

Retro-X™ Q Vector Set

Catalog No.	Amount	Lot Number
631516	Each	Specified on product label.

Description

The Retro-X Q Vector set provides four retroviral expression vectors that are optimized to eliminate promoter interference from the upstream LTR in the integrated provirus. Each vector expresses a target gene along with a different selection marker from a single, bicistronic message. The CMV promoter present in the 5' LTR produces high viral titers in standard packaging cell lines. A LacZ Control Vector pQCLIN is included in the set. Also included are Retro-X Q Primers that encode sequences flanking the multiple cloning site.

Package Contents

- 20 µg pQCXIN Retroviral Vector (500 ng/µl)
- 20 µg pQCXIH Retroviral Vector (500 ng/µl)
- 20 µg pQCXIP Retroviral Vector (500 ng/µl)
- 20 µg pQCLIN Retroviral Control Vector (500 ng/µl)
- 100 µl 5' pQC Seq/PCR Primers (20 µM)
- 100 µl 3' pQC 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
- Retro-X Q Vector Information

Takara Bio USA, Inc.

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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

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	Fragments
pQCXIN Retroviral Vector	BamHI	7.4 kb
	StuI	2.8 kb & 4.6 kb
pQCXIH Retroviral Vector	AgeI	7.8 kb
	StuI	3.2 kb & 4.6 kb
	EcoRI	0.9 kb & 6.9 kb
pQCXIP Retroviral Vector	AgeI	7.2 kb
	StuI	1.0 kb, 1.6 kb, & 4.6 kb
pQCLIN Retroviral Control Vector	StuI	10.8 kb
	EcoRV	3.8 kb & 6.9 kb

- Vector identity was confirmed by sequencing.
- A_{260}/A_{280} : 1.8–2.0

Primer Identity & Purity

The primers were tested by amplification of the insert from a positive control template. When the PCR product was examined after electrophoresis on a 1% agarose Et/Br gel, a clear band of the correct size was observed.

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

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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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STATEMENT 8

For Research Use Only, Not for Use in Humans.

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