



Figure S5. Expression and growth analysis upon CCND1 or RB1 loss

- a. Immunoblot for Cyclin D1, Cyclin D2 for FaDu, Detroit562 and TC-OKC cells upon CCND1 knockout.
- b. Gene expression values 72 hrs post CCND1 knockdown, relative to control.
- c. Relative cell viability values based on Alamar Blue assay upon knockout of Control SC1, CCND1, CCND2, or CCND1+CCND2 in Detroit562 cells. Average doubling times in hours: SC1: 32.7, CCND1: 46.4, CCND2: 42.6, CCND1+CCND2: 63.6.
- d. Immunoblot for Cyclin D2 for FaDu, Detroit562, and TC-OKC cells upon CCND2 knockout.
- e. Immunoblot for RB1, pRB S780, and B-tubulin for FaDu and Detroit562 cells upon RB1/RBL1/RBL2 knockout.
- f. Relative cell viability values based on Alamar Blue assay upon CCND1 knock-out in RB1/RBL1/RBL2 knockout Detroit562 cells. Average doubling times in hours; WT/SC1: 33.6, WT/CCND1: 40.5, RB/SC1: 35.0, RB/CCND1: 48.7.
- g. Immunoblot for phosphoRB upon CCND1 KO in FaDu and Detroit562 cells.
- h. Running Enrichment Scores of GSEA upon CCND1 knockout in TC-OKC for the RB_P130_DN.V1_DN (left) and Gene Set and Chicas_RB1_targets (right) gene sets.