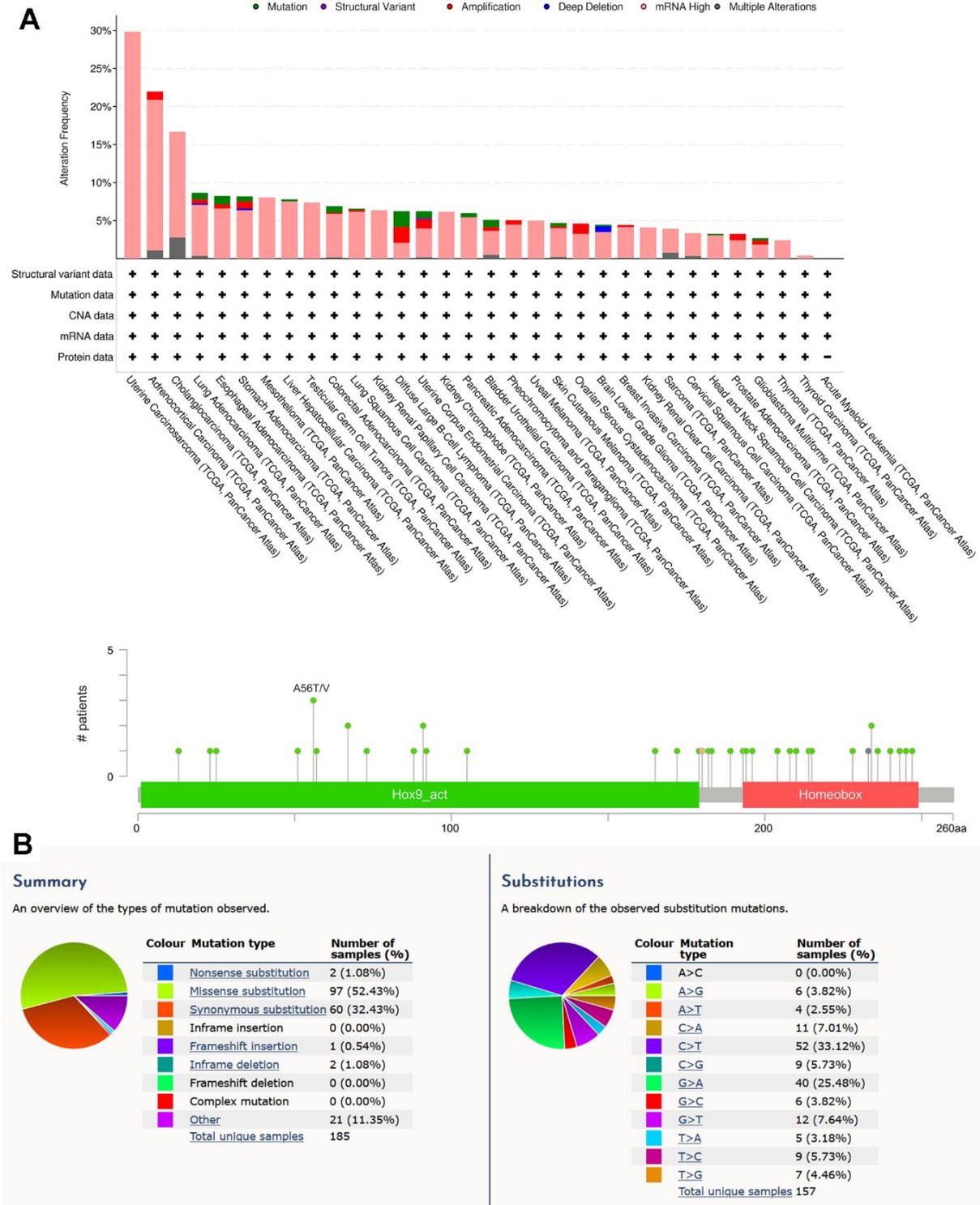
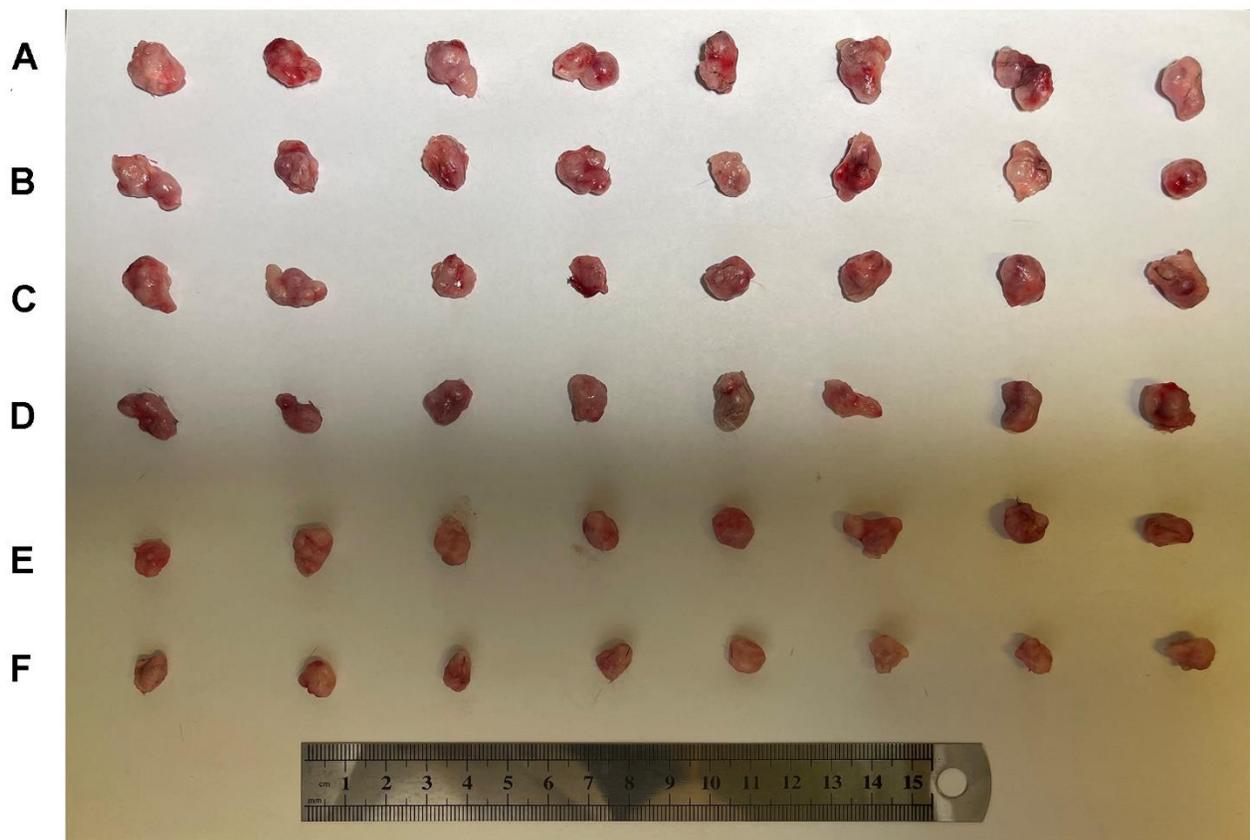


SUPPLEMENTARY FIGURES



**Supplementary Figure 1. HOXC9 genetic alteration and promoter methylation analysis. (A)** HOXC9 alteration in pan-cancers. **(B)** Types of HOXC9 mutation in pan-cancers. Types and substitution of HOXC9 mutation in pan-cancers.



**Supplementary Figure 2. Tumor model photograph.** (A) Control+IgG group. (B) Control+anti-PD1 group. (C) Over expression of Hoxc9+IgG group. (D) Over expression of Hoxc9+anti-PD1 group. (E) Knockdown of Hoxc9+IgG group. (F) Knockdown of Hoxc9+ anti-PD1 group.