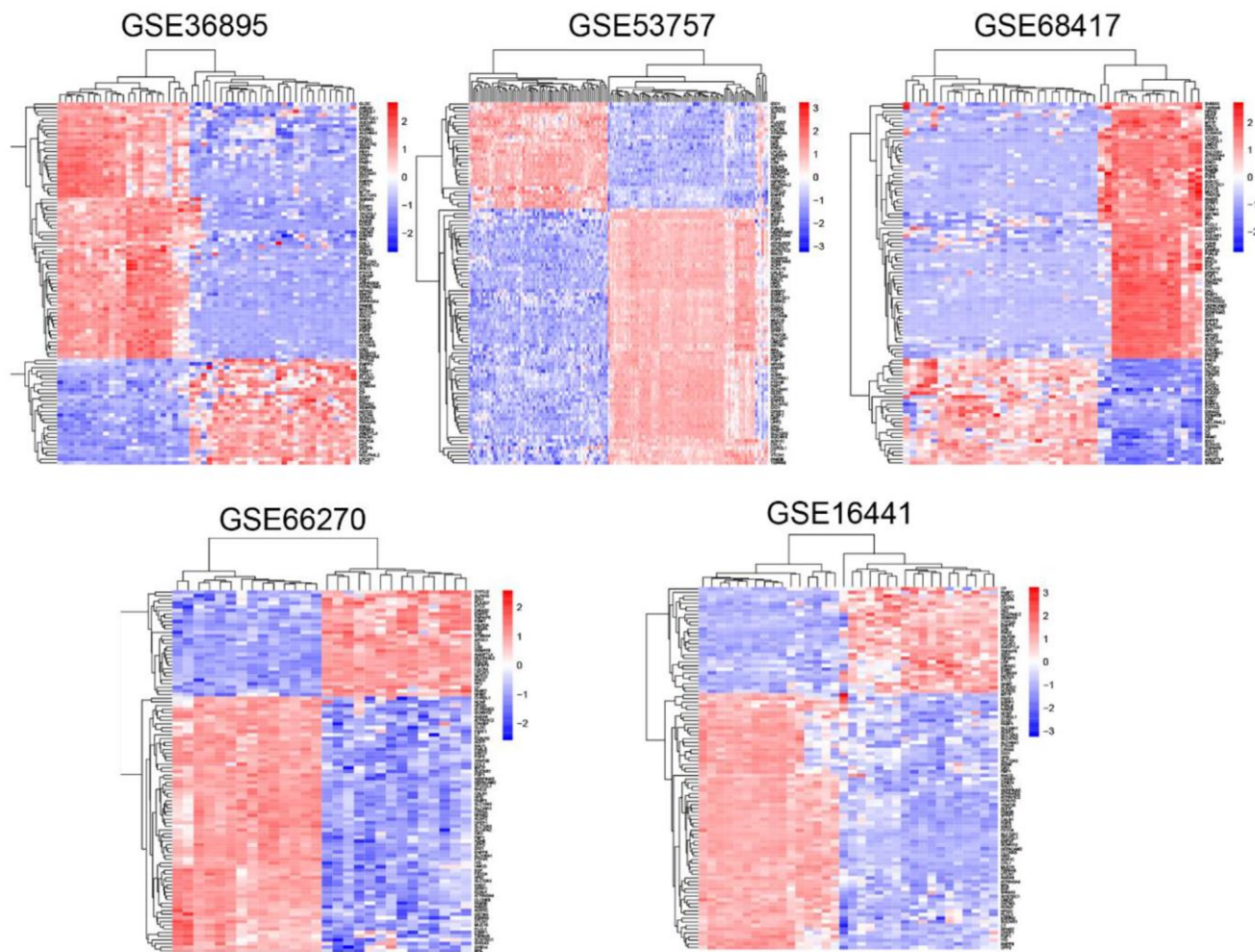
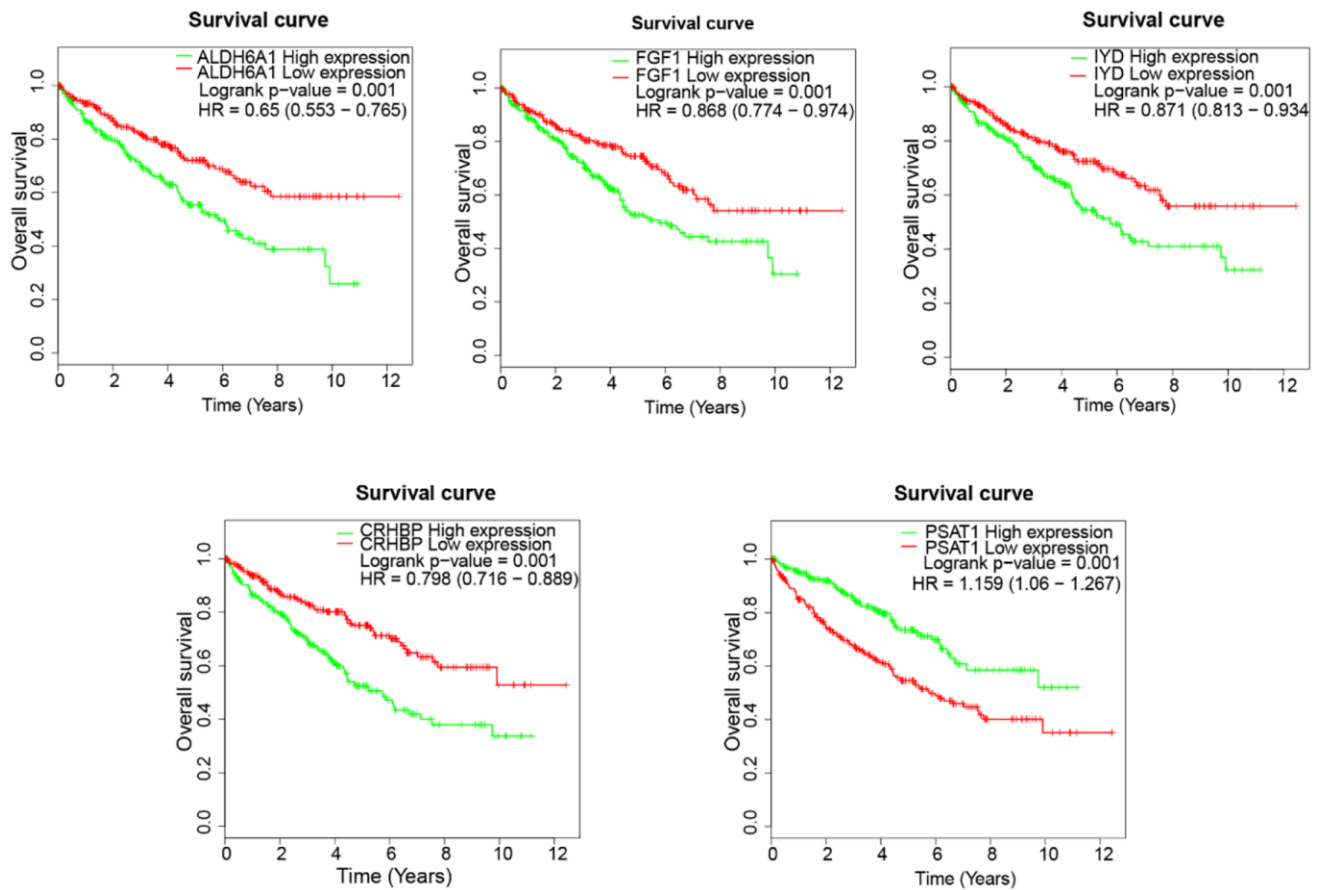


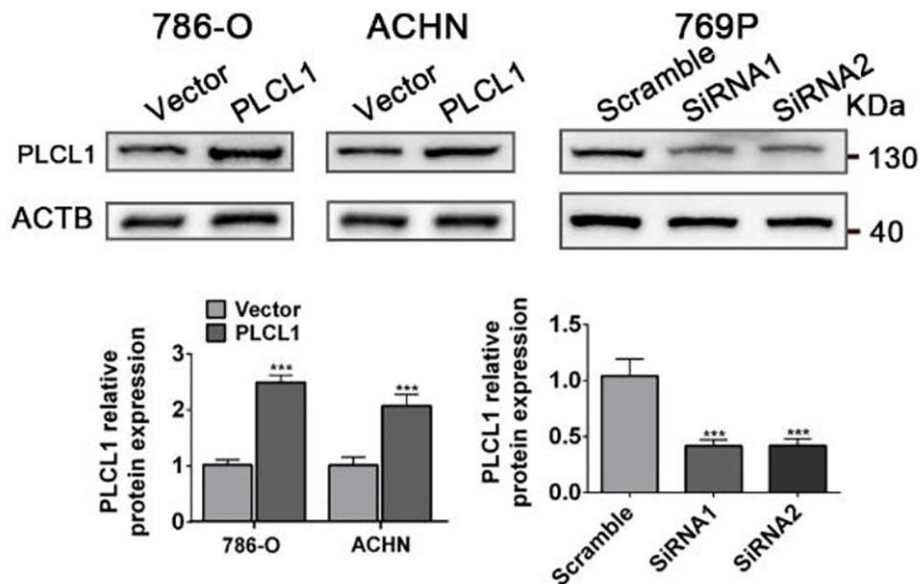
SUPPLEMENTARY FIGURES



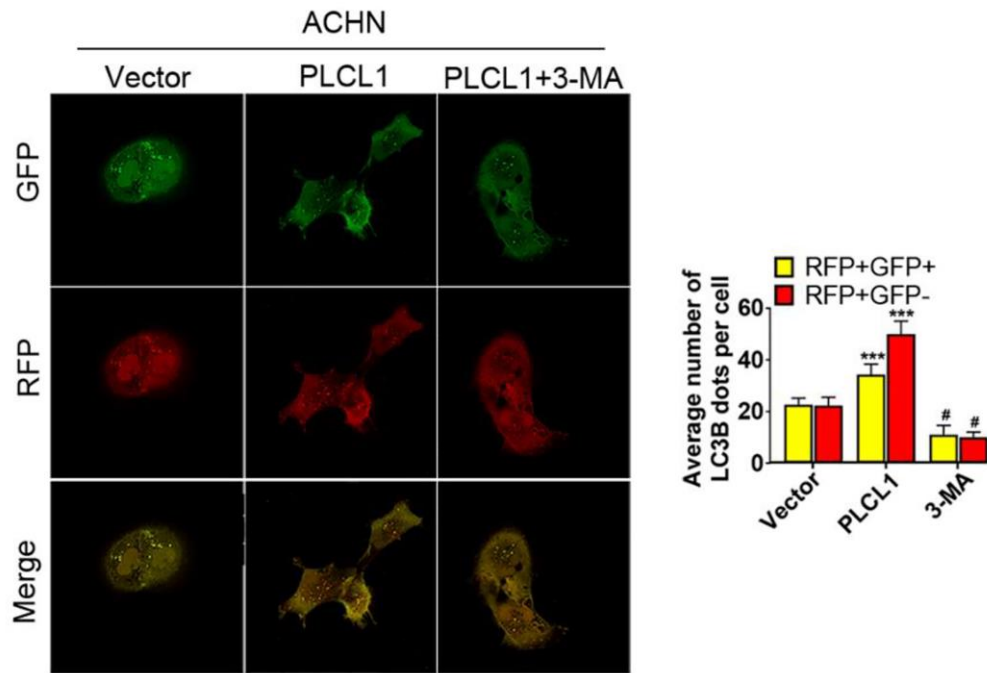
Supplementary Figure 1. Heatmap of 99 genes in five datasets. Clustering analysis of the 99 genes in each independent dataset. Each column represents a sample and each row represents the expression level of a gene. The color scale represents the raw Z score ranging from blue (low expression) to red (high expression). Dendrograms by each heatmap correspond to the hierarchical clustering by expression of the 99 mRNA.



