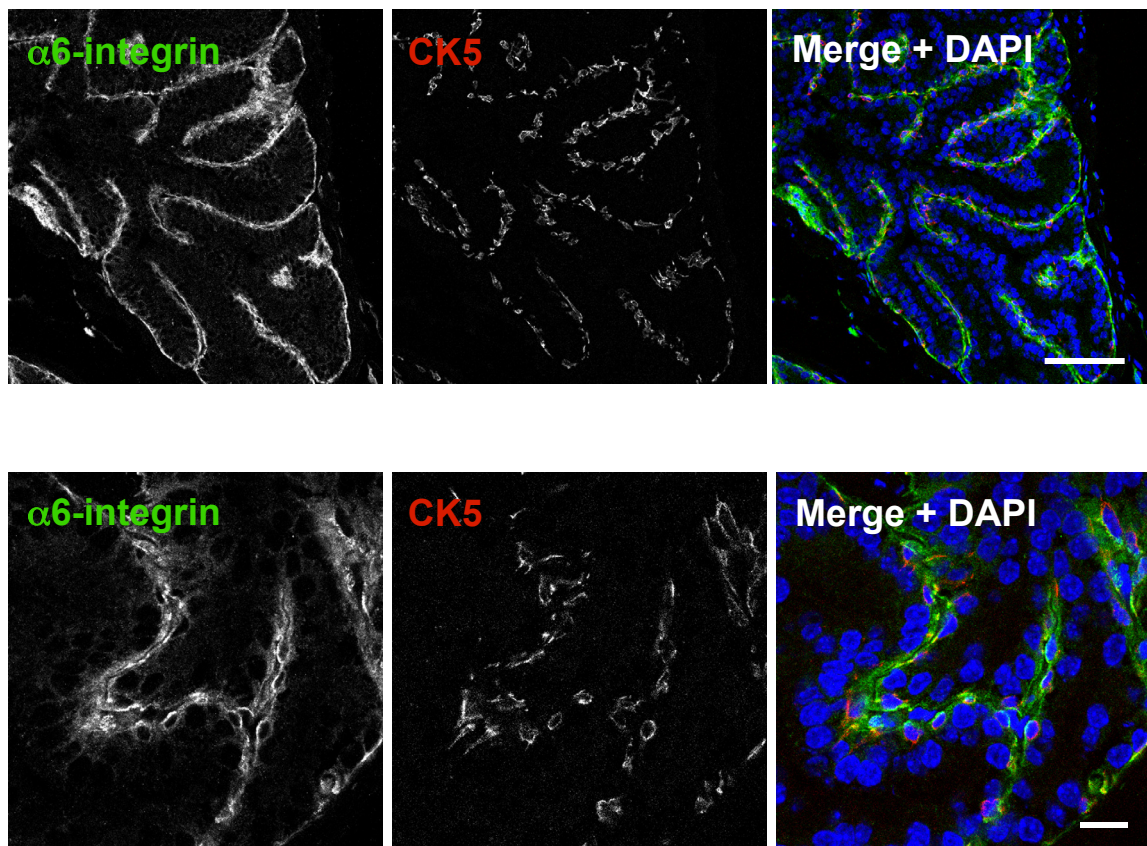


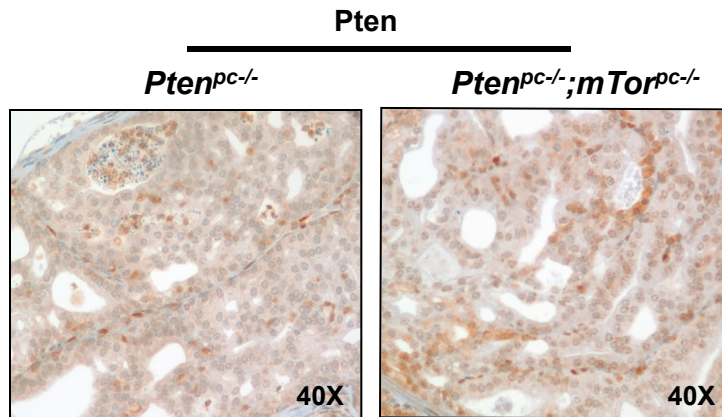
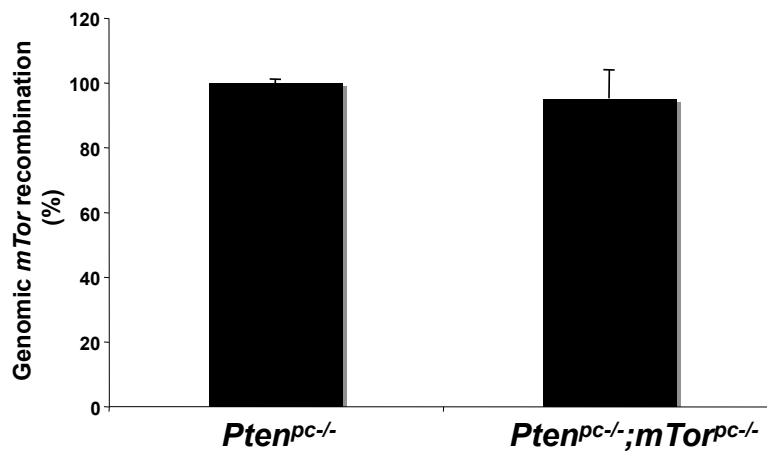
Supplementary Materials and Methods

Immunofluorescence of frozen sections. Paraformaldehyde-fixed frozen tissue sections from mouse prostate were allowed to dry for 20 minutes at room temperature. Sections were blocked with 10% goat serum plus 2% bovine serum albumin (BSA) for 1 hour then washed in PBS and treated using the avidin/biotin blocking kit (Vector labs) according to manufacturers instructions. Sections were then incubated with the following primary antibodies in 2% BSA overnight at 40 degrees: biotin conjugated anti-CD49f clone GoH3 (Biolegend) and anti-cytokeratin 5 rabbit polyclonal (Covance Research). After extensive washing, primary antibodies were detected using Streptavidin