pEF1α-IRES Vector

Table of Contents
Product Information ................................................................................................................................................................ 1
Quality Control Data ............................................................................................................................................................... 2

Catalog No.  Amount  Lot Number
631970  10 μg  Specified on product label.

Product Information
pEF1α-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 (EF1α) 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
- 1 tube of pEF1α-IRES Vector (20 μl/tube)

Storage Conditions
- Store plasmid 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 Clontech products are available for download at www.clontech.com/manuals
The following documents apply to this product:

- pEF1α-IRES Vector Information

Propagation in *E. coli*

- Suitable host strains: DH5α, 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 μg/ml) in *E. coli* hosts.
- *E. coli* replication origin: pUC
- Copy number: high

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:

<table>
<thead>
<tr>
<th>Enzyme(s)</th>
<th>Fragment(s)</th>
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<tbody>
<tr>
<td>NheI</td>
<td>6.7 kb</td>
</tr>
<tr>
<td>Acc65I</td>
<td>1.1 &amp; 5.6 kb</td>
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</tbody>
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- Vector identity was confirmed by sequencing.
- $A_{260}/A_{280}$: 1.8–2.0
Notice to Purchaser

pEF1alpha-IRES Vector

CATALOG NO.
631970

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<table>
<thead>
<tr>
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<th>Asia Pacific</th>
<th>Europe</th>
<th>Japan</th>
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