

pLVX-DsRed-Monomer-N1 Vector

Catalog No.
632152

Amount
10 µg

Lot Number
Specified on product label.

Description

The pLVX-DsRed-Monomer-N1 vector is an HIV-1 based lentiviral expression vector that can produce recombinant lentivirus that efficiently transduces both dividing and non-dividing mammalian cells. This vector expresses a monomeric mutant of the *Discosoma sp.* red fluorescent protein (DsRed). pLVX-DsRed-Monomer-N1 allows cloning of a cDNA into the multiple cloning site (MCS) upstream of the DsRed-Monomer coding sequence. The cDNA is subsequently expressed as a fusion to the N-terminus of the DsRed-Monomer protein. Thus, this vector allows the expression of fluorescent fusion proteins in difficult-to-transfect cells. It also contains a puromycin selection marker for selection of stable transductants. The unmodified vector will express DsRed-Monomer protein and may be used to produce marker virus to optimize infection protocols.

Package Contents

- 10 µg pLVX-DsRed-Monomer-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:

- Lenti-X Lentiviral Expression Systems User Manual
- pLVX-DsRed-Monomer-N1 Vector Information

Takara Bio USA, Inc.

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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

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-DsRed-Monomer-N1 Vector	BamHI	8.8 kb
	AccI	0.8, 1.1, 1.3, 2.2 and 3.4 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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NOTICE TO PURCHASER:

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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