

pLVX-mCherry-Actin Vector

Catalog No.
631078

Amount
10 µg

Lot Number
Specified on product label.

Description

This lentiviral expression vector encodes human β -actin fused to mCherry, an extremely bright red fluorescent protein that was derived from mRFP1, a monomeric mutant of DsRed, by site-directed mutagenesis. pLVX-mCherry-Actin constitutively expresses the mCherry-Actin fusion protein from P_{CMVIE} when transduced into target cells. The mCherry-Actin fusion protein is incorporated into actin filaments and allows for visualization of actin-containing subcellular structures in live cells as well as fixed cells. pLVX-mCherry-Actin is not designed to be used as a cloning vector.

To package the vector into high-titer, replication-incompetent lentiviral particles, we recommend using the Lenti-X™ HT Packaging System (Cat. No. 632160) 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-mCherry-Actin 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-mCherry-Actin Vector Information

Takara Bio USA, Inc.

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Certificate of Analysis

Cat. No. 631078

pLVX-mCherry-Actin 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

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-mCherry-Actin Vector | EcoRI | 9.89 kb |
| | Acc65I | 6.15 & 3.74 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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STATEMENT 44

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STATEMENT 72

Living Colors Fluorescent Protein Products:

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11/15/2019

STATEMENT 55

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