



**S2 Fig.** (A) Bar plot showing the relative fraction of gene mutation based on the anatomic location. P-value was calculated using the chi-square test. (B) Lollipop plot presenting the single nucleotide variation pattern in the top 3 mutated genes including *TP53*, *ARID1A*, and *KRAS*. Each point containing a line indicates the specific location of a single nucleotide variation at the genomic locus.