

Certificate of Analysis

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 coerulea*. 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:

- Lenti-X Lentiviral Expression Systems User Manual
- pLVX-AcGFP1-N1 Vector Information

Takara Bio USA, Inc.

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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:

| Vector | Enzyme(s) | Fragment(s) |
|----------------|------------------|-----------------------------|
| pLVX-AcGFP1-N1 | BamHI | 8.8 kb |
| | AccI | 0.8, 1.1, 1.3, 2.2 & 3.4 kb |

- 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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2/19/2020

STATEMENT K11

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STATEMENT 55

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