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Overexpression of *MYBL2* predicts poor prognosis and promotes oncogenesis in endometrial carcinoma

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Key words: Endometrial carcinoma; *MYBL2*; copy number; proliferation; prognosis.

Table S1. 10 DEGs copy number p-value data.

| Gene | Spearman | p | Pearson | p |
|---------------|----------|----------|---------|----------|
| <i>MYBL2</i> | 0.34 | 4.08E-15 | 0.54 | 1.43E-39 |
| <i>CCNB2</i> | 0.13 | 4.72E-03 | 0.11 | 0.01 |
| <i>ZNF695</i> | 0.26 | 1.99E-09 | 0.29 | 2.89E-11 |
| <i>TCF23</i> | 0.01 | 0.92 | -0.06 | 0.42 |
| <i>ASPA</i> | -0.02 | 0.64 | -0.03 | 0.44 |
| <i>TROAP</i> | 0.22 | 5.21E-07 | 0.24 | 2.78E-08 |
| <i>CLEC4M</i> | -0.08 | 0.29 | 0.03 | 0.68 |
| <i>CDC25C</i> | 0.01 | 0.86 | 0.15 | 6.17E-04 |
| <i>SKA3</i> | 0.07 | 0.12 | 0.20 | 8.45E-06 |
| <i>FGF10</i> | -0.03 | 0.73 | -0.03 | 0.67 |

Download the copy number of 10 DEGs, compare the Spearman and Pearson of each gene, and the p-value for each gene. The p-value of *MYBL2* is the lowest, so the CNAs of *MYBL2* gene is the most obvious.

Table S2. 5 DEGs Survival analysis.

| Gene | p-value | |
|---------------|---------|-------|
| | OS | DFS |
| <i>ASPS</i> | 0.46 | 0.172 |
| <i>MYBL2</i> | 0.020 | 0.014 |
| <i>TROAP</i> | 0.685 | 0.255 |
| <i>CCNB2</i> | 0.030 | 0.856 |
| <i>CDC25C</i> | 0.416 | 0.295 |

The five most significant genes in EC were verified by GEO data set. Both overall survival (OS) and disease-free survival (DFS) of *MYBL2* gene are meaningful ($p < 0.05$).

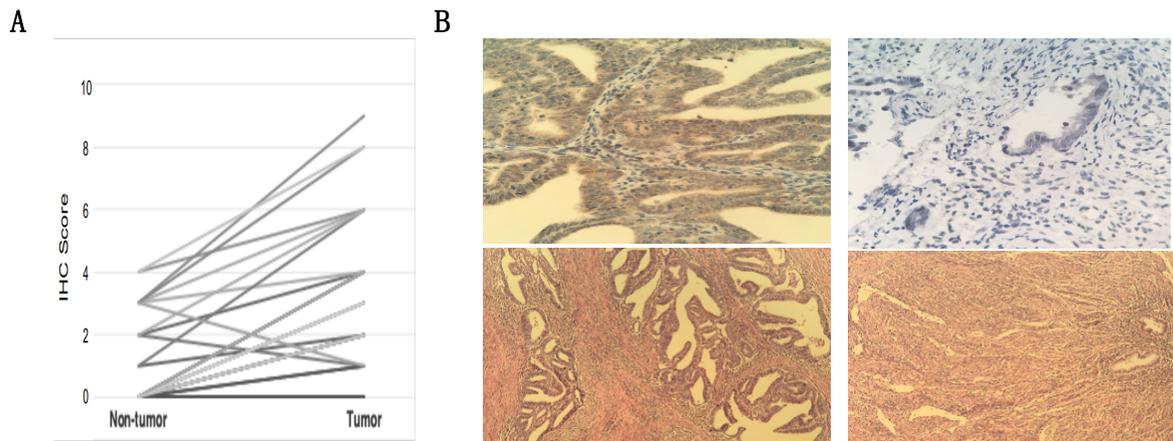


Figure S1.

IHC of *MYBL2* expression in EC tissue. A) the IHC scores of EC and adjacent tissues. B) IHC and HE staining results of EC and adjacent tissues. In IHC, *MYBL2* stained positively in the nucleus and cytoplasm.

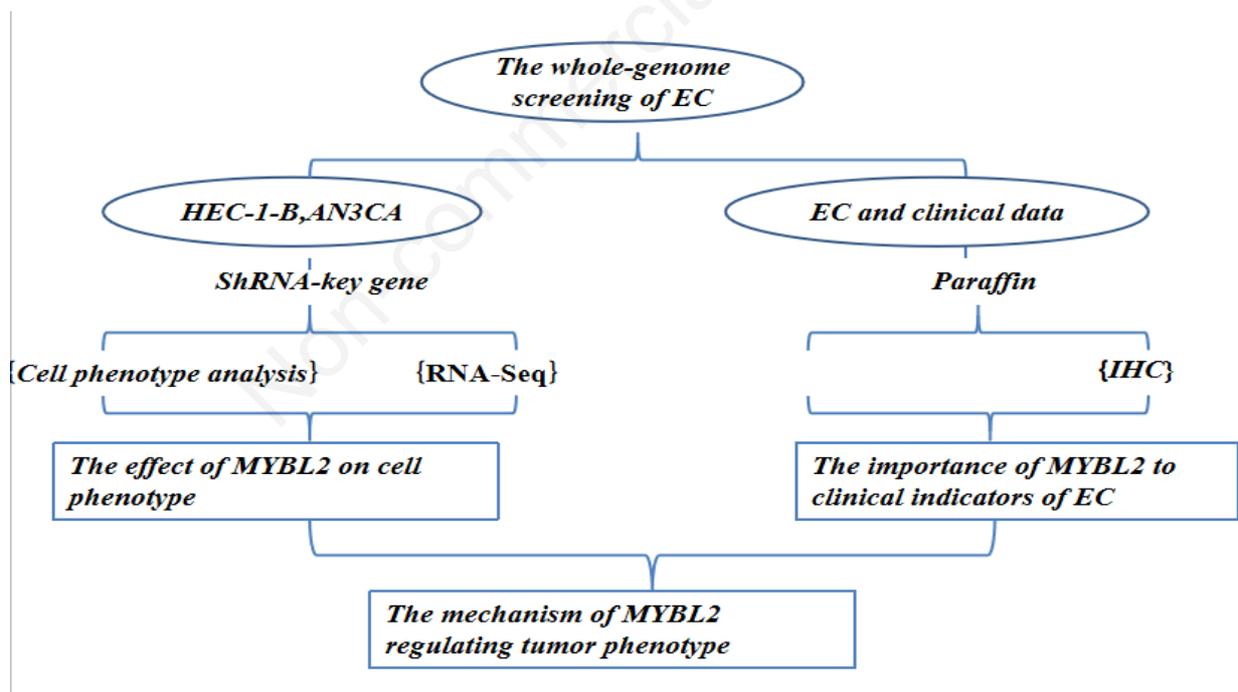


Figure S2.

Flow chart of the study.