

# Product Components List

## Lenti-X™ Ready-To-Glow™ Secreted Luciferase Reporter System

**Catalog No.**

631746

**Amount**

each

### Description

The Lenti-X Ready-To-Glow Secreted Luciferase Reporter System allows you to study your promoter of interest with the secreted *Metridia* luciferase reporter in virtually any cell type, including primary cultures, dividing and nondividing cells, stem cells, terminally differentiated cells, and neuronal cells.

Lenti-X technology enables you to produce exceptionally high titers of recombinant lentivirus in any cell type susceptible to lentiviral transduction. The Lenti-X packaging system is a proprietary combination of plasmids that collectively expresses all the viral proteins necessary for high-efficiency packaging of lentiviral vectors into infectious lentiviral particles. Lenti-X Packaging Single Shots, which contain lyophilized Lenti-X packaging plasmids and transfection reagent, are used for efficient introduction of the Lenti-X packaging mix and the pLVX-MetLuc reporter or control vector into 293T cells with unprecedented efficiency. The concerted effects of these components allow 293T cells to produce high-titer replication-incompetent lentiviral supernatants for safe transduction of virtually any cell type.

The Lenti-X Ready-To-Glow Secreted Luciferase Reporter System also includes the Ready-To-Glow Secreted Luciferase Reporter Assay and the Lenti-X MetLuc Vector Set. The Lenti-X MetLuc Vector Set consists of a pLVX-MetLuc Vector that can be used as a reporter for your promoter of interest in cell-based assays, and a pLVX-MetLuc Control Vector that serves as a positive control for constitutive reporter expression. Detection of promoter activity is made simple with the Ready-To-Glow Secreted Luciferase Reporter Assay, which has been optimized for use with the Lenti-X MetLuc Vector Set. A one-step reaction allows monitoring of promoter activation by detecting the activity of the secreted *Metridia* luciferase reporter enzyme in the supernatant of transfected cells, without the need for cell lysis. The system provides enough reagents for 16 packaging reactions.

### Package Contents

- Lenti-X MetLuc Vector Set (Cat. No. 631747; not sold separately) >> [View Components](#)
- Ready-To-Glow Secreted Luciferase Reporter Assay (Cat. No. 631726) >> [View Components](#)
- Lenti-X Packaging Single Shots (VSV-G) (Cat. No. 631275) >> [View Components](#)
- Lenti-X GoStix™ Plus (Sample) (Cat. No. 631279; not sold separately) >> [View Components](#)

For storage conditions, please see the Certificate of Analysis supplied with each component.

### 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:

- Secreted Luciferase Reporter Assay User Manual (PT3902-1)
- Lenti-X Lentiviral Expression Systems User Manual (PT5135-1)
- Lenti-X Packaging Single Shots Protocol-At-A-Glance

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**Takara Bio USA, Inc.**

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This document has been reviewed and approved by the Quality Department.