**Supplementary tables**

Table S1 The clinic pathological factors of ccRCC patients

| Characteristics | Expression of KCNQ1DN | | *P*-value[1] |
|---|---|---|---|
| | Low ( 15 ) | High ( 14 ) | |
| *Sex* | | | 0.81 |
| Male | 9 | 9 | |
| Female | 6 | 5 | |
| *Age* | | | 0.60 |
| ≤60 | 10 | 8 | |
| > 60 | 5 | 6 | |
| *Histological grade* | | | 0.92 |
| Low or undiffer | 12 | 11 | |
| Middle or high | 3 | 3 | |
| *TNM stage* | | | 0.91 |
| I/II | 11 | 10 | |
| III/IV | 4 | 4 | |

[1]Chi-square test.

Table S2. The primer sets used in qPCR

| Targets | Forward primers (5′-3′) | Reverse primers (5′-3′) |
|---|---|---|
| *h c-Myc* | GCAGCTGCTTAGACGCTGGA | CGCAGTAGAAATACGGCTGCAC |
| *h p27* | AAATGTTTCAGACGGTTCCC | CATTCCATGAAGTCAGCGATA |
| *h Cyclin D1* | CGCCCCACCCCTCCAG | CCGCCCAGACCCTCAGACT |
| *h KCNQ1DN* | GCTGGGGTCTTCTCCTGA | CTCTTGTTTTGCTTTCTTTCC |
| *h β-actin* | GTGAAGGTGACAGCAGTCGGTT | GAAGTGGGGTGGCTTTTAGGA |

*h*: human

Table S3. The sequences of siRNAs

| siRNAs | Forward 5′—3′ |
|---|---|
| siKCNQ1DN-1# | GCUGCCUUUGGACCAGAUUTT |
| siKCNQ1DN-2# | GCCCUUCUGAGAAAGCAAUTT |
| siNC | UUCUCCGAACGUGUCACGUTT |

Figure S1

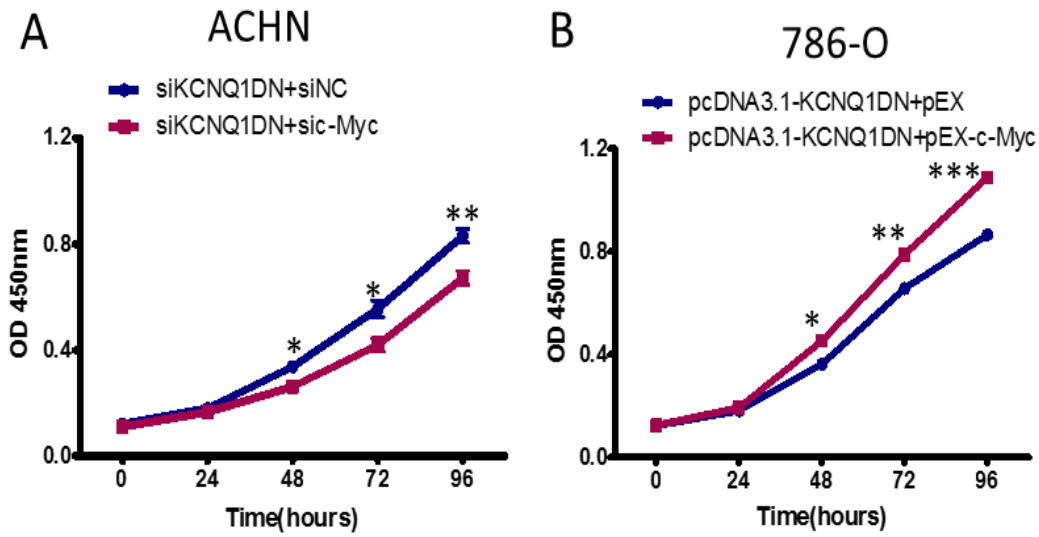


**Figure S1,** KCNQ1DN inhibits the survival of RCC cells through downregulating c-Myc. ACHN ***(A)*** and 786-O ***(B)*** cells were transfected with the indicated siRNAs or plasmids for 48h. The cell viability was determined by CCK-8 assay***s***. siNC: control siRNA; siKCNQ1DN: siRNA for KCNQ1DN; sic-Myc: siRNA for c-Myc; pcDNA3.1-KCNQ1DN: expression plasmid of KCNQ1DN; pEX-c-Myc: expression plasmid of c-Myc; **P*<0.05, ***P*<0.01, ****P*<0.001