Figure Legend:

Figure S1

The prognostic impact of the expression of the 12 model genes on lung adenocarcinoma patients.

Figure S2

Expression profile of model genes. (A) The heatmap illustrates the expression and inter-group differences of model genes in patients from the training set. (B) The heatmap illustrates the expression and inter-group differences of model genes in patients from the validation set. (C) The heatmap illustrates the expression and inter-group differences of model genes in all patients. (D) Differences and significance of model gene expression between HRLAs and LRLAs. \**p*<0.05, \*\**p*<0.01, \*\*\**p*<0.001.

Figure S3

GSEA analysis results for 8 immune-related pathways.

Figure S4

Results of 4 immune infiltration analyses. (A) Results of XCELL immune infiltration analysis and the differences in infiltration between HRLAs and LRLAs. (B) Results of CIBERSORT immune infiltration analysis and the differences in infiltration between HRLAs and LRLAs. (C) Results of TIMER immune infiltration analysis and the differences in infiltration between HRLAs and LRLAs. (D) Results of MCPcounter immune infiltration analysis and the differences in infiltration between HRLAs and LRLAs.