



Figure S6 Correlation of fitness measurements between pooled plasmid assays and genomic Integrations. (A) Scatterplot showing fitness measurements for strains based either on a pooled assay in which promoter variants are found on centromeric plasmids (x-axis) or individual measurements in which promoter variants were integrated scarlessly at the *SUL1* promoter (y-axis). Error bars represent standard deviations ($n=2$). The dashed line shows $y=x$. (B) Boxplots showing the distribution of fitness values amongst redundantly barcoded variants tested in (A). Whiskers for boxplots span 95% of the total distribution. Larger outlined points mark the fitness change of strains where each variant has been integrated at the *SUL1* promoter. In both panels, fitness measurements are normalized to the wildtype fitness. The variant “5mut” comprises five mutations: -353T>G, -372T>C, -404C>T, -413A>G, and -458T>A.