

pLVX-AmCyan1-C1 Vector

Catalog No.
632557

Amount
10 µg

Lot Number
Specified on product label.

Description

This lentiviral expression vector encodes an *AmCyan1* fluorescent protein tag. The protein is a human codon-optimized variant (Curr. Biol, 1996) of the *Anemonia majano cyan* fluorescent protein engineered for increased brightness and higher expression in mammalian cells. Inserting a cDNA in the MCS downstream of the *AmCyan1* coding sequence joins your protein of interest to the C-terminus of *AmCyan1* and allows it to be tracked and studied in transduced cells. To package the vector into high-titer, replication-incompetent lentivirus, we recommend using the Lenti-X™ HTX Packaging System (Cat. No. 631247) and the Lenti-X 293T Cell Line (Cat. No. 632180). The resulting lentivirus can then be used to transduce virtually any mammalian cell type.

Package Contents

- 10 µg pLVX-AmCyan1-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

The following documents apply to this product:

- Lenti-X Lentiviral Expression Systems User Manual
- pLVX-AmCyan1-C1 Vector Information

Takara Bio USA, Inc.

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Certificate of Analysis

Cat. No. 632557

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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

References

Haas, J., Park, E. C. & Seed, B. Codon usage limitation in the expression of HIV-1 envelope glycoprotein. *Curr. Biol.* **6**, 315–24 (1996).

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-AmCyan1-C1	XhoI	8.8 kb
	AccI	2.7, 2.2, 1.5, 1.3, & 1.1 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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Our products are to be used for **Research Use Only**. They may not be used for any other purpose, including, but not limited to, use in humans, therapeutic or diagnostic use, or commercial use of any kind. Our products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products or to provide a service to third parties without our prior written approval.

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STATEMENT K11

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STATEMENT 55

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