

PRODUCT: pRetroQ-mCherry-C1 Vector**CATALOG NO.**
632567**AMOUNT**
10 µg**DESCRIPTION**

The **pRetroQ-mCherry-C1 Vector** is a high-titer, self-inactivating retroviral expression vector designed to eliminate promoter interference from the upstream LTR in the integrated provirus. The vector encodes *mCherry*; a bright red fluorescent protein tag that was derived from a monomeric mutant of DsRed (mRFP1) by site-directed mutagenesis (1). Inserting a cDNA in the MCS downstream of the mCherry coding sequence joins your protein of interest to the C-terminus of the tag, and allows the fusion protein to be tracked and studied in transduced cells. To package the vector into high-titer, replication-incompetent retrovirus, we recommend using the **Retro-X™ Universal Packaging System** (Cat. No. 631530).

LOT NUMBER

Specified on product label.

STORAGE CONDITIONS

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

STORAGE BUFFER

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

SHELF LIFE

1 year from date of receipt under proper storage conditions.

SHIPPING CONDITIONS

Dry ice (–70°C)

PLASMID SIZE: 7.6 kb**CLONING SITES:** Apal, BamHI, BglII, BstBI, EcoRI, Sall, XhoI**ANTIBIOTIC RESISTANCE**Ampicillin (100 µg/ml, for propagation in *E. coli*)**PACKAGE CONTENTS**

- 10 µg pRetroQ-mCherry-C1 Vector (500 ng/µl)

USER MANUALS

User manuals for this product are available for download at www.clontech.com/manuals. The following user manuals apply to this product:

- Retroviral Gene Transfer and Expression User Manual (PT3132-1)
- pRetroQ-mCherry-C1 Vector Information Packet (PT5097-5)

FOR RESEARCH USE ONLY**QUALITY CONTROL DATA**

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

| <u>Plasmid</u> | <u>Enzymes</u> | <u>Fragment(s)</u> |
|--------------------|----------------|--------------------------------|
| pRetroQ-mCherry-C1 | XhoI | 7.6 kb |
| | StuI | 4.7, 1.46, 0.65, 0.55 & 0.2 kb |

- The A_{260}/A_{280} ratio of the plasmid is 1.8 – 2.0.

Reference

1. Campbell, R. E. *et al.* (2002) *Proc. Nat. Acad. Sci.* **99**(12):7877–7882.

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pRetroQ-mCherry-C1 Vector

CATALOG NO.

632567

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STATEMENT 8

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STATEMENT 44

The DsRed-Monomer and the Fruit Fluorescent Proteins are covered by one or more of the following U.S. Patents: 7,005,511; 7,157,566; 7,393,923 and 7,250,298.

STATEMENT 72

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