

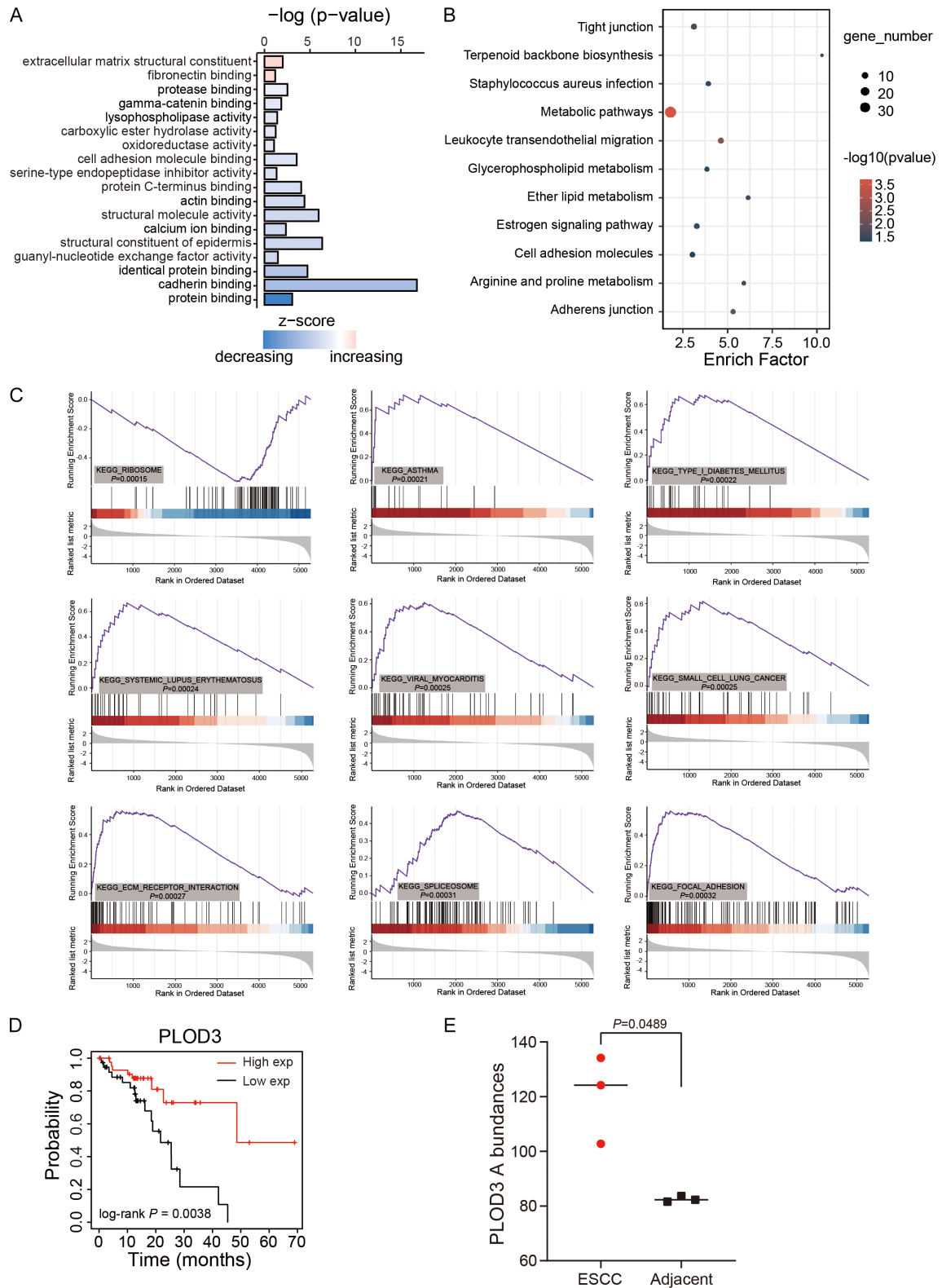
## RBM15 increase tumor-infiltrating CD4+ T cell in ESCC via modulating of PLOD3

**Supplementary Table 1.** Summary of clinical characteristics of the 19 esophageal squamous cell carcinoma patients

Variables	All cases (N=19; %)
Gender	
Male	17 (89.5)
Female	2 (10.5)
Age (year)	
< 65	6 (31.6)
≥ 65	13 (68.4)
Size (cm)	
< 4	3 (15.8)
≥ 4	16 (84.2)
Grade	
Poor	4 (21.1)
Moderate	10 (52.6)
Well	5 (26.3)
Lymph node status	
0	12 (63.2)
≥ 1	7 (36.8)

