

Figure S1 Differential gene expression in transcriptomics level and proteomics level. (A) Transcriptomics differential gene expression volcano plot. (B) PCA analysis of valid proteins. (C) The heat map of valid proteins. (D) Differential protein expression volcano plot.

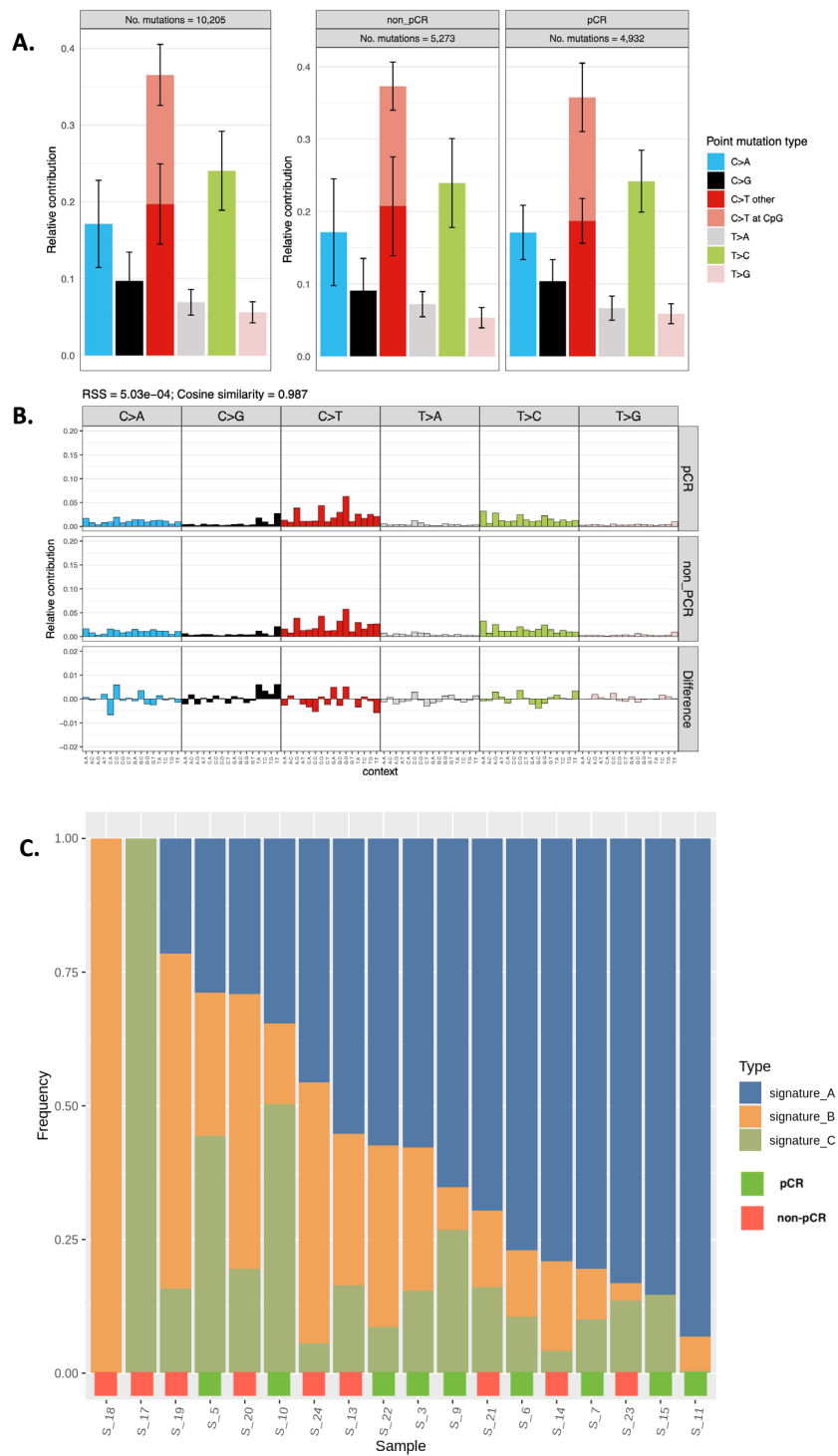


Figure S2 Analysis of mutational signatures in the cohort. (A,B) Nucleotide mutation signatures. (C) COSMIC mutation signatures. Near reference of signature A is SBS9, near reference of signature B and C is SBS25.

