

pEF1 α -IRES Vector

Catalog No.
631970

Amount
10 μ g

Lot Number
Specified on product label.

Description

pEF1 α -IRES is a bicistronic mammalian expression vector that allows simultaneous, constitutive expression of two genes of interest from the same mRNA transcript, even after stable integration of the vector into the host cell genome. Stable, constitutive expression of the bicistronic transcript is driven by the human elongation factor 1 alpha (EF1 α) promoter, allowing the investigation of a variety of cellular processes (such as differentiation in primary or stem cells) without the transgene silencing associated with CMV promoters.

Package Contents

- 20 μ l pEF1 α -IRES Vector

Storage Conditions

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

Expiration Date

- Specified on product label.

Storage Buffer

- 10 mM Tris-HCl (pH 8.0), 1 mM EDTA (pH 8.0)

Concentration

- 500 ng/ μ l

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:

- pEF1 α -IRES Vector Information
- pEF1 α -IRES Vector Sequence in GenBank Format

Propagation in *E. coli*

- Suitable host strains: DH5 α , HB101, and other general-purpose strains. Single-stranded DNA production requires a host containing an F plasmid, such as the JM109 or XL1-Blue strains.
- Selectable marker: plasmid confers resistance to ampicillin (100 μ g/ml) in *E. coli* hosts.
- *E. coli* replication origin: pUC
- Copy number: high

Takara Bio USA, Inc.

2560 Orchard Parkway, San Jose, CA 95131, USA

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

United States/Canada
800.662.2566
(111523)

Asia Pacific
+1.650.919.7300

Europe
+33.(0)1.3904.6880

Japan
+81.(0)77.565.6999

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	Enzymes	Fragments
pEF1 α -IRES	NheI	6.7 kb
	Acc65I	1.1 & 5.6 kb

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

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

pEF1alpha-IRES Vector

CATALOG NO.

631970

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.

Your use of this product is also subject to compliance with the licensing requirements, listed below if applicable, and described on the product's web page at <http://www.takarabio.com>. It is your responsibility to review, understand and adhere to any restrictions imposed by these statements.

TRADEMARKS:

©2023 Takara Bio Inc. All Rights Reserved.

All trademarks are the property of Takara Bio Inc. or its affiliate(s) in the U.S. and/or other countries or their respective owners. Certain trademarks may not be registered in all jurisdictions.

Takara Bio USA, Inc.

2560 Orchard Parkway, San Jose, CA 95131, USA

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

United States/Canada

800.662.2566

Asia Pacific

+1.650.919.7300

Europe

+33.(0)1.3904.6880

Japan

+81.(0)77.565.6999

11/15/2023