Supplementary Information (SI) for Analytical Methods. This journal is © The Royal Society of Chemistry 2025

Supplementary Figure Legends

Supplementary Figure 1. The flow diagram of this study

Supplementary Figure 2. Translational validation of IRF4 using TMA.

(A) IRF4 IHC staining in healthy colorectal and colorectal cancer (CRC) tissues. (B) Clinicopathological factors among patients with CRC: a multivariate survival analysis.

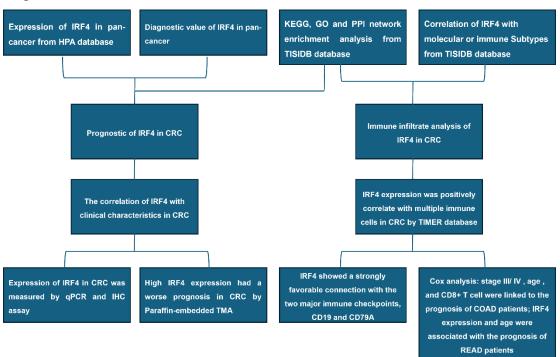
Supplementary Figure 3. Analysis of immune infiltration using IRF4 in CRC.

(A-C) IRF4 expression across a variety of immune cells from the HPA database. (D) The Human Protein Atlas reveals lymph node immune cell types' IRF4 single-cell RNA expression patterns. (E) HPA database immune cell type indicators and IRF4 relationship.

Supplementary Figure 4. The differential expression of IRF4 in different cells and the correlation between expression and immune score

(A-B) The differential expression of IRF4 in different immune cells. (C) The correlation between IRF4 expression and immune scores themselves.

sFig.1



sFig.2

