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PRODUCT: pDsRed-Monomer-F Vector**CATALOG No.** 632493**LOT NUMBER**

Specified on product label.

STORAGE CONDITIONS

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

PLASMID STORAGE BUFFER

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

SHELF LIFE

1 year from date of receipt under proper storage conditions.

SHIPPING CONDITIONSBlue ice (4°C) or dry ice (-70°C)**DESCRIPTION**

pDsRed-Monomer-F encodes a fusion protein consisting of the DsRed-Monomer red fluorescent protein and the farnesylation signal of c-Ha-ras. DsRed-Monomer is a monomeric mutant of the *Discosoma* sp. red fluorescent protein DsRed. The DsRed-Monomer coding sequence in this construct has been human codon-optimized for efficient expression and enhanced brightness in mammalian cells. pDsRed-Monomer-F can be used for labeling the inner face of the plasma membrane.

CONCENTRATION: 500 ng/ μl **PLASMID SIZE:** 4.8 kb**ANTIBIOTIC RESISTANCE**

- Kanamycin (50 $\mu\text{g}/\text{ml}$ for propagation in *E. coli* cells)
- G418 (500 $\mu\text{g}/\text{ml}$ for selection in mammalian cells)

PACKAGE CONTENTS

- 20 μg pDsRed-Monomer-F Vector

OTHER

- pDsRed-Monomer-F Vector Information Packet (PT3845-5)

FOR RESEARCH USE ONLY

QUALITY CONTROL DATA

See back of page.

**Clontech**

United States/Canada
800.662.2566

Asia Pacific
+1.650.919.7300

Europe
+33.(0)1.3904.6880

Japan
+81.(0)77.543.6116

Clontech Laboratories, Inc.
A Takara Bio Company
1290 Terra Bella Ave.
Mountain View, CA 94043
Technical Support (US)
E-mail: tech@clontech.com
www.clontech.com

APPROVED BY: _____

(PA842691)

QUALITY CONTROL DATA

- Digestion with the indicated restriction enzymes produced fragments of the indicated sizes on an agarose/EtBr gel:

Enzyme(s)	Fragment(s)*
<i>Xho</i> I	4.8 kb
<i>Age</i> I/ <i>Bsp</i> E I	0.7 & 4.1 kb

- The presence of the correct fluorescent protein variant was confirmed by sequencing.
- Plasmid purity was analyzed by OD A_{260}/A_{280} measurement and found to be ≥ 1.8

* **Note:** Fragment sizes are estimates; the apparent sum of all fragment sizes for a given digest may not equal the actual size of the plasmid due to number rounding.

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