



Figure 4 | Predicting sensitivity to topoisomerase I inhibitors. **a**, Elastic net regression analysis of genomic correlates of irinotecan sensitivity is shown for 250 cell lines. **b**, Dose-response curves for three Ewing's sarcoma cell lines (MSS-ES-1, SK-ES-1 and TC-71) and two control cell lines with low *SLFN11* expression (HCC-56 and SK-HEP-1). Grey vertical bars, standard deviation of

the mean growth inhibition ($n = 2$). **c**, *SLFN11* expression across 4,103 primary tumours. Box-and-whisker plots show the distribution of mRNA expression for each subtype, ordered by the median *SLFN11* expression level (line), the inter-quartile range (box) and up to $1.5\times$ the inter-quartile range (bars). Sample numbers (n) are indicated in parentheses.