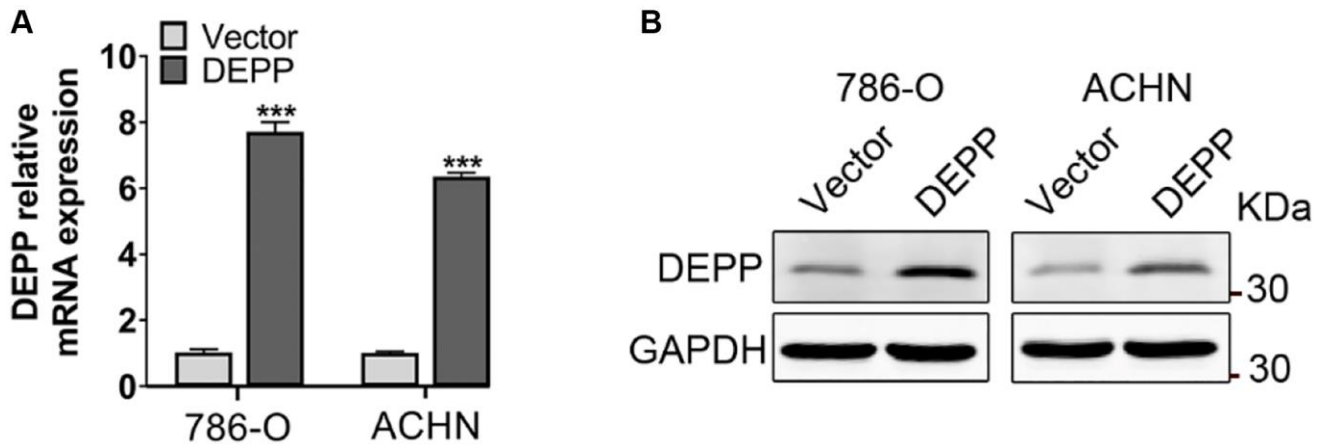
Supplementary Figure 2. The Kaplan-Meier curve of ccRC patients in TCGA grouped based on the median levels of each gene. Abbreviation: HR: hazard ratio.



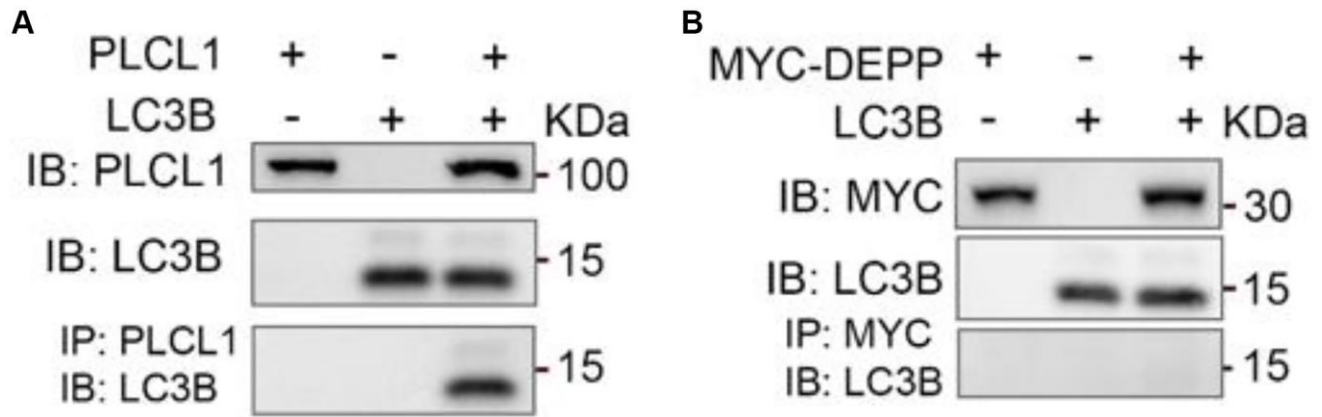
Supplementary Figure 3. Representative western blots and quantification analysis of PLCL1 in ccRC cells transfected with Vector or PLCL1-targeted lentivirus. ACTB was used as a loading control. * $P < 0.05$; ** $P < 0.01$; *** $P < 0.001$, versus the Vector group.



