

LRCX Retroviral Vector Set

Catalog No.	Amount	Lot Number
631511	Each	Specified on product label.

Description

A system composed of three retroviral cloning vectors, as well as 5' and 3' LNCX sequencing/PCR primers. The system is suitable for use with the Retro-X™ system (Cat No. 631508). The pLNCX2, pLPCX, and pLHCX retroviral vectors contain a gene encoding resistance to neomycin, puromycin, or hygromycin, respectively. With these vectors, a gene of interest is expressed under control of the CMV promoter. The vectors are excellent tools for expression studies in primary cell lines, explants, or whole animals.

Package Contents

- 20 µg pLNCX2 Retroviral Vector (500 ng/µl)
- 20 µg pLHCX Retroviral Vector (500 ng/µl)
- 20 µg pLPCX Retroviral (500 ng/µl)
- 100 µl 5' LNCX Seq/PCR Primers (20 µM)
- 100 µl 3' LNCX Seq/PCR Primers (20 µM)

Storage Conditions

- Store plasmids and primers at –20°C.
- Spin briefly to recover contents.
- Avoid repeated freeze/thaw cycles.

Expiration Date

- Specified on product label.

Storage Buffer

- 10 mM Tris-HCl (pH 8.0), 1 mM EDTA (pH 8.0)

Shipping Conditions

- Dry ice

Product Documents

Documents for our products are available for download at takarabio.com/manuals

The following documents apply to this product:

- Retroviral Gene Transfer and Expression User Manual
- LRCX Retroviral Vector Information

Propagation in *E. coli*

- Recommended host strain: Stellar™ Competent Cells (Cat. No. 636763)
- Selectable marker: Plasmids confer resistance to ampicillin (100 µg/ml) in *E. coli* hosts.
- *E. coli* replication origin: pUC

Takara Bio USA, Inc.
2560 Orchard Parkway, San Jose, CA 95131, USA
U.S. Technical Support: technical_support@takarabio.com

United States/Canada 800.662.2566 (011623)	Asia Pacific +1.650.919.7300	Europe +33.(0)1.3904.6880	Japan +81.(0)77.565.6999
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Quality Control Data

Plasmid Identity & Purity

- Digestion with the indicated restriction enzymes produced fragments of the indicated sizes on a 0.8% agarose/EtBr gel:

Vector	Enzymes	Size (kb)
pLNCX2 Retroviral Vector	EcoRI	1.6 kb & 4.5 kb
	EcoRI & XbaI	1.6 kb, 1.9 kb, & 2.6 kb
pLHCX Retroviral Vector	BglII	6.8 kb
	EcoRI	0.3 kb, 1.6 kb, & 4.9 kb
pLPCX Retroviral Vector	EcoRI & XbaI	0.3 kb, 1.0 kb, 1.2 kb, 1.6 kb, & 2.7 kb
	EcoRI	6.3 kb
	EcoRI & XbaI	0.4 kb & 5.9 kb

- Vector identity was confirmed by sequencing.
- A₂₆₀/A₂₈₀: 1.8–2.0

Primer Identity & Purity

- The primers were tested by sequencing using a positive control template.

It is certified that this product meets the above specifications, as reviewed and approved by the Quality Department.

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CATALOG NO.

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NOTICE TO PURCHASER:

Our products are to be used for **Research Use Only**. They may not be used for any other purpose, including, but not limited to, use in humans, therapeutic or diagnostic use, or commercial use of any kind. Our products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products or to provide a service to third parties without our prior written approval.

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U.S. Technical Support: technical_support@takarabio.com

United States/Canada

800.662.2566

Asia Pacific

+1.650.919.7300

Europe

+33.(0)1.3904.6880

Japan

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