

**Figure S1. Sequence of "recoded"** *URA3* **genes used for CRISPR-Cas9-based integration into the yeast genome.** "protein", the amino acid sequence of WT Ura3 starting with residue 69. "WT", a portion of the DNA sequence of WT *URA3* corresponding to the synthetic sequences below that were used as donor templates for recombination. The sequence corresponding to the guide RNA targeting Cas9 cleavage is italicized. Periods indicate no change in the donor sequences relative to WT.