



**S9 Fig.** (A) Kaplan-Meier plot of disease-free survival (DFS) analysis by post-op circulating tumor DNA (ctDNA) status determined by tumor-agnostic method. (B) Kaplan-Meier plots of DFS analysis by tumor stage and post-op ctDNA status determined by tumor-informed method. (C) Prevalence of preoperative DNA positivity in negative and relapsed (N-RE), negative and non-relapsed (N-NR), and positive and relapsed (P-RE) patients. (D) Heatmap of the genetic mutations identified in N-RE patients. (E-H) Tissue mutation counts (E), maximum allelic fraction (MAF, F), prevalence of cell cycle-related mutations (G), and prevalence of *SMAD4* mutations (H) in N-RE, N-NR, and P-RE patients.