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PRODUCT: pAcGFP1-Mito Vector

CATALOG NO.
632432

AMOUNT
20 µg

DESCRIPTION

pAcGFP1-Mito encodes a humanized green fluorescent protein (GFP) derived from *Aequorea coerulescens*. A mitochondrial targeting sequence from the precursor protein of human cytochrome c oxidase subunit VIII is fused to the N-terminus of the fluorescent protein. The fluorescence from pAcGFP1-Mito expression can be observed within the mitochondrial matrix inside the inner membrane. pAcGFP1-Mito can be used for specific labeling of mitochondria in living and fixed cells.

LOT NUMBER

Specified on product label.

STORAGE BUFFER

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

STORAGE CONDITIONS

- Store plasmid 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.

SHIPPING CONDITIONS

Blue ice (4°C) or
Dry ice (-70°C)

CONCENTRATION: 500 ng/µl

PLASMID SIZE: 4.8 kb

ANTIBIOTIC RESISTANCE

Kanamycin (50 µg/ml) for propagation in *E. coli* DH5α

PACKAGE CONTENTS

1 tube of pAcGFP1-Mito Vector

FOR RESEARCH USE ONLY

OTHER

Vector Information Packet (PT3730-5)

QUALITY CONTROL DATA

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

Enzyme(s)	Fragment(s)
<i>Ase</i> I	4.8 kb
<i>Msc</i> I	2.7 & 2.1 kb

- A_{260}/A_{280} : 1.8 – 2.0

APPROVED BY: 

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This product is the subject of U.S. patents.

The CMV promoter is covered under U.S. Patent Nos. 5,168,062 and 5,385,839 assigned to the University of Iowa Research Foundation.

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(PA742305)



Clontech

United States/Canada
800.662.2566

Asia Pacific
+1.650.919.7300

Europe
+33.(0)1.3904.6880

Japan
+81.(0)77.543.6116

Clontech Laboratories, Inc.
A Takara Bio Company
1290 Terra Bella Ave.
Mountain View, CA 94043
Technical Support (US)
E-mail: tech@clontech.com
www.clontech.com