

Figure S1. Expression and prognostic role of CMTM4 in postoperative tissues in LARC. (A) CMTM4 was lowly expressed in postoperative tissues compared with adjacent normal tissues in LARC. Quantification of the IHC scores of CMTM4 in paired tumor tissues and adjacent normal tissues from postoperative patients (n=178; $P<0.0001$). (B) K-M survival curves of tumor CMTM4 expression from postoperative tissues. CMTM4 expression was not associated with OS or DFS in patients with LARC. CMTM4, CKLF-like MARVEL transmembrane domain member 4; LARC, locally advanced rectal cancer; K-M, Kaplan-Meier; IHC, immunohistochemistry; OS, overall survival; DFS, disease-free survival; IHC, immunohistochemistry.

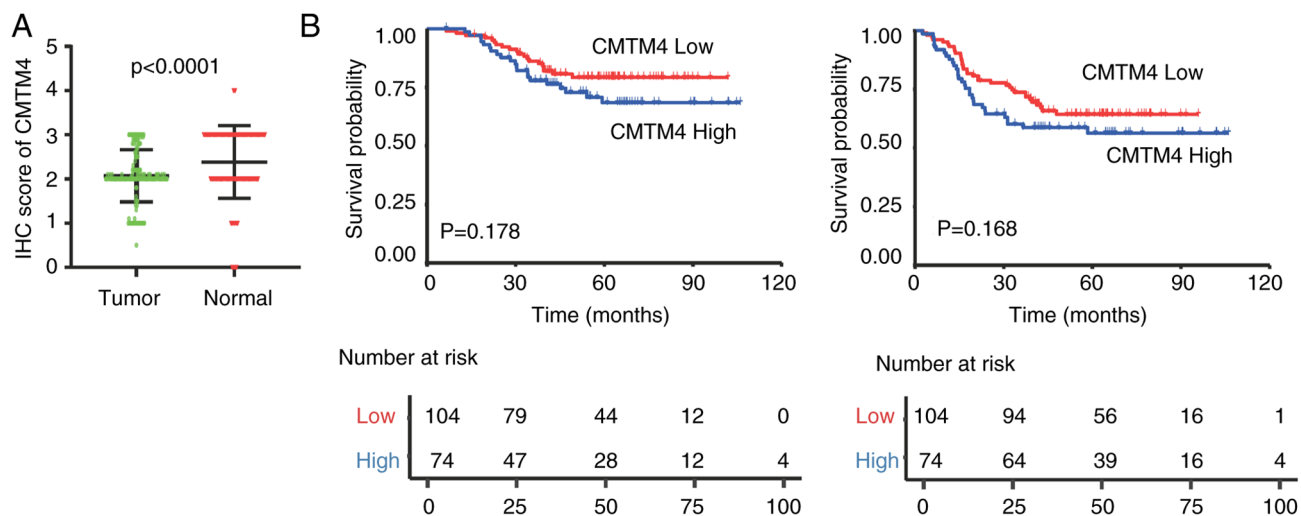


Figure S2. Correlation analysis between CMTM4 and immune cell infiltrations in the READ dataset from the TIMER database. CMTM4, CKLF-like MARVEL transmembrane domain member 4; READ, rectum adenocarcinoma; TIMER, Tumor Immune Estimation Resource.

