

Adeno-X™ CMV Vector Set

Catalog No.	Amount	Lot Number
632263 (Not sold separately) Sold as a part of 632269	10 rxns	Specified on product label.

Description

The Adeno-X CMV Vector Set is supplied with Adeno-X Adenoviral System 3 (CMV) [Cat. No. 632269], which provides a constitutive expression system in an adenoviral vector format. pAdenoX-CMV is a prelinearized, adenoviral vector that is ready for the insertion of your gene of interest via In-Fusion® Snap Assembly. Simply PCR-amplify your gene and combine it with pAdenoX-CMV in an In-Fusion cloning reaction. In-Fusion Snap Assembly is fast, simple, precise, and efficient, making Adeno-X Adenoviral System 3 the most advanced, commercially-available, adenoviral gene delivery tool.

NOTE: The viral supernatants produced by transfecting HEK 293 cells with recombinant pAdeno-X Viral DNA could, depending on your DNA insert, contain potentially hazardous recombinant virus. Due caution must be exercised in the production and handling of recombinant adenovirus. **The user is strongly advised not to create adenoviruses capable of expressing known oncogenes.** Appropriate NIH, regional, and institutional guidelines apply, as well as guidelines specific to other countries. NIH guidelines require that adenoviral production and transduction be performed in a Biosafety Level 2 facility. For more information, see appropriate HHS publications.

Package Contents

- 10 µl pAdenoX-CMV (Linear) Vector (200 ng/µl)
- 50 µl Adeno-X Screening Primer Mix 3 (10 µM)
- 20 µl Adeno-X Control Fragment (50 ng/µl)

Storage Conditions

- Store at –20°C.
- Spin briefly to recover contents.
- Avoid repeated freeze/thaw cycles.

Expiration Date

- Specified on product label.

Shipping Conditions

- Dry ice

Product Documents

Documents for our products are available for download at takarabio.com/manuals

The following documents apply to this product:

- Adeno-X Adenoviral System 3 User Manual
- pAdenoX-CMV (Linear) Vector Information
- pAdenoX-CMV (Linear) Vector Sequence in GenBank Format

Takara Bio USA, Inc.

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Certificate of Analysis

Cat. No. 632263

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Propagation in *E. coli*

- Recommended host strain: Stellar™ Competent Cells
- Selectable marker: plasmid confers 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:

Enzymes	Fragments
NheI	687; 2,683; 3,848; 10,342; & 16,689 bp
XhoI	595; 1,445; 2,466; 3,320; 3,877; 8,046 & 14,500 bp
PacI	10; 2,963; & 31,276 bp

- Vector identity was confirmed by sequencing.
- A₂₆₀/A₂₈₀: 1.8–2.0

Functional Testing

Adeno-X Adenoviral System 3 (CMV) was tested using the control fragment (*lacZ*) according to the protocol described in the Adeno-X Adenoviral System 3 User Manual. Chemically competent Stellar *E. coli* cells were transformed with 1.5 µl of the In-Fusion reaction mixture. After 60 min at 37°C in SOC medium, the cells were plated on agar containing 100 µg/ml ampicillin. Transformants were grown at 37°C for 24–30 hrs. PCR colony screening with the Adeno-X Screening Primer Mix revealed that >50% of the resultant colonies contained recombinant adenoviral DNA.

It is certified that this product meets the above specifications, as reviewed and approved by the Quality Department.

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NOTICE TO PURCHASER:

Our products are to be used for **Research Use Only**. They may not be used for any other purpose, including, but not limited to, use in humans, therapeutic or diagnostic use, or commercial use of any kind. Our products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products or to provide a service to third parties without our prior written approval.

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