

Figure S1. Heatmap and clinicopathological features of TMERS-low and TMERShigh group in GSE16011 dataset. ***P < 0.001.

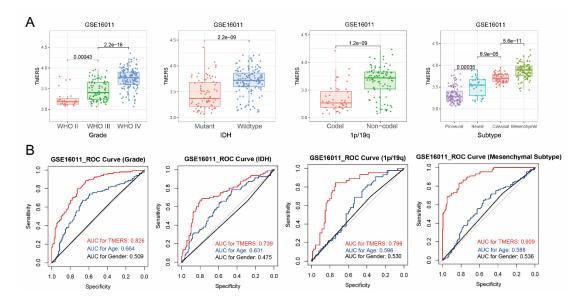


Figure S2. Associations between TMERS and pathological features in GSE16011 dataset. (A) Patients were grouped by WHO grade, IDH mutation status, 1p/19q codeletion status, TCGA molecular subtype. (B) The ROC curve evaluated the predictive value of TMERS in pathological features.

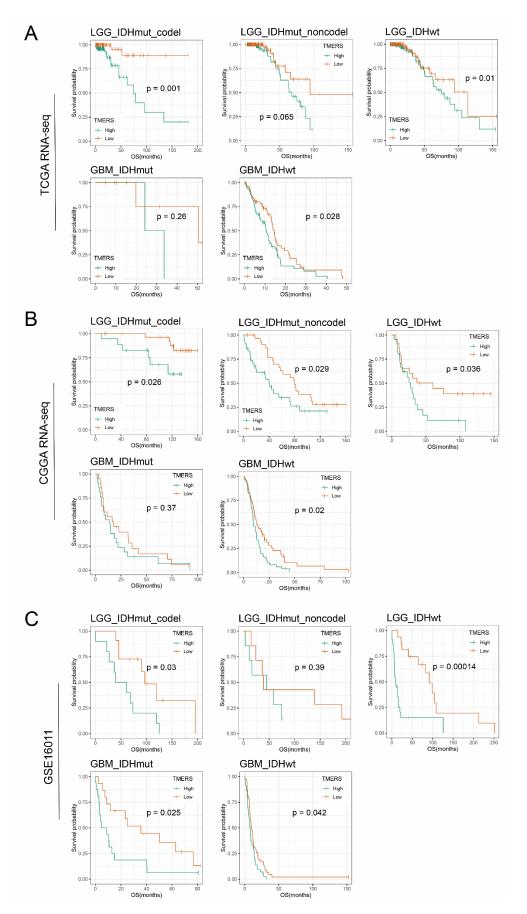


Figure S3. Clinical prognostic value of TMERS. Overall survival prediction of the TMERS in

LGG with IDH-mutant and 1p/19q-codeleted, LGG with IDH-mutant and 1p/19q-intact, LGG with IDH-wildtype, GBM with IDH-mutant, GBM with IDH-wildtype in TCGA dataset (**A**), CGGA dataset (**B**) and GSE16011 dataset (**C**). Survival difference was determined by a log-rank test.

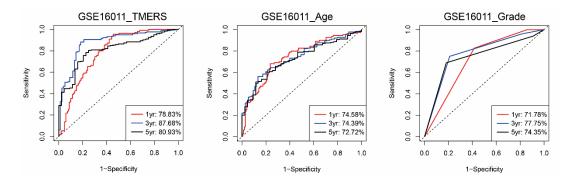


Figure S4. Predictive value of TMERS, age and grade for overall survival in GSE16011 dataset. (A) 1-year, 3-year and 5-year ROC curves indicated the sensitivity and specificity of TMERS, age and grade in GSE16011 dataset.

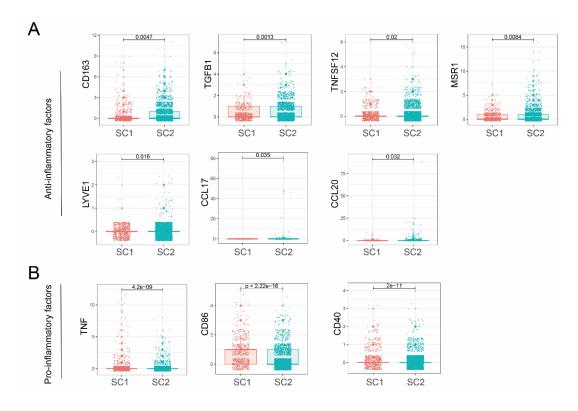


Figure S5. Phenotypic analysis of macrophages in two single-cell sequencing samples. (A) Expression levels of anti-inflammatory factors in macrophages. (B) Expression levels of pro-inflammatory factors in macrophages.