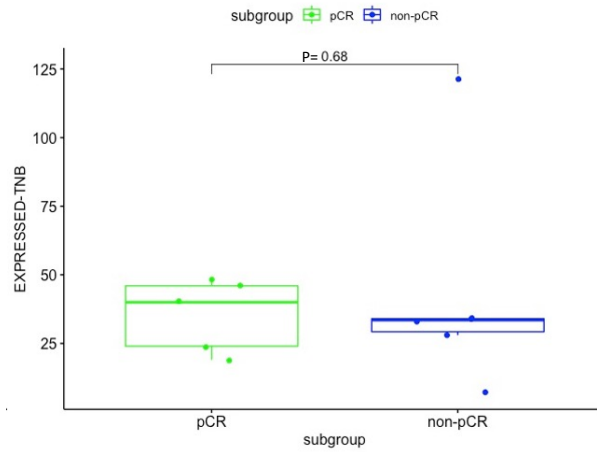
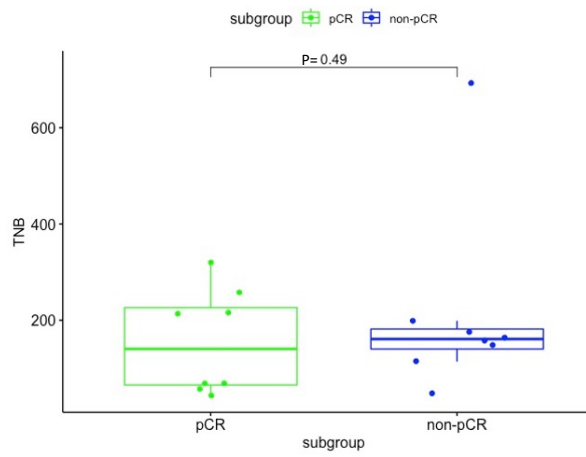


Figure S3 Neoantigen load.

