

Retro-X™ Q Vector Set

Catalog No.

631516

Amount

Each

Lot Number

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.

Shelf Life

- 1 year from date of receipt under proper storage conditions.

Storage Buffer

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

Shipping Conditions

- Dry ice (–70°C)

Product Documents

Documents for Clontech® products are available for download at www.clontech.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	Enzyme(s)	Size (kb)
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.
- A₂₆₀/A₂₈₀: 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.

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STATEMENT 8

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