

## Adeno-X™ CMV Vector Set (with DsRed-Express)

<b>Catalog No.</b>	<b>Amount</b>	<b>Lot Number</b>
632262 (Not sold separately) Sold as a part of 632268	10 rxns	Specified on product label.

### Description

The Adeno-X CMV Vector Set (with DsRed-Express) is supplied with the Adeno-X Adenoviral System 3 (CMV, Red) (Cat. No. 632268), which provides a constitutive expression system in an adenoviral vector format. pAdenoX-DsRed-Express is a prelinearized, adenoviral vector that is ready for the insertion of your gene of interest via In-Fusion® HD PCR Cloning technology. Simply PCR-amplify your gene and combine it with pAdenoX-DsRed-Express in an In-Fusion HD Cloning reaction. In-Fusion HD Cloning is fast, simple, precise, and efficient, making Adeno-X Adenoviral System 3 the most advanced commercially available adenoviral gene-delivery tool. The vector also constitutively expresses the fluorescent protein DsRed-Express from the E3 region of the adenoviral genome, allowing you to visualize infected cells during rescue, amplification, and target cell infection.

### Package Contents

- 10 µl pAdenoX-DsRed-Express (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](http://takarabio.com/manuals)

The following documents apply to this product:

- Adeno-X Adenoviral System 3 User Manual

### 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

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#### Takara Bio USA, Inc.

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# Certificate of Analysis

Cat. No. 632262

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## Excitation and emission maxima of DsRed-Express

- Excitation maximum = 557 nm
- Emission maximum = 583 nm

## 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	Fragment Sizes
NheI	687 bp, 1,503 bp, 2,828 bp, 3,848 bp, 10,342 bp & 16,689 bp
XhoI	595 bp, 1,445 bp, 2,466 bp, 3,320 bp, 3,877 bp, 9,694 bp & 14,500 bp
PacI	10 bp, 2,963 bp & 32,924 bp

- Vector identity was confirmed by sequencing.
- A<sub>260</sub>/A<sub>280</sub>: 1.8–2.0

### Functional Testing

The Adeno-X Adenoviral System 3 (CMV, Red) 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 hr. 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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### CATALOG NO.

632262

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### STATEMENT 72

Living Colors Fluorescent Protein Products:

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### STATEMENT 69

The DsRed-Monomer, DsRed Express, E2-Crimson and the Fruit Fluorescent Proteins are covered by one or more of the following U.S. Patents: 7,250,298; 7,671,185; 7,910,714; 8,664,471 and 8,679,749.

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7/19/2023

# Notice to Purchaser



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