

pRetroX-IRES-DsRedExpress Vector

Catalog No.
632521

Amount
20 µg

Lot Number
Specified on product label.

Description

The pRetroX-IRES-DsRedExpress vector is a bicistronic retroviral expression vector containing DsRed-Express as a marker for transfection/infection efficiency. A gene of interest is inserted into the MCS located upstream of the encephalomyocarditis virus (ECMV) internal ribosomal entry site (IRES). The IRES sequence allows the protein of interest and DsRed-Express to be independently translated from the same mRNA transcript. DsRed-Express is a human codon-optimized variant of the *Discosoma* sp. red fluorescent protein (DsRed) that has been engineered for faster maturation.

Package Contents

- 20 µg pRetroX-IRES-DsRedExpress Vector (500 ng/µl)

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
The following documents apply to this product:

- Retroviral Gene Transfer and Expression User Manual (PT3132-1)
- Vector Information Packet (PT3965-5)

Propagation in *E. coli*

- Selectable marker: Plasmids confer resistance to ampicillin (100 µg/ml) in *E. coli*.

Takara Bio USA, Inc.

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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:

Vector	Enzyme(s)	Fragment(s)
pRetroX-IRES-DsRedExpress	NotI	5.9 kb
	KpnI	0.5, 0.9, 1.3, 3.2 kb

- Vector identity was confirmed by sequencing.
- A_{260}/A_{280} : 1.8–2.0

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

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STATEMENT 24

DsRed2, DsRedExpress, DsRedExpress2, E2-Crimson, HcRed and pTimer are covered by one or more of the following U.S. Patent Nos. 7,166,444; 7,150,979; 7,157,565; 7,183,399; 7,858,844; 8,093,450; 8,461,769 and non-

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4/5/2021

Notice to Purchaser



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