



cDNA Library, S. cerevisiae, Log Phase

#02-701 500 ng

This cDNA library (plasmid DNA) is constructed from *Saccharomyces cerevisiae*, strain S288C- derived poly(A)⁺ RNA at the log phase by the Linker-Primer method (Ref.1) by Prof. H. Nojima of Osaka University. This library is unidirectionally cloned by using the oligo (dT)₁₈ linker primer which contains the restriction enzyme site of *Not* I, and *Bam*HI (*Bgl* II)-*Sma* I adaptor. The pLZ3 vector (shown below) used in this library can not replicate in *S. cerevisiae* but contains pUC ori for replication in *E. coli*

Application

PCR screening of known or unknown gene: Prepare the primers for the known or unknown gene (cDNA) and amplify the gene by PCR from this library followed by cloning to an appropriate vector. Standard amplifying conditions: 35 cycles of PCR reactions using 10-100 ng of cDNA as a template. (Change the quantity of template and the number of cycles depending on the expression rate of mRNA of the objective gene.)

Specification

Quantity: 500 ng (40 ng/ul, 13ul) in 10 mM Tris-HCl-1mM EDTA (pH 7.5)

Quality: 1) Number of independent clones: 3.6 x 10⁶

2) Average insert size: longer than 1 kb

Storage: -20°C

References: Construction of this library is described in Supplementary data of Ref.3

- 1. Kobori M *et al* "Large scale isolation of osteoclast-specific genes by an improved method involving the preparation of a subtracted cDNA library." *Genes Cells* **3**: 459-475 (1998) PMID: <u>9753427</u>
- Tanaka S and Nojima H "Nik1: a Nim1-like protein kinase of S. cerevisiae interacts with the Cdc28 complex and regulates cell cycle progression." Genes Cells 1, 905-921 (1996) PMID: 9077450
- Tougan T, Okuzaki D, Nojima H. Chum-RNA allows preparation of a high-quality cDNA library from a single-cell quantity of mRNA without PCR amplification. Nucleic. Acids Res., 36(15):e92, (2008) PMID: 18603591

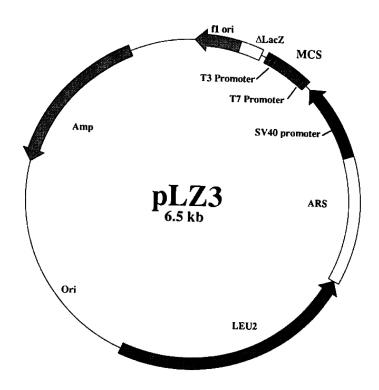
Note

- * This library is to be used only by the purchaser. It is not allowed to amplify and transfer the library to a third person.
- * **Related products**: human tissue specific cDNA libraries and cDNA libraries of model organisms (See HP).

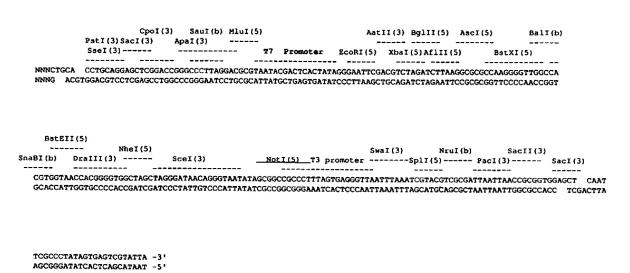




Fig. Structure of pLZ3 and the restriction sites.



; MCS(pLZ3)



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