

Yeast Tet-promoters Hughes (yTHC) Collection

Cat. #YSC1182

Applicable Catalog Numbers:

| Cat. # | Description |
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| YSC1182 | Yeast Tet-promoters Hughes (yTHC) Collection |
| YSC1180 | Yeast Tet-promoters Hughes (yTHC) Strain |
| YSC1210 | Yeast Tet-promoters Hughes Parental Strain - R1158 |

Product Description:

The creation of a genome-wide yeast deletion collection, click [here](#) to reveal that there are over 1000 protein-coding genes that are essential for viability. The function of many of these essential genes has yet to be defined. In part this is due to the difficulty of utilizing essential genes in functional assays. The Dharmacon Tet-promoters Yeast Collection from the Hughes Laboratory, University of Toronto, helps to overcome this barrier.

The Dharmacon Yeast Tet-promoters Hughes (yTHC) Collection contains over 800 essential yeast genes for which expression is regulated by doxycycline. The endogenous promoter has been replaced with a TET-titratable promoter in the genome. Thus, the expression of the gene can be switched off by the addition of doxycycline to the yeast's growth medium.

Quality Control:

All cultures are checked for growth prior to shipment.

Shipping and Storage:

yTHC constructs are distributed as cultures of *S. cerevisiae* in YPD broth + G418 (300 g/mL) + 15% glycerol. Individual constructs are shipped at room temperature. Collections are shipped in 96-well plate format on dry ice. Individual constructs and collections should be stored at -80 °C.

To allow any CO₂ that may have dissolved into the medium from the dry ice in shipping to dissipate, please store constructs at -80 °C for at least 48 hours before thawing.

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