

YKO Parental Strains

Cat. #YSC1048, YSC1049, YSC1050, YSC1061, YSC1062

A nearly complete set of yeast open reading frame (ORF) knock-outs has been produced by the *Saccharomyces* Genome Deletion Project (SGDP) using five Yeast Knockout (YKO) Parental Strains derived from *Saccharomyces cerevisiae* S288C.¹ A PCR-based strategy was used to replace each ORF with a KanMX cassette containing unique tags, "barcodes", for each deletion. Four different mutant collections have been generated: haploids of mating types MATa and MATalpha, homozygous diploids for non-essential genes, and heterozygous diploids, which contain the essential and non essential ORFs.

Storage:

- 4 °C for up to one week
- -80 °C indefinitely

Product Description:

Culture of *S. cerevisiae* in YPD broth with an inert growth indicator + 15% glycerol.

Genotypes of Specific Yeast Reference Strains¹:

| | |
|--------|-----------------------------------|
| BY4730 | MATa leu2Δ0 met15Δ0 ura3Δ0 |
| BY4739 | MATa leu2Δ0 lys2Δ0 ura3Δ0 |
| BY4741 | MATa his3Δ1 leu2Δ0 met15Δ0 ura3Δ0 |
| BY4742 | MATa his3Δ1 leu2Δ0 lys2Δ0 ura3Δ0 |
| BY4743 | 4741/4742 |

Homozygous diploids are in the BY4743 background unless 4730/4739 is indicated.

Useful Websites and References:

Saccharomyces Genome Deletion Project, click [here](#).

1. Winzeler, E.A., et al., Functional characterization of the *Saccharomyces cerevisiae* Genome by gene deletion and parallel analysis, *Science*, 285:901-906, 1999.

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