



Supplementary Figure 1B

Supplementary Figure 1A



Supplementary Figure 2

Supplement figure legend:

Supplement Figure 1A: Kaplan-Meier analysis, showing that overall survival (OS) rates were significantly higher in the low- than in the high-risk group in TCGA cohort ($P = 0.034$ by log-rank test).

Supplement Figure 1B: AUC of time-dependent ROC curves measuring the ability of the model to predict OS of TCGA cohort in 3-year, 5-year and 7-year.

Supplement Figure 2: Biomedical Ethics Committee of Shandong Provincial Hospital approved that no ethic statement