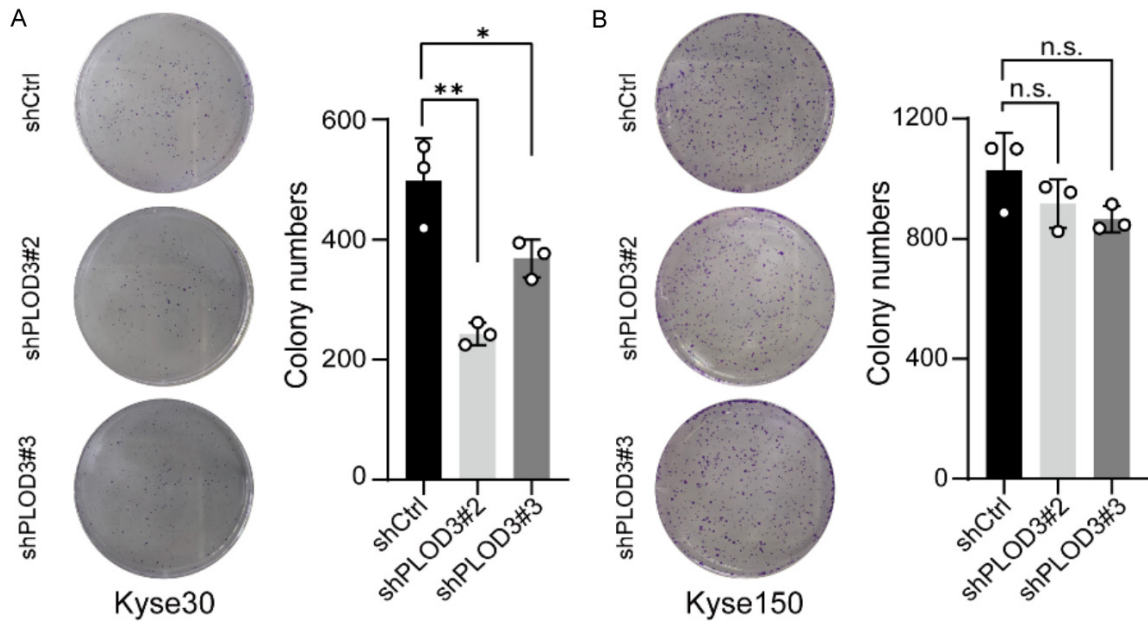
NOTE: The numbers in parentheses indicate the percentages of tumors with a special clinical.

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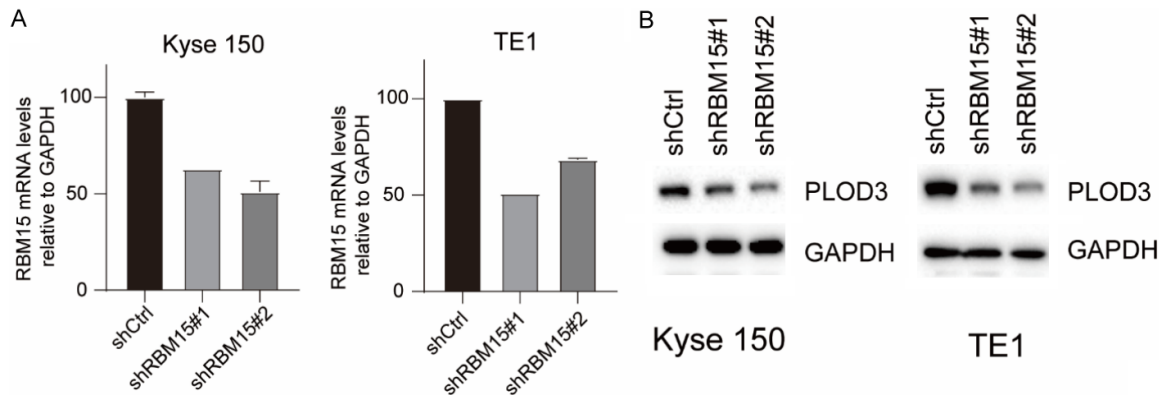


**Supplementary Figure 1.** Analysis of signaling pathways. (A-C) GO (A), KEGG (B) and GSEA (C) analysis of differential proteins in ESCC. (D) The overall survival (OS) curve of high- and low-PLOD3 groups in KM-plotter ESCC data set. (E) PLOD3 abundances in ESCC tumor and adjacent tissue which was used in LC-MS/MS. Paired, two-tailed Student's t-test.

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**Supplementary Figure 2.** PLOD3 has no effect on clone formation in ESCC cells. (A, B) Colony formation assay in Kyse30 (A) and Kyse150 (B) cells. Representative images and statistical plots are shown; Mean  $\pm$  s.d. are given for three independent experiments. One-way ANOVA; \* $P < 0.05$ , \*\* $P < 0.01$ , n.s.-no significant difference.



**Supplementary Figure 3.** RBM15 regulates PLOD3 expression in ESCC cells. A. Efficient knockdown of RBM15 by shRNA in Kyse150 and TE1 cells was verified by quantitative real-time PCR. B. PLOD3 expression was determined by Western blot.