

## pPAmCherry-Mito Vector

**Catalog No.**  
632591

**Amount**  
10 µg

**Lot Number**  
Specified on product label.

### Description

pPAmCherry-Mito Vector is a mammalian expression vector encoding PAmCherry, a photoactivatable mutant of the fluorescent protein mCherry, fused to the mitochondrial targeting sequence derived from the precursor subunit VIII of human cytochrome C oxidase. PAmCherry is non-fluorescence until photoactivated by a short exposure to light at a wavelength between 350 nm and 400 nm. The excitation/emission wavelengths of photoactivated PAmCherry are 564 nm and 595 nm.

### Package Contents

- 20 µl pPAmCherry-Mito Vector (500 ng/µl)

### Storage Conditions

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

### Expiration Date

- Specified on product label.

### Storage Buffer

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

### Concentration

- 500 ng/µl

### Shipping Conditions

- Dry ice

### Product Documents

Documents for our products are available for download at [takarabio.com/manuals](http://takarabio.com/manuals)

The following documents apply to this product:

- pPAmCherry-Mito Vector Information
- pPAmCherry-Mito Vector Sequence in GenBank Format

### Propagation in *E. coli*

- Recommended host strain: Stellar™ Competent Cells (Cat. No. 636763). Single-stranded DNA production requires strains containing an F plasmid, such as JM109 or XL1-Blue.
- Selectable marker: Plasmids confer resistance to kanamycin (50 µg/ml) in *E. coli* hosts.
- *E. coli* replication origin: pUC

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#### Takara Bio USA, Inc.

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U.S. Technical Support: [technical\\_support@takarabio.com](mailto:technical_support@takarabio.com)

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Japan  
+81.(0)77.565.6999

## 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:

| <b>Vector</b>   | <b>Enzymes</b> | <b>Fragments</b> |
|-----------------|----------------|------------------|
| pPAmCherry-Mito | BamHI          | 4.7 kb           |
|                 | NheI/NotI      | 0.8 & 3.9 kb     |

- Vector identity was confirmed by sequencing.
- $A_{260}/A_{280}$ : 1.8–2.0

It is certified that this product meets the above specifications, as reviewed and approved by the Quality Department.

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4/1/2024

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# Notice to Purchaser



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## STATEMENT 69

The DsRed-Monomer, DsRed Express, E2-Crimson and the Fruit Fluorescent Proteins are covered by one or more of the following U.S. Patents: 7,250,298; 7,671,185; 7,910,714; 8,664,471 and 8,679,749.

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