

## pLVX-TRE3G-Cas9-puro Vector Set

Catalog No.	Amount	Lot Number
632634 (Not sold separately) Sold as a part of 632633	1 set	Specified on product label.

### Description

The pLVX-TRE3G-Cas9-puro Vector Set contains the pLVX-TRE3G-Cas9-puro Vector and is sold as part of the Lenti-X™ Tet-On® 3G CRISPR/Cas9 System. This vector set contains a vector encoding for Tet-inducible Cas9 expression, a control vector encoding for Tet-inducible luciferase expression, and a qPCR primer mix designed to quantify Cas9 mRNA. The Lenti-X Tet-On 3G CRISPR/Cas9 System is designed for Tet-inducible Cas9 expression along with expression of a custom sgRNA. Because Cas9 is only expressed in the presence of doxycycline, genome editing is achieved on demand and without the side-effects of persistent Cas9 expression in cell culture.

### Package Contents

- 20 µl pLVX-TRE3G-Luc Control Vector (500 ng/µl)
- 20 µl pLVX-TRE3G-Cas9-puro Vector (500 ng/µl)
- 50 µl Cas9 qPCR Primer Mix (10 µM)

### Storage Conditions

- Store at -20°C.

### Expiration Date

- Specified on product label.

### Storage Buffer

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

### Shipping Conditions

- Dry ice

### 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 Tet-On 3G CRISPR/Cas9 System User Manual
- pLVX-TRE3G-Luc Control Vector Information
- pLVX-TRE3G-Luc Control Vector Sequence in GenBank Format
- pLVX-TRE3G-Cas9-puro Vector Information
- pLVX-TRE3G-Cas9-puro Vector Sequence in GenBank Format

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#### Takara Bio USA, Inc.

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# Certificate of Analysis

Cat. No. 632634

pLVX-TRE3G-Cas9-puro Vector Set (Not sold separately)

Sold as a part of 632633

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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

## 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:

<b>Vector</b>	<b>Enzymes</b>	<b>Fragments</b>
pLVX-TRE3G-Luc Control	XhoI	9.5 kb
	SalI	7.3 & 2.2 kb
pLVX-TRE3G-puro-Cas9	MluI	11.9 kb
	BamHI	9.9 & 2.0 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.

632634

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