

Certificate of Analysis

pLVXS-sgRNA-mCherry-hyg Vector

Catalog No.

632649 (Not sold separately)

Sold as a part of 632646

Amount

10 µl

Lot Number

Specified on product label

Description

The pLVXS-sgRNA-mCherry-hyg Vector is a self-inactivating lentiviral vector used to generate high-titer lentivirus for efficient delivery of the pooled genome-wide sgRNA library in combination with the Guide-it™ CRISPR Genome-Wide sgRNA Library System. This vector contains both mCherry and hygromycin markers expressed from an IRES-linked bicistronic expression cassette. The cloning site features a BsmBI restriction site to enable insertion of candidate single guide RNAs (sgRNAs) for downstream assays. The vector is used to confirm hits generated during sgRNA library screens.

Package Contents

- 10 µl pLVXS-sgRNA-mCherry-hyg Vector (0.5 µg/µl)

Storage Conditions

- Store plasmids at –20°C.
- Spin briefly to recover contents.
- Avoid repeated freeze-thaw cycles.

Expiration Date

- Specified on product label.

Storage Buffer

- 10 mM Tris-HCl (pH 8.0), 1 mM EDTA (pH 8.0)

Shipping Conditions

- Dry ice

Product Documents

Documents for our products are available for download at takarabio.com/manuals

The following documents apply to this product:

- Guide-it CRISPR Genome-Wide sgRNA Library System User Manual
- pLVXS-sgRNA-mCherry-hyg Vector Map

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

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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	Fragments
pLVXS-sgRNA-mCherry-hyg	PmeI	9.1 kb
	NdeI	6.6 kb, 2.6 kb

- 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.

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