

pDsRed2-1 Vector

Catalog No.
632405

Amount
20 µg

Lot Number
Specified on product label.

Description

pDsRed2-1 encodes DsRed2, a variant of the *Discosoma sp.* red fluorescent protein (DsRed). DsRed2 contains six amino acid substitutions that accelerate chromophore maturation and decrease protein aggregation. In addition, the coding sequence for DsRed2 contains a series of silent base-pair changes for higher expression in mammalian cells. pDsRed2-1 can be used as a reporter to monitor the activity of promoters and promoter/enhancer combinations cloned into the multiple cloning site (MCS) upstream of the promoterless DsRed2 gene. Without the addition of a functional promoter, this vector will not express DsRed2.

Package Contents

- 1 tube of pDsRed2-1 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

The following documents apply to this product:

- Vector Information Packet (PT3602-5)

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:

Enzyme(s)	Fragment(s)
EcoRI	4.1 kb
StuI	2.7 & 1.4 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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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.

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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.

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