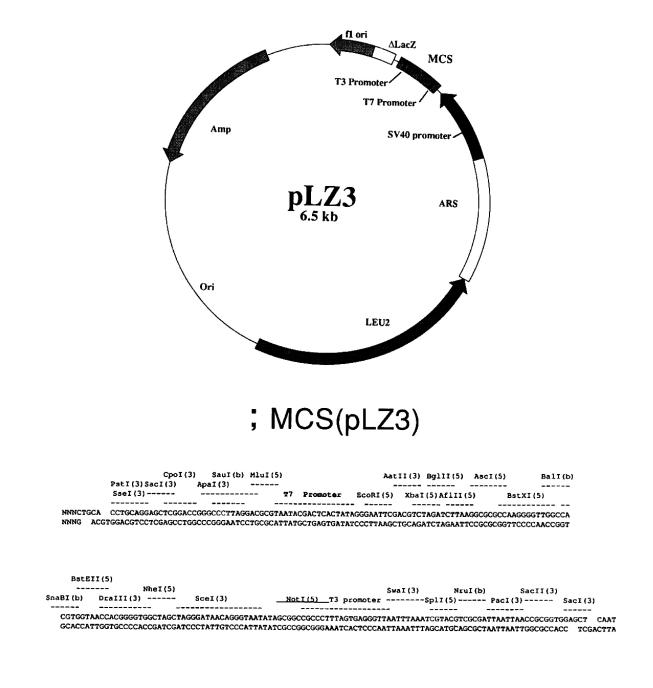


Product code	02-701
Size	500 ng
Storage	-20°C
Product	This cDNA library (plasmid DNA) is constructed from Saccharomyces cerevisiae, strain
Description	S288C derived poly(A) ⁺ RNA at the log phase by the Linker-Primer method (Ref.1) by Prof.
	H. Nojima of Osaka University. This library is unidirectionally cloned by using the oligo
	(dT) ₁₈ linker primer which contains the restriction enzyme site of <i>Not</i> I, and <i>Bam</i> HI (<i>Bgl</i> II)-
	Sma I adaptor.
	The pLZ3 vector (shown below) used in this library can not replicate in S. cerevisiae but
	contains pUCori for replication in <i>E. coli</i>
Concentration	40 ng/µl
Buffer	10 mM Tris-HCl-1mM EDTA (pH 7.5)
Quality	1. Number of independent clones: $3.6 \ge 10^6$
	2. Average insert size : longer than 1 kb
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.)
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>
	2. Tanaka S and Nojima H "Nik1: a Nim1-like protein kinase of <i>S. cerevisiae</i> interacts with
	the Cdc28 complex and regulates cell cycle progression." Genes Cells 1, 905-921 (1996)
	PMID: <u>9077450</u>
	3. Tougan T, Okuzaki D, <u>Nojima H</u> . 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: <u>18603591</u>
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 <u>HP</u>).
Please note: All pro	ducts are FOR RESEARCH USE ONLY. NOT FOR USE HUMAN and IN DIAGNOSTIC
PROCEDURES. NO	OT FOR MILITARY USE.

cDNA Library, S. cerevisiae, Log Phase



Data Image: 02-701 cDNA Library, *S. cerevisiae*, Log Phase



TCGCCCTATAGTGAGTCGTATTA -3' AGCGGGATATCACTCAGCATAAT -5'

Fig. Structure of pLZ3 and the restriction sites.