Alexa488 and anti-rabbit Alexa546 respectively (Invitrogen). Sections were washed again before mounting in Vectashield including DAPI (Vector labs). Slides were analyzed on a confocal microscope (Zeiss).

p27^{Kip1} immunofluorescence analysis in MEFs. Cells were fixed in PFA 4% for 15 minutes and permeabilized in Triton X100 0.1%. p27^{Kip1} mouse monoclonal antibody (upstate, 1:200) was used.



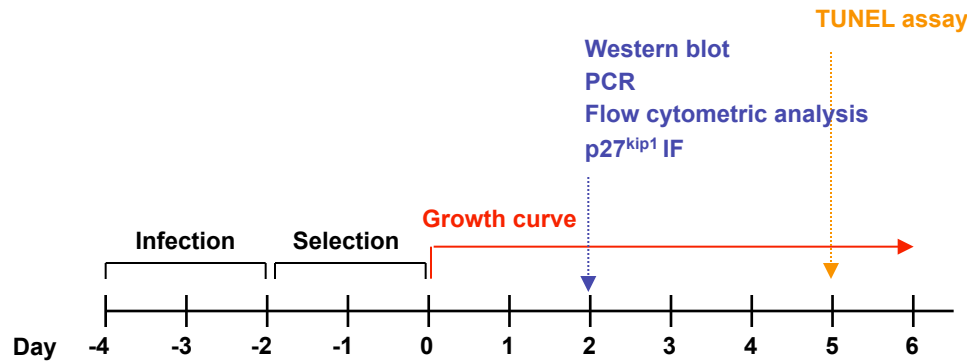
Supplementary Figure 1. $\alpha 6$ -integrin is predominantly expressed by cytokeratin 5 (CK5)-positive basal prostatic epithelial cells. Immunofluorescence images of WT AP sections co-stained for $\alpha 6$ -integrin and CK5. DAPI nuclear counterstain is shown in blue. Scale bars are 100 μ m (top panels, lower magnification) and 20 μ m (lower panels, higher magnification).

