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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 coerulea*. 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.



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