pLVX-AcGFP1-C1 Vector

Catalog No.  632155
Amount  10 µg
Lot Number  Specified on product label.

Description
The pLVX-AcGFP1-C1 vector is an HIV-1 based lentiviral expression vector that can produce recombinant lentivirus that efficiently transduces both dividing and non-dividing mammalian cells. This vector expresses a variant of the green fluorescent protein (GFP) from *Aequorea coerulescens*. pLVX-AcGFP1-C1 allows cloning of a cDNA into the multiple cloning site (MCS) downstream of the coding sequence for AcGFP1. The cDNA is subsequently expressed as a fusion to the C-terminus of the AcGFP1 protein. Thus, this vector allows the expression of fluorescent fusion proteins in difficult-to-transfect cells. It also contains a puromycin selection marker for selection of stable transductants. The unmodified vector will express AcGFP1 protein and may be used to produce marker virus to optimize infection protocols.

Package Contents
- 10 µg pLVX-AcGFP1-C1 Vector (500 ng/µl)

Storage Conditions
- Store plasmids 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](http://takarabio.com/manuals)
The following documents apply to this product:
- pLVX-AcGFP1-C1 Vector Information
Propagating in *E. coli*

- Recommended host strain: Stellar™ Competent Cells (Cat. No. 636763).
- 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>Fragment(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>pLVX-AcGFP1-C1</td>
<td>BamHI</td>
<td>8.8 kb</td>
</tr>
<tr>
<td></td>
<td>AccI</td>
<td>1.1, 1.3, 1.5, 2.2 &amp; 2.7 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.
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STATEMENT 39

AcGFP is covered by U.S. Patent No. 7,432,053.

STATEMENT 72

Living Colors Fluorescent Protein Products:

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