



cDNA Library, *S. cerevisiae*, Log Phase

BACKGROUND

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 *NotI*, and *BamHI* (*BglII*)-*SmaI* adaptor.

The pLZ3 vector (shown below) used in this library can not replicate in *S. cerevisiae* but contains pUCori for replication in *E. coli*.

Applications:

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.)

Size:

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

Quality:

- 1) Number of independent clones: 3.6×10^6
- 2) Average insert size : longer than 1 kb

Storage:

Store at -20°C

References:

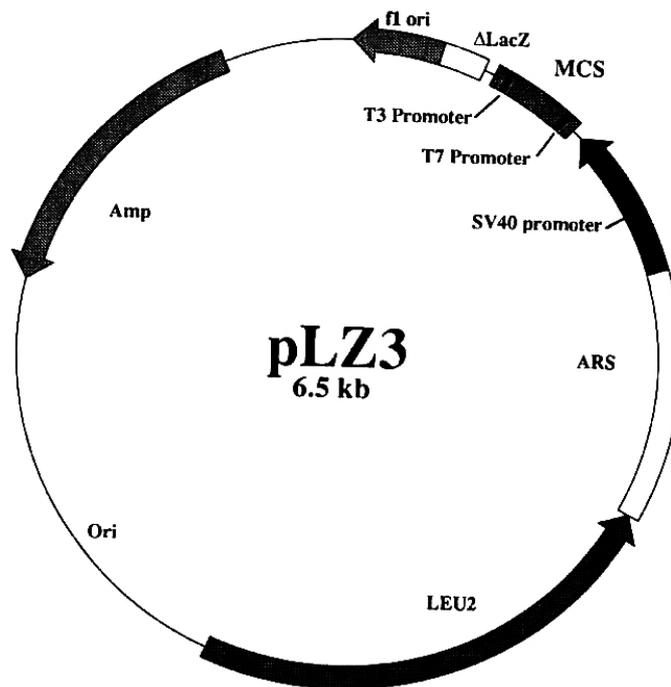
Construction of this library is described in Supplementary data of Ref.3

- 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: [9753427](#)
- 2) 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](#)
- 3) 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.



; MCS(pLZ3)

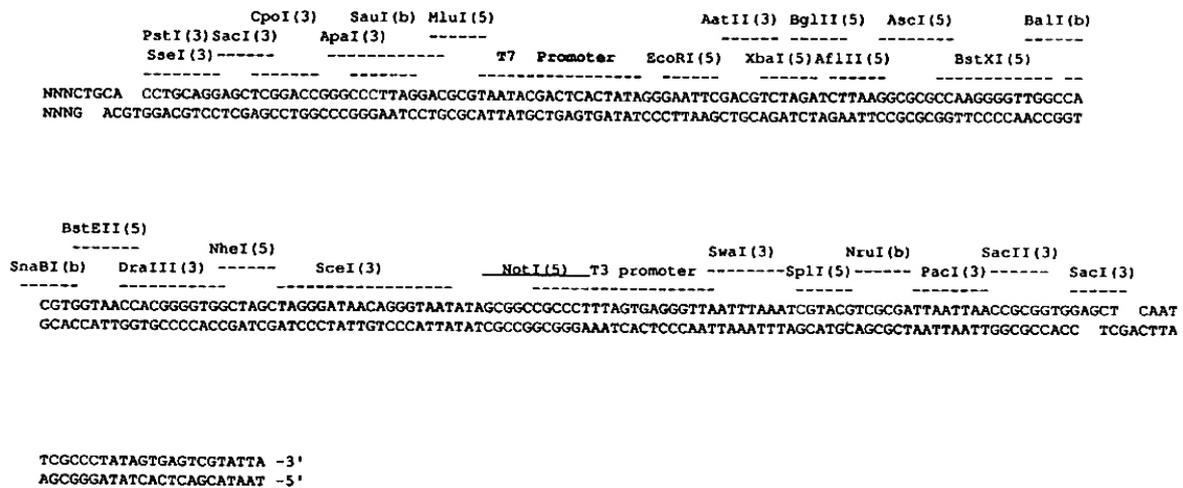


Fig. Structure of pLZ3 and the restriction sites.

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