

## pLVX-tdTomato-C1 Vector

**Catalog No.**  
632564

**Amount**  
10 µg

**Lot Number**  
Specified on product label.

### Description

This lentiviral expression vector encodes the *tdTomato* fluorescent protein tag. This very bright red fluorescent protein is a genetic fusion of two copies of dTomato (Campbell et al. 2002), which was specifically designed for low aggregation. It adopts an intramolecular tandem dimer structure that contributes to its exceptional brightness, yet it behaves like a monomer. Inserting a cDNA in the MCS downstream of the tdTomato 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-tdTomato-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-tdTomato-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

# Certificate of Analysis

Cat. No. 632564

pLVX-tdTomato-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

Campbell, R. E. *et al.* A monomeric red fluorescent protein. *Proc. Nat. Acad. Sci.* **99**, 7877–7882 (2002).

## 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-tdTomato-C1	XhoI	9.5 kb
	AccI	2.7, 2.2 (2), 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.

## pLVX-tdTomato-C1 Vector

### CATALOG NO.

632564

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### STATEMENT 72

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

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800.662.2566	+1.650.919.7300	+33.(0)1.3904.6880	+81.(0)77.565.6999

2/19/2020

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