**pLVX-AcGFP1-N1 Vector**

**Catalog No.**
632154

**Amount**
10 µg

**Lot Number**
Specified on product label.

**Description**

The pLVX-AcGFP1-N1 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-N1 allows cloning of a cDNA into the multiple cloning site (MCS) upstream of the coding sequence for AcGFP1. The cDNA is subsequently expressed as a fusion to the N-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-N1 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

The following documents apply to this product:

- pLVX-AcGFP1-N1 Vector Information
**Propagation 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-N1</td>
<td>BamHI</td>
<td>8.8 kb</td>
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<tr>
<td></td>
<td>Accl</td>
<td>0.8, 1.1, 1.3, 2.2 &amp; 3.4 kb</td>
</tr>
</tbody>
</table>

- Vector identity was confirmed by sequencing.
- A_{260}/A_{280}: 1.8–2.0

It is certified that this product meets the above specifications, as reviewed and approved by the Quality Department.
Notice to Purchaser

pLVX-AcGFP1-N1 Vector

CATALOG NO.

632154

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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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<table>
<thead>
<tr>
<th>United States/Canada</th>
<th>Asia Pacific</th>
<th>Europe</th>
<th>Japan</th>
</tr>
</thead>
<tbody>
<tr>
<td>800.662.2566</td>
<td>+1.650.919.7300</td>
<td>+33.(0)1.3904.6880</td>
<td>+81.(0)77.565.6999</td>
</tr>
</tbody>
</table>
STATEMENT 55

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