pPAmCherry-Mem Vector

Catalog No. 632588
Amount 10 µg
Lot Number Specified on product label.

Product Information
pPAmCherry-Mem Vector is mammalian expression vector encoding a fusion protein of PAmCherry and the N-terminal 20 amino acids of neuromodulin (GAP-43). PAmCherry is 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. The GAP-43 fragment contains a signal for posttranslational palmitoylation of cysteins 3 and 4 that targets the fusion protein to the plasma membrane.

Contents
- 20 µl pPAmCherry-Mem 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-Mem Vector Information
Certificate of Analysis
pPAmCherry-Mem Vector

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:

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<th>Vector</th>
<th>Enzyme(s)</th>
<th>Size (kb)</th>
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<tbody>
<tr>
<td>pPAmCherry-Mem</td>
<td>BamHI</td>
<td>4.8 kb</td>
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<tr>
<td></td>
<td>NheI/NotI</td>
<td>0.9 &amp; 3.9 kb</td>
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- Vector identity was confirmed by sequencing.
- $A_{260}/A_{280}$: 1.8–2.0
Notice to Purchaser

pPAmCherry-Mem Vector

CATALOG NO.
632588

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STATEMENT 44

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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<thead>
<tr>
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<th>Asia Pacific</th>
<th>Europe</th>
<th>Japan</th>
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<td>+33.(0)1.3904.6880</td>
<td>+81.(0)77.543.6116</td>
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