Figure S1. Sanger sequencing reveals heterozygous *TP53* deletion and frameshift mutations induced in CRISPR/Cas9-edited RS4;11 cells. Genomic DNA was extracted from RS4;11 cell lines transduced with *TP53* sgRNA constructs, following doxy-cycline activation. *TP53* exon 4 was PCR-amplified and purified, and Sanger sequencing of the purified PCR product verified the presence of mutations in cells transduced with (A) *TP53* sgRNA #1 and (B) *TP53* sgRNA #2. A heterogenous population of alterations were present in both cell lines, where an indel size of 0 denotes wild-type sequence. In *TP53* sgRNA #1 cells, the dominant isoform is p.Ala78\_Pro87del (40% of cells). In *TP53* sgRNA #2 cells, the dominant isoform is p.Lys101?fs\*192 (33% of cells). sgRNA, single guide RNA.

