

Product Components List

Lenti-X™ DD Cyan Reporter System

Catalog No.	Amount
631748	Each

Description

The Lenti-X DD Cyan Reporter System includes the Lenti-X DD-AmCyan1 Vector Set and Shield1. The Lenti-X DD-AmCyan1 Vector Set includes two lentiviral expression vectors (a reporter vector and a control vector) that produce high titers of recombinant lentivirus, which can efficiently transduce both dividing and nondividing mammalian cells. The system provides enough reagents for 16 packaging reactions. The pLVX-DD-AmCyan1 Reporter Vector is a promoterless vector that allows you to insert your promoter of interest upstream of the cyan fluorescent protein AmCyan1, tagged at its N-terminus with the ProteoTuner™ destabilization domain (DD). In the absence of the membrane-permeant ligand Shield1, the DD causes the reporter protein to be rapidly targeted to and degraded by proteasomes. This very efficient and controllable destabilization method minimizes reporter background fluorescence from leaky promoters prior to promoter activation.

To analyze promoter activity, a candidate inducer is added to the medium along with Shield1, which binds to the DD tag and thereby stabilizes the reporter protein and allows it to accumulate. As a result, *only* the reporter molecules expressed *during* promoter induction will contribute to the fluorescence signal, providing a considerably higher signal-to-noise ratio than that obtained with nondestabilized or constitutively destabilized reporter systems. Cells used to monitor uninduced promoters (e.g., the negative control) will be treated with Shield1 alone.

Package Contents

- Lenti-X DD-AmCyan1 Vector Set (Cat. No. 631749; not sold separately) >> [View Components](#)
- Lenti-X Packaging Single Shots (VSV-G) (Cat. No. 631275) >> [View Components](#)
- Shield1 (500 µl) (Cat. No. 632189) >> [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

The following documents apply to this product:

- DD-Fluorescent Protein Reporter Systems Protocol-At-A-Glance
- Lenti-X Lentiviral Expression Systems User Manual
- Lenti-X Packaging Single Shots Protocol-At-A-Glance
- Lenti-X ProteoTuner Shield Systems User Manual

Takara Bio USA, Inc.

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

U.S. Technical Support: techUS@takarabio.com

United States/Canada 800.662.2566 (011118)	Asia Pacific +1.650.919.7300	Europe +33.(0)1.3904.6880	Japan +81.(0)77.565.6999
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This document has been reviewed and approved by the Quality Department.