Supplementary Figure 1. Flow chart for patient selection and different tested performed.

Supplementary Figure 2. A, virtual karyotyping of the UOK109 cell line shows the following copy number alterations: +2, +5q,+7,-8p,+8q,-9p,+16, which are consistent with pRCC karyotyping. B, virtual karyotyping of the UOK146 cell line shows 3p loss, 9 p loss, 17 p loss and 17 gain. C, conventional karyotyping of the UOK146 cell line shows the following alterations: M1 = del(1p), M2 = del(3p), M3 = del(6q), M4 = i(17q), and M5 = t(X;1)(p11.2;q21.2). D, FISH result for TFE3 split in the novel MDA-92 cell line.

Supplementary Figure 3. A) Gene Set enrichment Analysis (GSEA) showing enrichment of mitosis pathways in cases with 17q gain. B, Ingenuity Pathway Analysis of genes expressed differently between samples with partial 17q gain and without it showing activation of ICOS-ICOSL signaling in T helper cells and activation of the CTLA4 signaling pathway.