PRODUCT:  pDsRed2-Nuc Vector

CATALOG NO.  632408
AMOUNT  20 µg

LOT NUMBER
Specified on product label.

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

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.

SHIPPING CONDITIONS
Blue ice (4°C) or dry ice (~70°C)

FOR RESEARCH USE ONLY

DESCRIPTION
pDsRed2-Nuc encodes Discosoma sp. red fluorescent protein (DsRed2) fused with three copies of the nuclear localization signal (NLS) of the SV40 T-antigen. The NLS sequences are fused to the 3'-end of DsRed2. DsRed2 is a human codon-optimized variant of wild-type DsRed that has been engineered for faster maturation and lower non-specific aggregation. pDsRed2-Nuc is designed for fluorescent labeling of the nucleus in living cells.

CONCENTRATION:  500 ng/µl

PLASMID SIZE:  4.7 kb

ANTIBIOTIC RESISTANCE
Kanamycin (50 µg/ml for propagation in E. coli)

PACKAGE CONTENTS
1 tube of pDsRed2-Nuc Vector

OTHER
- Vector Information Packet (PT3641-5)

QUALITY CONTROL DATA
- Digestion with the indicated restriction enzymes produced fragments of the indicated sizes on a 0.8% agarose/EtBr gel:
  - Enzyme(s)  Fragment(s)
    - StuI  3.2 & 1.5 kb
    - AseI  4.7 kb
  - A260/A280:  1.8 – 2.0
  - The identity of this vector was confirmed by sequencing.

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The RCFPs (including DsRed-Express and DsRed-Express2) are covered by one or more of the following U.S. Patent Nos. 7,166,444; 7,157,565; 7,217,789; 7,338,784; 7,338,783; 7,537,915; 6,969,597; 7,150,979 and 7,442,522.

Living Colors Fluorescent Protein Products:
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