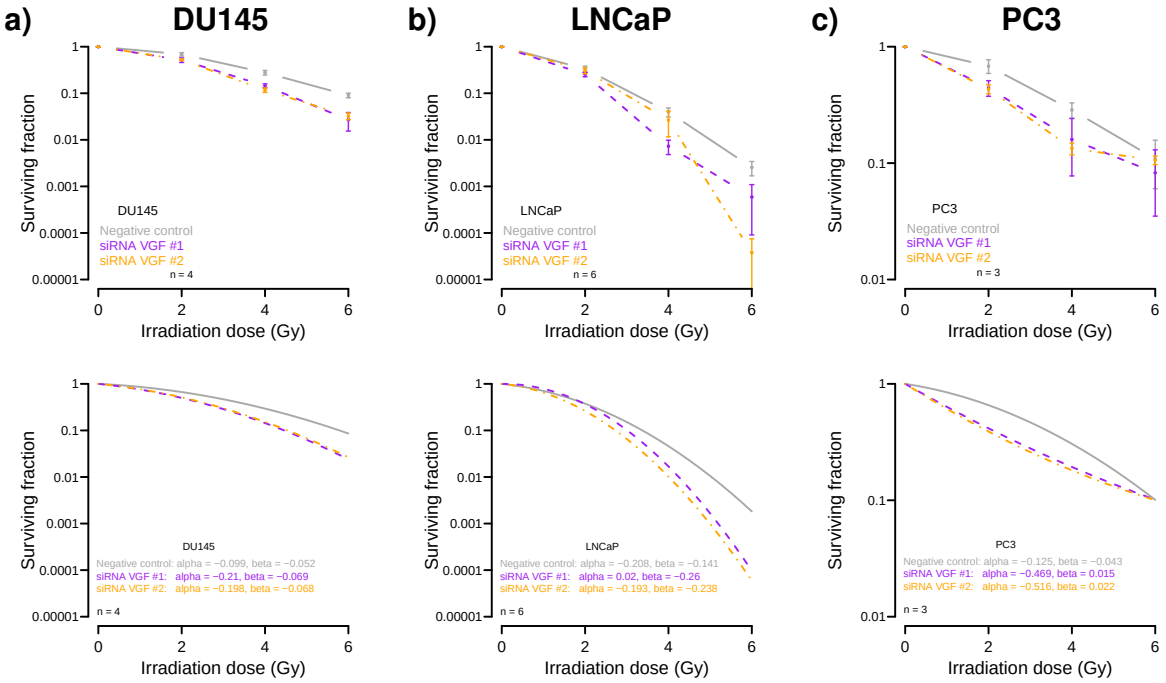
## S11 Figure: LQ model fits of clonogenic survival.




**S11 Figure:** Comparison of raw clonogenic survival data (first row) to linear-quadratic (LQ) models of clonogenic survival data (second row). LQ models were fitted to the experimentally measured survival fraction of cells of each specific experiment to obtain a model-based clonogenic survival curve that enables to obtain the surviving fraction of cells for a given irradiation dose using the R package CFAssay (Braselmann et al. (2015)). The underlying survival curve is described by $S(d) = exp(\alpha \cdot d + \beta \cdot d^2)$, where $d$ specifies the irradiation dose and $\alpha$ and $\beta$ represent the model parameters directly learned form the experimental data. Shown are the clonogenic survival curves for the cell lines DU145 (a), LNCaP (b), and PC3 (c) comparing *VGF* knockdowns by siRNA VGF #1 and siRNA VGF #2 to scrambled siRNAs (negative control). The number of biological replicates done for each cell line is denoted by 'n' and the obtained experiment-specific 'alpha' and 'beta' values are shown. Underlying measurements of DU145 and LNCaP were obtained from the parental cell lines (S7 Table).