**PRODUCT:** pRetroQ-mCherry-C1 Vector

**CATALOG NO.** 632567  **AMOUNT** 10 µg

**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*)

**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).

**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](http://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:

<table>
<thead>
<tr>
<th>Plasmid</th>
<th>Enzymes</th>
<th>Fragment(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>pRetroQ-mCherry-C1</td>
<td>XhoI</td>
<td>7.6 kb</td>
</tr>
<tr>
<td></td>
<td>StuI</td>
<td>4.7, 1.46, 0.65, 0.55 &amp; 0.2 kb</td>
</tr>
</tbody>
</table>

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

**Reference**
Notice to Purchaser

pRetroQ-mCherry-C1 Vector

CATALOG NO.
632567

NOTICE TO PURCHASER:

Clontech products are to be used for research purposes only. They may not be used for any other purpose, including, but not limited to, use in drugs, in vitro diagnostic purposes, therapeutics, or in humans. Clontech 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 prior written approval of Clontech Laboratories, Inc.

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STATEMENT 8
For Research Use Only, Not for Use in Humans.

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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<table>
<thead>
<tr>
<th>United States/Canada</th>
<th>Asia Pacific</th>
<th>Europe</th>
<th>Japan</th>
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<tbody>
<tr>
<td>800.662.2566</td>
<td>+1.650.919.7300</td>
<td>+33.(0)1.3904.6880</td>
<td>+81.(0)77.543.6116</td>
</tr>
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