pLVX-DsRed-Express2-N1 Vector

**Catalog No.** 632560
**Amount** 10 µg
**Lot Number** Specified on product label.

**Description**
This lentiviral expression vector encodes a *DsRed-Express2* fluorescent protein tag. The protein is a rapidly maturing tetrameric fluorescent protein from *Discosoma sp.* that has minimal cytotoxicity, high solubility, and exhibits strong and stable expression mammalian cells (Nat. Methods, 2008). Inserting a cDNA in the MCS upstream of the *DsRed-Express2* coding sequence joins your protein of interest to the N-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-DsRed-Express2-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-DsRed-Express2-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

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-DsRed-Express2-N1</td>
<td>XhoI</td>
<td>8.7 kb</td>
</tr>
<tr>
<td></td>
<td>AccI</td>
<td>3.4, 2.2, 1.3, 1.1 &amp; 0.8 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-DsRed-Express2-N1 Vector

CATALOG NO.

632560

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**STATEMENT 24**

The RCFPs (including DsRedExpress, DsRedExpress2, and E2-Crimson) are covered by one or more of the following U.S. Patent Nos. 7,166,444; 7,157,565; 7,217,789; 7,150,979; 8,093,450 and 8,461,769.

**STATEMENT 72**

Living Colors Fluorescent Protein Products:

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STATEMENT 55

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