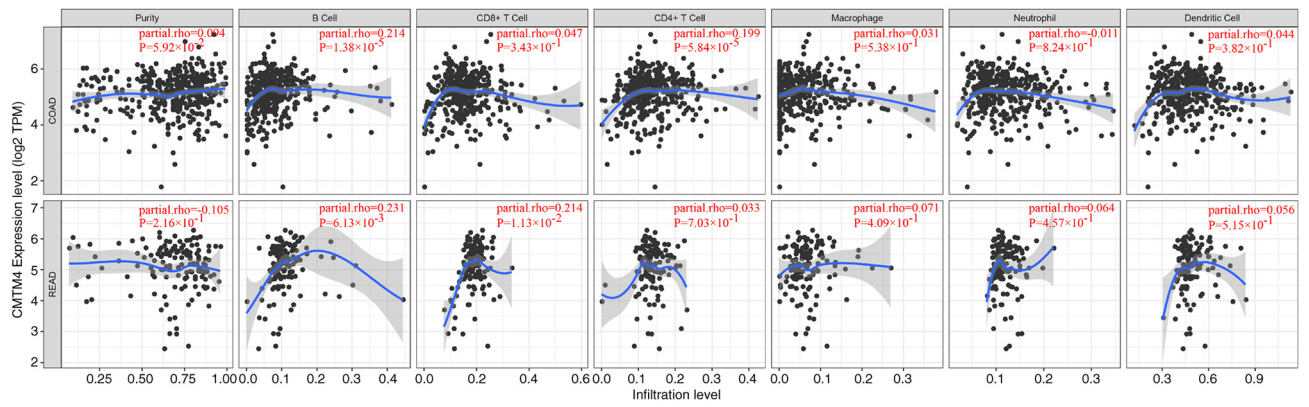


Figure S3. CXCL8 expression in intratumor and invasive margins in patients with LARC. (A) Representative IHC images of CXCL8 expression in tissues from patients with LARC. Left panel, IM (+)/IT (-); right panel, IM (-)/IT (+). Scale bar, 200 μ M. (B) Enlarged representative IHC images of CXCL8 expression in the indicated regions. a, IT CXCL8 negative; b, IM CXCL8 negative; c, IT CXCL8 positive; d, IM CXCL8 positive. Scale bar, 50 μ M. IT, intratumor, IM, invasive margin; CXCL8, chemokine (CXC motif) ligand 8; LARC, locally advanced rectal cancer.

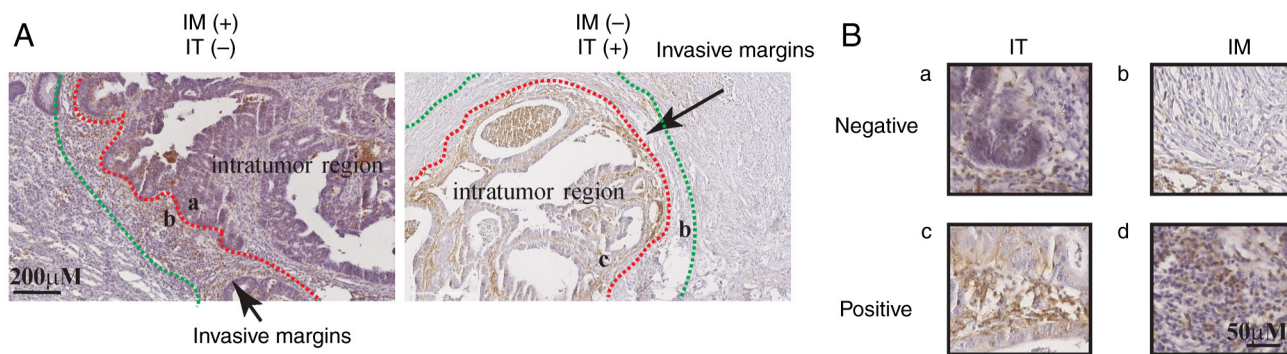


Figure S4. K-M analysis of CXCL8 of the intratumor region in patients with LARC. (A) A negative correlation between CMTM4 and CXCL8 was confirmed using RT-qPCR in post-operative tissues ($P=0.031$). (B) The CXCL8 expression on the intratumor region was not associated with DFS in patients with LARC ($n=56$; $P=0.546$). (C) K-M analysis indicated that CXCL8 expression in the intratumor region was not associated with OS in patients with LARC ($n=56$; $P=0.973$). CMTM4, CKLF-like MARVEL transmembrane domain member 4; K-M, Kaplan-Meier; RT-qPCR, reverse transcription-quantitative PCR; CXCL8, chemokine (CXC motif) ligand 8; DFS, disease-free survival; LARC, locally advanced rectal cancer; OS, overall survival.