A**B**

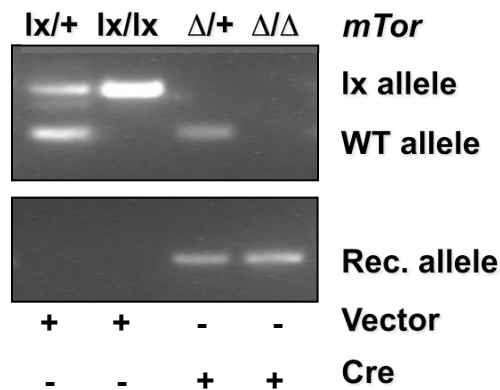
Supplementary Figure 2. Residual PIN-affected glands in *Pten^{pc-/-};mTor^{pc-/-}* mice arise from *Pten*-recombined cells that have escaped *mTor* recombination.

(A) IHC staining of PIN lesions in the prostate of *Pten^{pc-/-}* and *Pten^{pc-/-};mTor^{pc-/-}* mice with an antibody directed against Pten. (B) *mTor* genomic quantitative real-time PCR on DNA extracted from laser capture micro-dissected epithelial cells of PIN glands from cryo-sections of *Pten^{pc-/-}* and *Pten^{pc-/-};mTor^{pc-/-}* mice prostates.

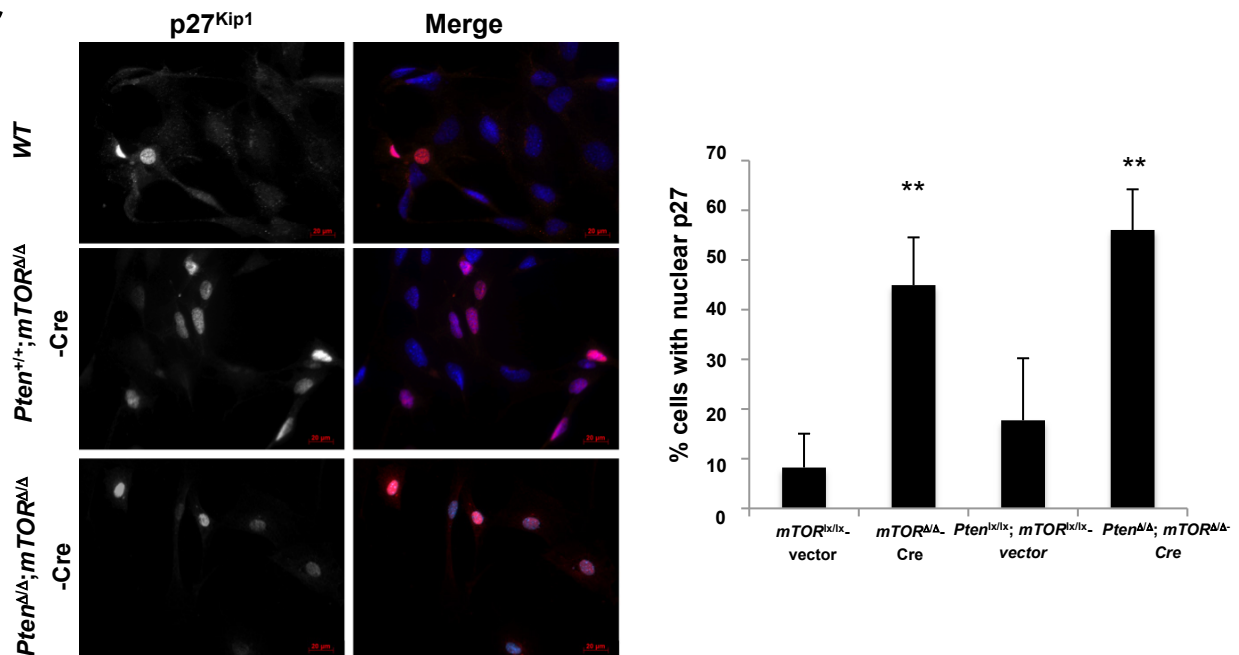
A



B



C



Supplementary Figure 3. Deletion of *mTor* in MEFs.

(A) Experimental timeline of infection and analysis of MEFs. (B) Identification of WT, *mTor*^{loxP}, and *mTor*^Δ alleles by PCR in *mTor*^{loxP/loxP} and *mTor*^{loxP/+} MEFs infected with PURO-IRES-GFP (vector) or Cre-PURO-IRES-GFP (Cre). (C) Left panel: p27 localization in the indicated MEFs by immunofluorescence analysis (IF) (see experimental timeline shown in 3A). Right panel: quantification of the percentage of cells with p27 nuclear localization. **, p<0.01.