

pPAmCherry-Mito Vector

Catalog No.
632591

Amount
10 ug

Lot Number
Specified on product label.

Product Information

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.

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.

Shelf Life

- 1 year from date of receipt under proper storage conditions.

Storage Buffer

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

Concentration

- 500 ng/µl

Shipping Conditions

- Dry ice (-70°C).

Product Documents

Documents for Clontech products are available for download at www.clontech.com/manuals

The following documents apply to this product:

- pPAmCherry-Mito Vector Information

Clontech Laboratories, Inc.

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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

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:

Vector	Enzyme(s)	Size (kb)
pPAmCherry-Mito	BamHI	4.7 kb
	NheI/NotI	0.8 & 3.9 kb

- Vector identity was confirmed by sequencing.
- A₂₆₀/A₂₈₀: 1.8–2.0

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STATEMENT 72

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