

pDsRed-Monomer-N In-Fusion® Ready Vector

Catalog No.

632498

Amount

1 µg

Lot Number

Specified on product label.

Description

pDsRed-Monomer-N In-Fusion Ready Vector encodes DsRed-Monomer, a monomeric mutant of the *Discosoma* sp. red fluorescent protein. The vector is prelinearized to enable directional In-Fusion cloning of PCR fragments onto the 5' end of the DsRed-Monomer-encoding gene without further restriction digests. Sequences complementary to the vector sequences (flanking the site of linearization) need to be incorporated at the 5' ends of the PCR primers (see PT3865-2). The gene of interest is expressed as an N-terminal fusion to DsRed-Monomer in mammalian cells. The fluorescent protein coding sequence in this construct has been human codon-optimized for efficient expression and enhanced brightness in mammalian cells.

Package Contents

- 1 µg pDsRed-Monomer-N In-Fusion Ready Vector

Storage Conditions

- Store linearized 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

- 100 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:

- pDsRed-Monomer-N In-Fusion Ready Vector Information (PT3863-5)
- In-Fusion Ready Vector Cloning Protocol-at-a-Glance (PT3865-2)

Clontech Laboratories, Inc.

A Takara Bio Company

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(070313)			

Propagation in *E. coli*

- Suitable host strains: Stellar™ Competent Cells
- Selectable marker: plasmid confers resistance to kanamycin (50 µg/ml) in *E. coli* hosts.
- *E. coli* replication origin: pUC
- Copy number: ~ 500
- Plasmid incompatibility group: pMB1/ColE1

Excitation and Emission of DsRed-Monomer

- Excitation: 557 nm
- Emission: 592 nm

Quality Control Data

- The presence of the correct fluorescent protein variant was confirmed by sequencing.
- A_{260}/A_{280} : 1.8–2.0

Functional Testing of Linear Markers

- When 5 ng of linearized vector was transformed into Stellar Cells, fewer than 400 colonies were observed.

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STATEMENT 44

The DsRed-Monomer and the Fruit Fluorescent Proteins are covered by one or more of the following U.S. Patents: 7,005,511; 7,157,566; 7,393,923 and 7,250,298.

STATEMENT 72

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