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:

- pLVX-AmCyan1-C1 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

References


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-AmCyan1-C1</td>
<td>XhoI</td>
<td>8.8 kb</td>
</tr>
<tr>
<td></td>
<td>AccI</td>
<td>2.7, 2.2, 1.5, 1.3, &amp; 1.1 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-AmCyan1-C1 Vector

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632557

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STATEMENT K11

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STATEMENT 55

cPPT Element. This product and its use are the subject to one or more of the following U.S. Pat. 8,093,042 and foreign equivalents. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The buyer cannot disclose information, sell or otherwise transfer this product, its components or materials made using this product or its components to a third party or otherwise use this product or its components or materials made using this product or its components for any commercial purposes. If the buyer is not willing to accept the limitations of this limited use statement, Takara Bio USA, Inc. is willing to accept return of the product with a full refund. For information on purchasing a license to the DNA-Flap technology for purposes other than research, contact the Transfer of Technology Office, Institut Pasteur, 28 rue du Docteur Roux, 75 724 Paris Cedex 15 (www.pasteur.fr).

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