

pLVX-ZsGreen1-N1 Vector

Catalog No.	Amount	Lot Number
632565	10 µg	Specified on product label.

Description

This lentiviral expression vector encodes the *ZsGreen1* fluorescent protein tag. The coding sequence for this very bright green fluorescent protein (2.5x brighter than EGFP) was modified to include human codon usage preferences, which allow improved expression in mammalian cells (Matz et al. 1999). Inserting a cDNA in the MCS upstream of the *ZsGreen1* 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™ Packaging Single Shots (VSV-G) (Cat. No. 631275) 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-ZsGreen1-N1 Vector (500 ng/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)

Concentration

- 500 ng/µl

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:

- Lenti-X Lentiviral Expression Systems User Manual
- pLVX-ZsGreen1-N1 Vector Information

Certificate of Analysis

Cat. No. 632565

pLVX-ZsGreen1-N1 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

References

Matz, M. V *et al.* Fluorescent proteins from nonbioluminescent Anthozoa species. *Nat. Biotechnol.* **17**, 969–973 (1999).

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	Enzymes	Fragments
pLVX-ZsGreen1-N1	XhoI	8.8 kb
	AccI	3.1, 2.2, 1.3, 1.1, 0.8 & 0.27 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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CATALOG NO.

632565

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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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