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PRODUCT: pDsRed-Monomer-F Hyg Vector**CATALOG No.** 632514**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 Hyg 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 optimized for efficient expression and enhanced brightness in mammalian cells. pDsRed-Monomer-F Hyg can be used for labeling the inner leaflet of the plasma membrane. The hygromycin resistance cassette allows you to create double-stable cell lines if this vector is used in conjunction with any other Living Colors® vector that contains a neomycin resistance cassette.

CONCENTRATION: 500 ng/ μl **PLASMID SIZE:** 5.8 kb**ANTIBIOTIC RESISTANCE**

- Ampicillin (100 $\mu\text{g}/\text{ml}$ for propagation in *E. coli* cells)
- Hygromycin B (200 $\mu\text{g}/\text{ml}$ for selection in mammalian cells)

PACKAGE CONTENTS

- 20 μg pDsRed-Monomer-F Hyg Vector
- Vector Information Packet (PT3890-5)

FOR RESEARCH USE ONLY**QUALITY CONTROL DATA**

See back of page.

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(PA862757)

QUALITY CONTROL DATA

- Digestion with the indicated restriction enzyme produced a fragment of the indicated size on an agarose/EtBr gel:

Enzyme	Fragment
Asc I	5.8 kb

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

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DsRed-Monomer: This product is covered under U.S. Patent No. 7,250,298.

Living Colors® Products AcGFP1, DsRed, HcRed, AsRed, AmCyan, ZsGreen, ZsYellow and their variants:

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