pIRES2-DsRed2 Vector

**Catalog No.**
632420

**Amount**
20 µg

**Lot Number**
Specified on product label.

**Description**
Bicistronic expression vector containing DsRed2 as a marker for transfection 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 both the gene of interest and DsRed2 to be translated simultaneously from the same mRNA transcript. DsRed2 is a human codon-optimized variant of wild-type DsRed that has been engineered for faster maturation and lower nonspecific aggregation.

**Package Contents**
- 1 tube of pIRES2-DsRed2 Vector

**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

**Antibiotic Resistance**
- Kanamycin (50 µg/ml for propagation in *E. coli*)

**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:
- Vector Information Packet (PT3663-5)
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>
</tr>
</thead>
<tbody>
<tr>
<td>EcoRI</td>
<td>5.3 kb</td>
</tr>
<tr>
<td>PstI</td>
<td>4.3 &amp; 1.0 kb</td>
</tr>
</tbody>
</table>

- The identity of the pIRES2-DsRed2 variant was verified 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.
pIRES2-DsRed2 Vector

CATALOG NO.

632420

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.

STATEMENT 24

DsRedExpress, DsRedExpress2, E2-Crimson, and HcRed are covered by one or more of the following U.S. Patent Nos. 7,157,565; 8,664,471; 8,679,749 and non-U.S. international equivalents in some countries.

TRADEMARKS:

©2022 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.