

Supplementary Figures

Figure S1

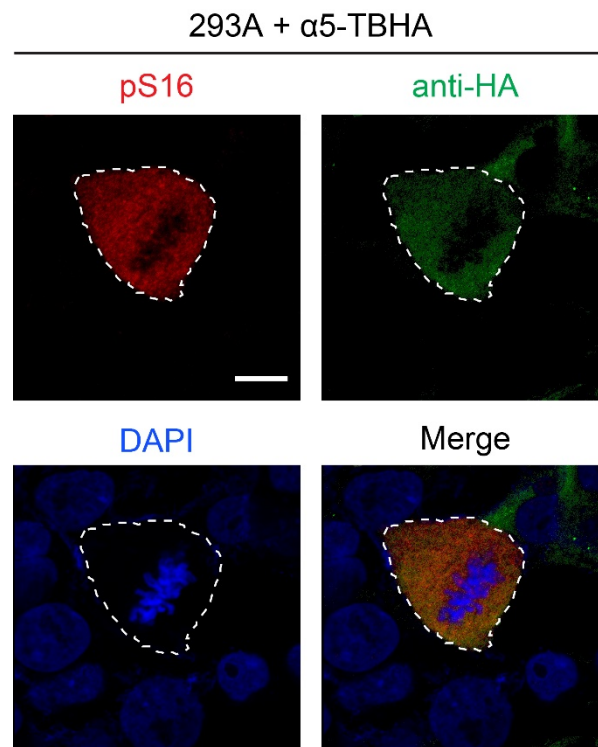


Figure S1: Immunofluorescence staining of $\alpha 5$ -pS16. Asynchronous 293A cells transfected with $\alpha 5$ -TBHA were immunostained with anti-pS16 and anti-HA antibodies and imaged with a confocal microscope. Scale bar = 10 μ m. The contour of the only mitotic cell in this eye-field is outlined. Note that a neighboring interphase cell transfected with $\alpha 5$ -TBHA was negative for pS16.

Figure S2

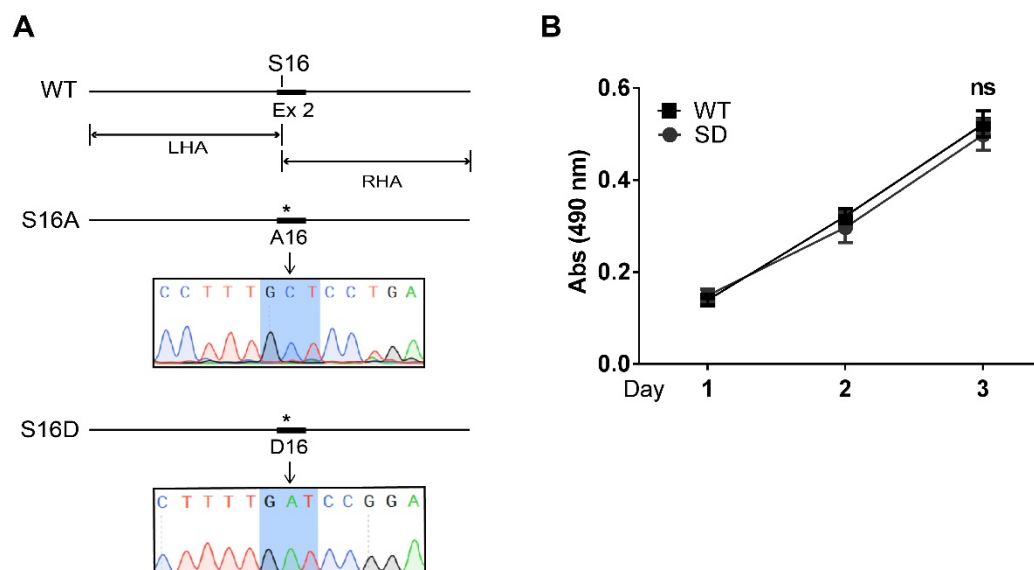


Figure S2: CRISPR/Cas9-mediated knock-in of $\alpha 5$ -S16 mutations. **(A)** Gene editing strategy for knock-in. Thick black bar represents exon 2 (Ex 2) of the PSMA5 gene where Ser16 is located. LHA and RHA stand for left/right homology arm in the repair donor template. Allele-specific sequencing results of the mutated sites are shown. **(B)** MTS assay was performed on WT and S16D (heterozygous) cells as in Fig. 3E.

Figure S3

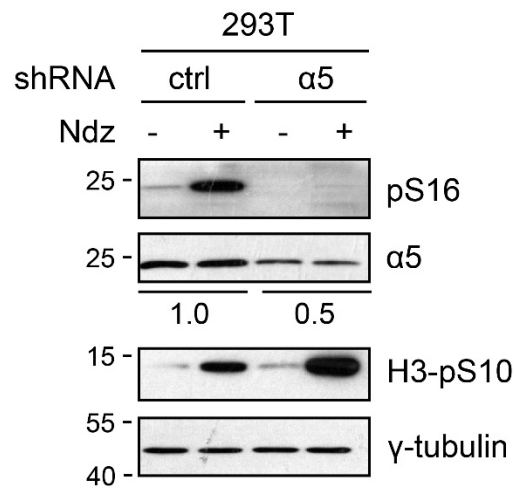


Figure S3: 293T cells were infected with lentiviruses expressing a control or $\alpha 5$ -targeting shRNA. Partial knockdown of endogenous $\alpha 5$ was confirmed by western blot. Cells were treated with Ndz and pS16 was analyzed.