

S1 Fig. Comparison between essential and non essential genes with similar expression values.

Each x-axis value represents the middle of a (sliding) window with a percentile margin of 40% from which the relevant genes were compared. Y-axis values are $-\log_{10}(\text{p-value})$, where p-value is the result of a wilcoxon one sided test between the relevant essential and non-essential genes. Significance threshold ($-\log_{10}(0.05)$) is marked by a horizontal black line. Each colored curve corresponds to a different expression vector extracted from different sample in each dataset.

Using an expression range with a margin lower than 40% for the comparison only raised the minimal expression threshold for significance (because there are few essential genes with low expression levels).

