

## pLVX-DsRed-Express2-C1 Vector

**Catalog No.**  
632559

**Amount**  
10 µg

**Lot Number**  
Specified on product label.

### Description

This lentiviral expression vector encodes a *DsRed-Express2* fluorescent protein tag. The protein is a rapidly maturing tetrameric fluorescent protein from *Discosoma sp.* that has minimal cytotoxicity, high solubility, and exhibits strong and stable expression mammalian cells (Nat. Methods, 2008). Inserting a cDNA in the MCS downstream of the *DsRed-Express2* coding sequence joins your protein of interest to the C-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-DsRed-Express2-C1 Vector (500 ng/µl)

### Storage Conditions

- Store plasmids at  $-20^{\circ}\text{C}$ .
- 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 ( $-70^{\circ}\text{C}$ )

### 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:

- Lenti-X Lentiviral Expression Systems User Manual
- pLVX-DsRed-Express2-C1 Vector Information

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#### Takara Bio USA, Inc.

1290 Terra Bella Avenue, Mountain View, CA 94043, USA  
U.S. Technical Support: [technical\\_support@takarabio.com](mailto:technical_support@takarabio.com)

United States/Canada 800.662.2566 (021920)	Asia Pacific +1.650.919.7300	Europe +33.(0)1.3904.6880	Japan +81.(0)77.565.6999
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# Certificate of Analysis

Cat. No. 632559

pLVX-DsRed-Express2-C1 Vector

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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

## References

Strack, R. L. *et al.* A noncytotoxic DsRed variant for whole-cell labeling. *Nat. Methods* **5**, 955–7 (2008).

## 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-Express2-C1	XhoI	8.7 kb
	AccI	2.7, 2.2, 1.5, 1.3, & 1.1 kb

- Vector identity was confirmed by sequencing.
- A<sub>260</sub>/A<sub>280</sub>: 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.

632559

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1290 Terra Bella Avenue, Mountain View, CA 94043, USA

U.S. Technical Support: [techUS@takarabio.com](mailto:techUS@takarabio.com)

**United States/Canada**

**Asia Pacific**

**Europe**

**Japan**

800.662.2566

+1.650.919.7300

+33.(0)1.3904.6880

+81.(0)77.565.6999

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## STATEMENT 24

DsRed2, DsRedExpress, DsRedExpress2, E2-Crimson, HcRed and pTimer are covered by one or more of the following U.S. Patent Nos. 7,166,444; 7,150,979; 7,157,565; 7,183,399; 7,858,844; 8,093,450; 8,461,769 and non-U.S. international equivalents in some countries.

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