

## pLVX-PTuner Vector

**Catalog No.**

632174 (Not sold separately)  
Sold as a part of 632173.

**Amount**

20 µg

**Lot Number**

Specified on product label.

### Description

pLVX-PTuner is a bicistronic, lentiviral expression vector that allows you to precisely regulate the amount of your protein of interest in virtually any mammalian cell type. Transduced target cells simultaneously express a protein of interest N-terminally tagged with a mutant FKBP destabilizing domain (DD), and a puromycin resistance marker from the same mRNA transcript. Expression of the bicistronic transcript is driven by the constitutively active human cytomegalovirus immediate early promoter. An encephalomyocarditis virus internal ribosome entry site (IRES), located between the gene of interest and the puromycin resistance gene, allows cap-independent translation of the puromycin selection marker. The system requires the use of our Lenti-X™ HTX Packaging System (Cat. Nos. 631247 & 631249), or some other packaging system, to produce very high titers of replication-incompetent, VSV-G pseudotyped lentiviral particles before mammalian cells can be transduced.

### Package Contents

- 20 µg pLVX-PTuner Vector

### Storage Conditions

- Store plasmids at –20°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°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 ProteoTuner Shield Systems User Manual
- pLVX-PTuner Vector Information

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**Takara Bio USA, Inc.**

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# Certificate of Analysis

Cat. No. 632174

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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>Enzyme(s)</b>	<b>Fragment(s)</b>
pLVX-PTuner	BamHI	8.47 kb
	KpnI	6.97 kb & 1.5 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-PTuner Vector

### CATALOG NO.

632174

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### STATEMENT 57

This product is covered by U.S. Patent No. 8,173,792.

### STATEMENT 55

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