Supplementary Materials

Grid2 interacting protein is a potential biomarker related to immune infiltration in colorectal cancer

Jiajing Zhao^{1,†}, Jiazheng Quan^{2,†}, Weilin Chen^{2,*} & Xiaojun Xie^{1,*}

¹Department of General Surgery, the First Affiliated Hospital of Shantou University Medicine College, Shantou, 515000, China

²Marshall Laboratory of Biomedical Engineering, Institute of Biological Therapy, Shenzhen University Medical School, Shenzhen University, Shenzhen, 518055, China *Corresponding author: Prof. Weilin Chen, Tel: 86-0755-26910334. Fax:86-0755-26910334. E-mail: cwl@szu.edu.cn.

^{*}Corresponding author: Prof. Xiaojun Xie, E-mail: xjxie79@163.com

[†] These authors contributed equally to this project.

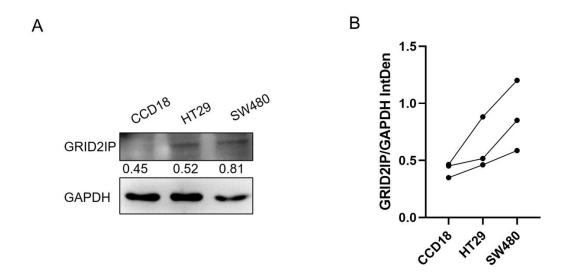


Fig. S1 GRID2IP protein expression in CCD18, HT19 and SW480 cells. **A** Western Blotting of GRID2IP in CCD18, HT19, and SW480 cells. **B** Gray-scale calculation of GRID2IP Western Blotting in CCD18, HT19, and SW480 cells

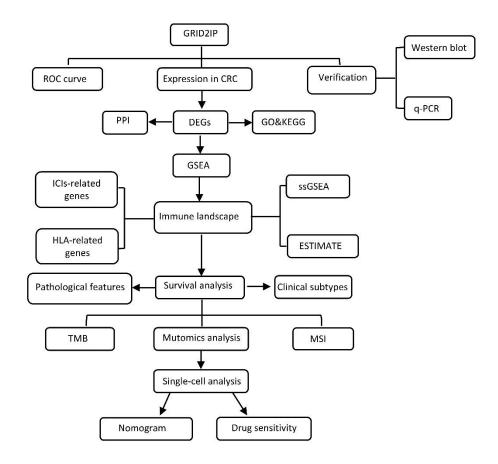


Fig. S2 Complete experimental flow chart.

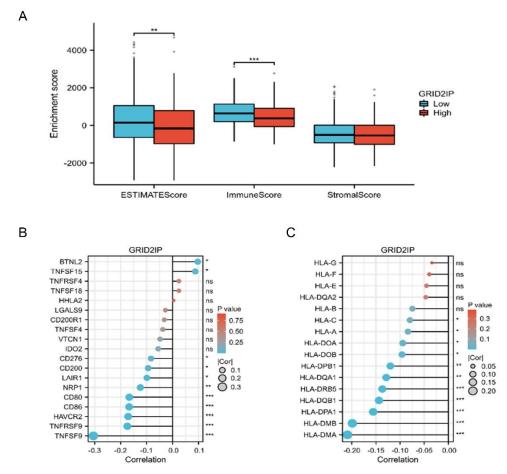


Fig. S3 Correlation between GRID2IP and TME, immune checkpoint inhibitor-related genes and HLA related genes. **A** Relationship between GRID2IP and alterations in the immune landscape. **B** Lollipop plot of correlation between GRID2IP and immune checkpoint inhibitors related genes. **C** Lollipop plot of correlation between GRID2IP and HLA related genes. *p<0.05, **p<0.01, ***p<0.001.

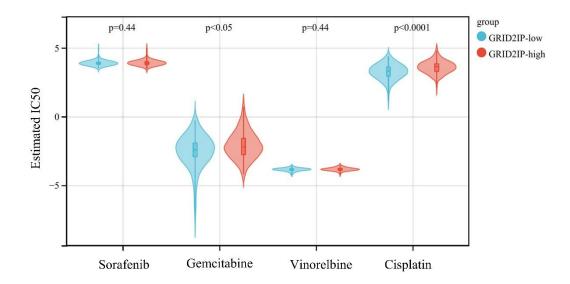


Fig. S4 Different anti-cancer drug sensitivities in GRID2IP subgroups.