

## pPAmCherry-N1 Vector

**Catalog No.**  
632584

**Amount**  
10 ug

**Lot Number**  
Specified on product label.

### Product Information

pPAmCherry-N1 Vector is a mammalian expression vector encoding PAmCherry, a photoactivatable mutant of the fluorescent protein mCherry. 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.

Genes cloned into the MCS will be expressed as fusions to the N-terminus of PAmCherry if they are in the same reading frame as PAmCherry and there are no intervening stop codons.

### Contents

- 20 µl pPAmCherry-N1 Vector (500 ng/µl)

### Storage Conditions

- Store at  $-20^{\circ}\text{C}$ .
- 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 ( $-70^{\circ}\text{C}$ ).

### Product Documents

Documents for Clontech products are available for download at [www.clontech.com/manuals](http://www.clontech.com/manuals)  
The following documents apply to this product:

- pPAmCherry-N1 Vector Information

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#### Clontech Laboratories, Inc.

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(040512)			

## 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:

<b>Vector</b>	<b>Enzyme(s)</b>	<b>Size (kb)</b>
pPAmCherry-N1	BamHI	4.7 kb
	NheI/NotI	0.8 & 3.9 kb

- Vector identity was confirmed by sequencing.
- A<sub>260</sub>/A<sub>280</sub>: 1.8–2.0

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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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4/5/2012

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