

Figure S1. (a) The process of subtypes classification using NMF. (b-f) Kaplan-Meier survival analysis and ROC analysis of LMRGPI and other pre-existing prognostic models in predicting the OS of early-stage LUAD. NMF, non-negative Matrix Factorization; ROC, receiver operating characteristic curve; LMRGPI, lipid metabolism-related gene prognostic index; LUAD, lung adenocarcinoma.

0.2

0.4

0.4

0.2

0.2 0.4 0.6 0 1-Specificity (FPR)

0.4

0.4 0.6

0.2

0.4

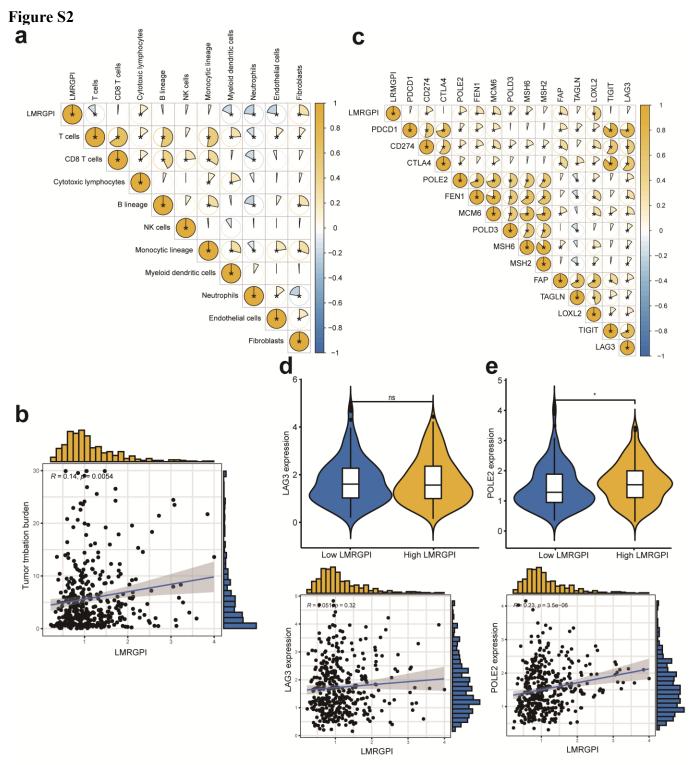


Figure S2. (a) The correlation between LMRGPI and the infiltration of the immune cells. (b) The association between LMRGPI and ICIs related genes expression. (c) The relationship between LMRGPI and TMB. (d-e) Box plots and correlation plots to show the relationship between LMRGPI and LAG3 (d) and POLE2 (e). ns represents no statistical significance; * represents P<0.05.