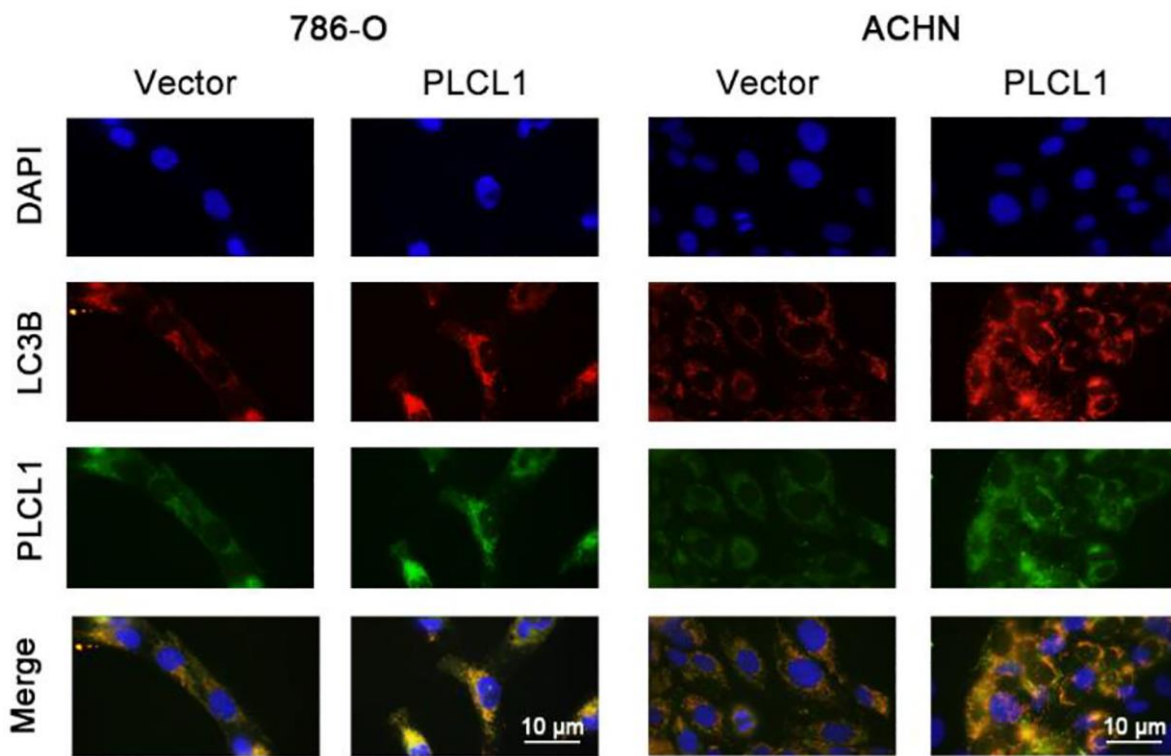
Supplementary Figure 4. ACHN cells transfected with GFP-mRFP-LC3B adenovirus were analysed using immunofluorescence. Autolysosome (red dots) and autophagosome (yellow dots) formation are shown using confocal microscopy and were quantitatively analysed. Scale bar, 20 μ m.



Supplementary Figure 5. Transfection efficiency of ccRCC cells. 786-O and ACHN were transfected with DEPP lentivirus and vector and analyzed by RT-qPCR and western blotting (A, B).



Supplementary Figure 6. (A, B) Interaction between PLCL and LC3B or DEPP and LC3B in 786-O cells. The coimmunoprecipitates were utilized for western blotting with anti-PLCL1, anti-LC3B and anti-MYC antibodies.



Supplementary Figure 7. Co-localization and expression of LC3B (red) and PLCL1 (green) in 786-O and ACHN Vector and PLCL1 overexpressing cells were examined by fluorescence microscopy.