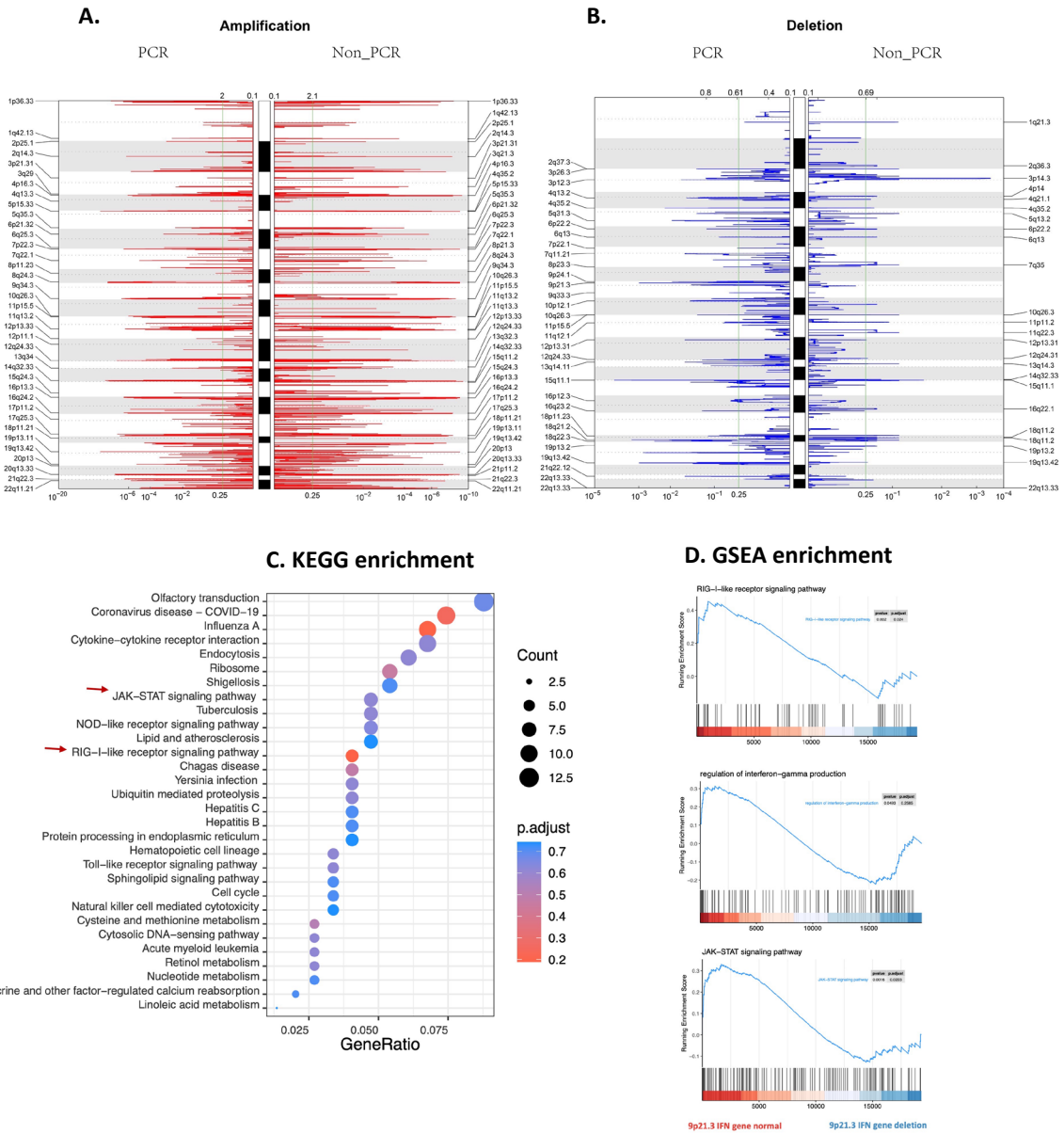


Figure S4 Copy number variations by GISTIC analysis. (A) The left plot displays copy number amplifications. (B) The right plot displays copy number deletions. The numbers on the top of the plot represent G-scores (the scores for amplitude and frequency of alteration). The numbers at the bottom of the plot represent the q-value. (C,D) Differential gene enrichment and GSEA analysis between patients with and without IFN cluster-containing 9p21.3 deletion in the cBioPortal ESCC cohort.

SAMHD1 positive sample

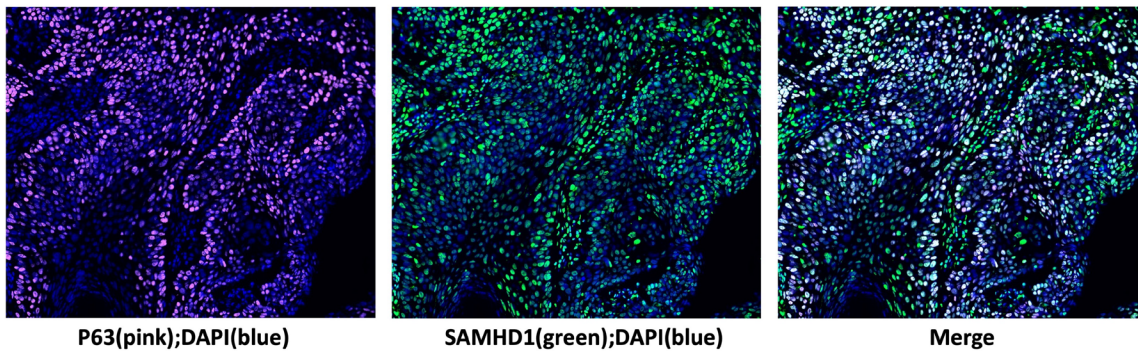


Figure S5 The immunofluorescence staining of the biomarker and tumor cells (p63).