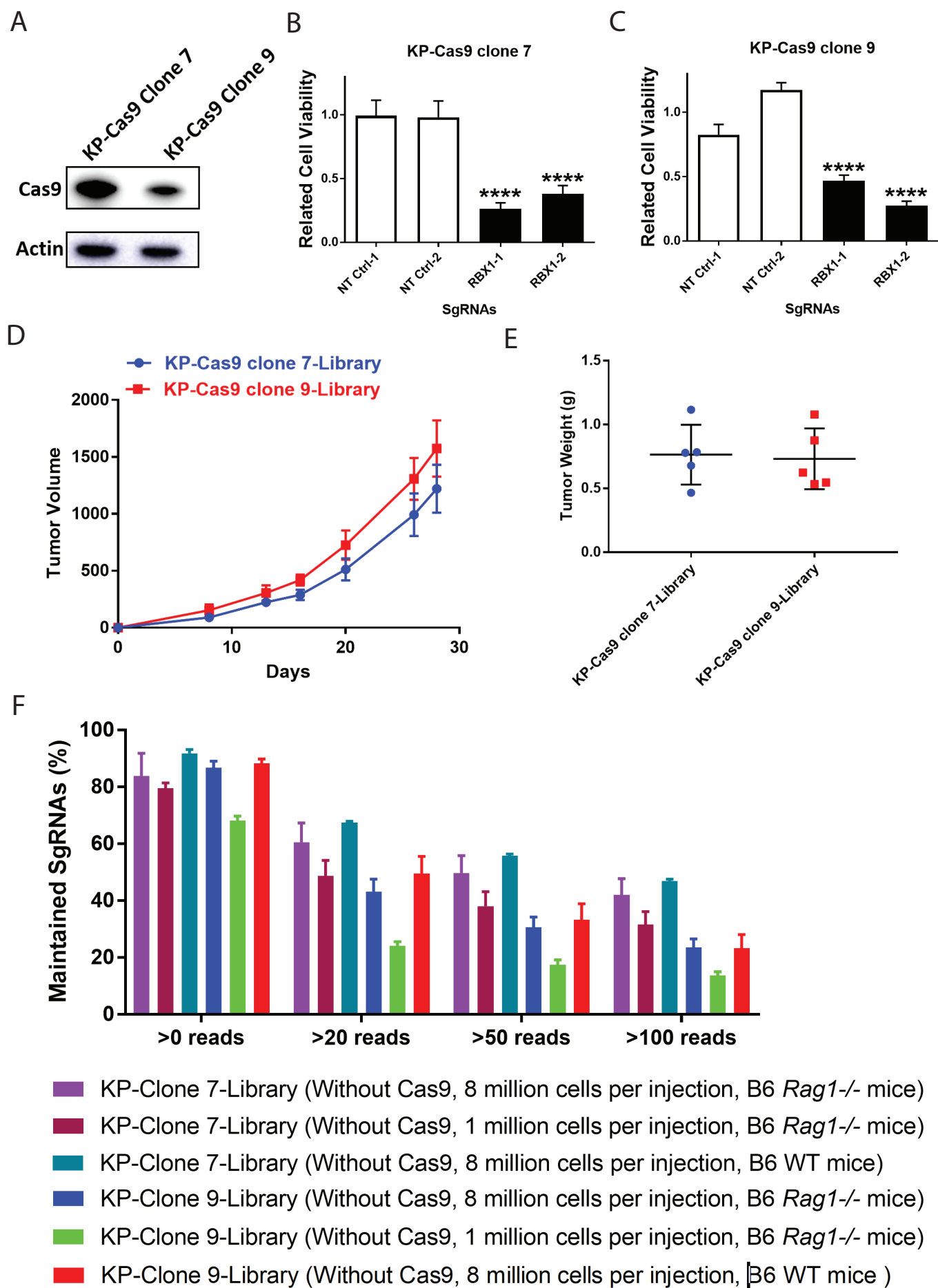


Supplementary Fig. 2



**Supplementary Figure 2. Quality controls performed to validate the *in vivo* screening platform.** **A**, Western blot demonstrating Cas9 expression in KP-Cas9-clone 7 and KP-Cas9-clone 9. Mouse  $\beta$ -actin was used as the internal control. **B, C**, Cell viability of KP-Cas9-clone 7 (**B**) and KP-Cas9-clone 9 (**C**) transfected with sgRNAs targeting the essential gene *Rbx1*. **D, E**, Tumor growth curve (**D**) and tumor weight (**E**) of sgRNA library transduced KP-Cas9-clone 7 & 9 subcutaneously injected into B6 WT mice. **F**, Percentage of maintained sgRNAs in mice injected with KP-clone 7 library (without Cas9) and KP-clone 9 library (without Cas9) cells. All data are shown as mean  $\pm$  SEM. \*\*\*\* $p < 0.0001$