

C. elegans Transcription Factors

Applicable Catalog Numbers:

Cat. #	Description
OCE4818	<i>C. elegans</i> Transcription Factor Clone - <i>E. coli</i>
OCE4819	<i>C. elegans</i> Transcription Factor Collection - <i>E. coli</i>
OCE4820	<i>C. elegans</i> Transcription Factor Strain - Yeast
OCE4821	<i>C. elegans</i> Transcription Factor Collection - Yeast

Product Description:

The *C. elegans* Transcription Factor Collection is a genomic resource for the discovery of transcription factor-promoter interactions by means of yeast one-hybrid (Y1H) screens (Vermeissen *et al*, 2007). Each prey construct contains one of 755 plasmid-encoded *C. elegans* transcription factor ORFs fused with the GAL4p activation domain. The expressed fusion-protein product will induce a GAL4-dependent reporter when the transcription factor domain binds to a promoter bait immediately upstream of the reporter (Deplancke *et al*, 2006). Each construct is available in yeast (Cat. #OCE4820 and OCE4821) for mating with bait strains or in an *E. coli* host (Cat. #OCE4818 and OCE4819) for transformation into bait strains.

Plasmid: pDEST_{AD}

Yeast strain: Y1Hα001 (MATα) is derived from Y187.

Genotype: *MAT ura3-52, his3-200, ade2-101, trp1-901, leu2-3, 112, met-, gal4Δ, gal80Δ, URA3::GAL1UAS-GAL1TATA-LacZ*
(see Vermeissen *et al*, 2007 Supplementary Methods for details)

Quality Control:

All cultures are checked for growth prior to shipment.

Shipping and Storage:

Individual *E. coli* constructs are shipped as bacterial cultures of *E. coli* in 2x LB broth (low salt)* medium with 8% glycerol, 100 µg/mL ampicillin. Individual yeast constructs are shipped as yeast cultures of Y1Hα001 in SD(-) tryptophan broth with 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.

*1x LB medium can be used instead of 2x LB broth medium.

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