pLVX-tdTomato-N1 Vector

<table>
<thead>
<tr>
<th>Catalog No.</th>
<th>Amount</th>
<th>Lot Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>632563</td>
<td>10 µg</td>
<td>Specified on product label.</td>
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</tbody>
</table>

**Description**

This lentiviral expression vector encodes the tdTomato fluorescent protein tag. This very bright red fluorescent protein is a genetic fusion of two copies of dTomato (Proc. Nat. Acad. Sci., 2002), which was specifically designed for low aggregation. It adopts an intramolecular tandem dimer structure that contributes to its exceptional brightness, yet it behaves like a monomer. Inserting a cDNA in the MCS upstream of the tdTomato 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-tdTomato-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](http://takarabio.com/manuals)

The following documents apply to this product:

- pLVX-tdTomato-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-tdTomato-N1</td>
<td>XhoI</td>
<td>9.5 kb</td>
</tr>
<tr>
<td></td>
<td>AccI</td>
<td>4.15, 2.2, 1.3, 1.1 &amp; 0.75 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-tdTomato-N1 Vector

CATALOG NO.

632563

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STATEMENT 44

The DsRed-Monomer and the Fruit Fluorescent Proteins are covered by one or more of the following U.S. Patents: 7,005,511; 7,157,566; 7,393,923 and 7,250,298.

STATEMENT 72

Living Colors Fluorescent Protein Products:

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