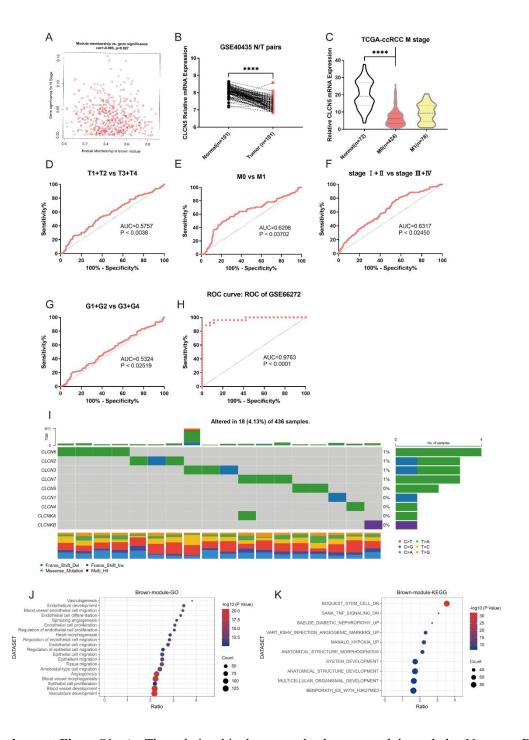
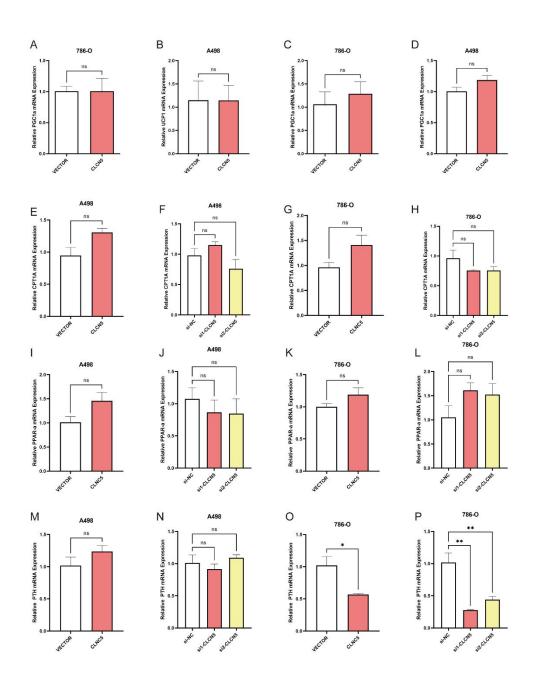
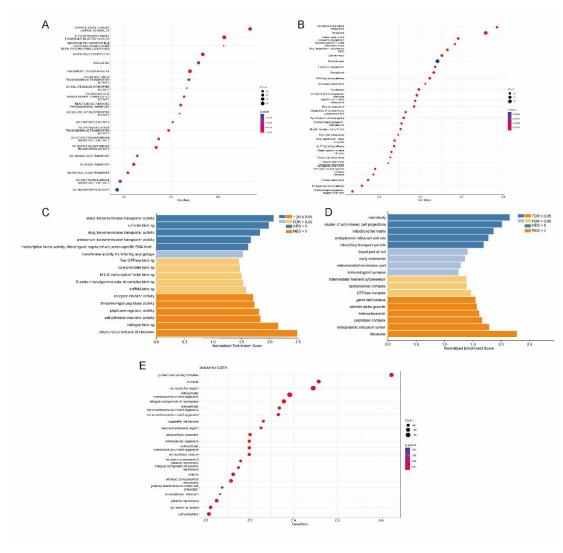
1 CLCN5 inhibits tumorigenesis and fatty acid accumulation in clear cell renal cell carcinoma 2 by regulating Enoyl CoA hydratase and 3-Hydroxyacyl CoA dehydrogenase 3 Tiexi Yu^{a,b,c,*}, Weiquan Li^{a,b,c,*}, Xiangui Meng ^{a,b,c,*}, Wei Yang^{a,b,c}, Hailong Ruan^{a,b,c,#}, Wen Xiao ^{a,b,c,#}, Xiaoping 4 5 Zhang a,b,c,# 6 7 8 9 * Tiexi Yu, Weiquan Li, and Xiangui Meng contributed equally to this work 10 # Correspondence: 11 Hailong Ruan hlruan2018@hust.edu.cn 12 Wen Xiao wxuro20@hust.edu.cn 13 Xiaoping Zhang <u>xzhang@hust.edu.cn</u> ^a Department of Urology, Union Hospital, Tongji Medical College, Huazhong University of Science and 14 15 Technology, Wuhan, 430022, China. 16 ^b Shenzhen Huazhong University of Science and Technology Research Institute, Shenzhen 518000, China. 17 ^c Institute of Urology, Tongji Medical College, Huazhong University of Science and Technology, Wuhan 430022, 18 China. 19 20



Supplement FigureS1: A: The relationship between the brown module and the N stage. B: CLCN5 expression level between normal and tumor in GSE40435 dataset. C: CLCN5 expression level both. M stage in GSE40435 dataset. D-F: The ROC curve between clinicopathological subgroups in the TCGA-KIRC dataset. H: ROC curves of GSE66272 dataset. I: The copilot of CIC family members. J, F: The GO and KEGG of the brown module identified by WGCNA.

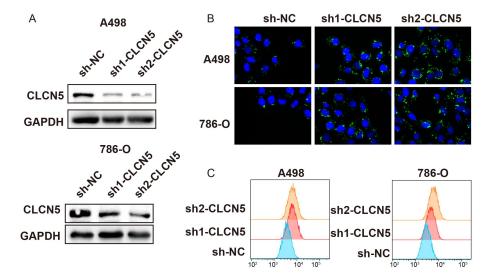


Supplement FigureS2: A-P: the mRNA level of classical genes associated with lipid metabolism (UCP1, CPT1A, PPARA, PTH, and PGC1A) in up-regulated and down-regulated CLCN5 in A498 and 786-O cell line.



33 Supplement FigureS3: A, B, E: The GO, KEGG, and GSEA of CLCN5 illustrated by R. C, D:

The MF (molecular function) and CC (Cell Component) of CLCN5.



Supplement FigureS4: A, Stable knockdown CLCN5 was constructed in renal cancer cell lines; B and C: Fluorescence microscopy analysis and neutral lipid levels were showed the function of stable knockdown CLCN5 in renal cancer cells.