pLVX-ZsGreen1-C1 Vector

<table>
<thead>
<tr>
<th>Catalog No.</th>
<th>Amount</th>
<th>Lot Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>632566</td>
<td>10 µg</td>
<td>Specified on product label.</td>
</tr>
</tbody>
</table>

**Description**

This lentiviral expression vector encodes the ZsGreen1 fluorescent protein tag. The coding sequence for this very bright green fluorescent protein (2.5x brighter than EGFP) was modified to include human codon usage preferences, which allow improved expression in mammalian cells (Matz et al. 1999). Inserting a cDNA in the MCS downstream of the ZsGreen1 coding sequence joins your protein of interest to the C-terminus of the tag and allows the fusion protein 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-ZsGreen1-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-ZsGreen1-C1 Vector Information
Certificate of Analysis

pLVX-ZsGreen1-C1 Vector

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-ZsGreen1-C1</td>
<td>XhoI</td>
<td>8.8 kb</td>
</tr>
<tr>
<td></td>
<td>AccI</td>
<td>2.7, 2.2, 1.3, 1.1, 0.97 &amp; 0.5 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-ZsGreen1-C1 Vector

CATALOG NO.
632566

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11/13/2019
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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