pLVX-PAmCherry-C1 Vector

Description
pLVX-PAmCherry-C1 Vector is an HIV-1-based, lentiviral expression vector. Lentiviral particles derived from the vector allow you to infect cells and express your gene of interest fused to 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 C-terminus of PAmCherry if they are in the same reading frame as PAmCherry and there are no intervening stop codons.

Package Contents
- 20 µl pLVX-PAmCherry-C1 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 our products are available for download at takarabio.com/manuals
The following documents apply to this product:
- pLVX-PAmCherry-C1 Vector Information
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 ampicillin (100 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:

<table>
<thead>
<tr>
<th>Vector</th>
<th>Enzyme(s)</th>
<th>Size (kb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>pLVX-PAmCherry-C1</td>
<td>BamHI</td>
<td>8.8 kb</td>
</tr>
<tr>
<td></td>
<td>NheI</td>
<td>3.5 &amp; 5.3 kb</td>
</tr>
</tbody>
</table>

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

It is certified that this product meets the above specifications, as reviewed and approved by the Quality Department.
pLVX-PAmCherry-C1 Vector

CATALOG NO.
632587

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Living Colors Fluorescent Protein Products:

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