pDsRed-Express2-N1 is a mammalian expression vector that encodes DsRed-Express2, a variant of Discosoma sp. red fluorescent protein (DsRed). pDsRed-Express2-N1 can be used to construct fusions to the N-terminus of DsRed-Express2. The fusion construct retains the fluorescent properties of the native DsRed-Express2 protein, and its expression can be monitored by flow cytometry and its cellular localization can be determined by fluorescence microscopy. pDsRed-Express2-N1 can also be used as a cotransfection marker; the unmodified vector will express DsRed-Express2 in mammalian cells.

**CONCENTRATION:** 500 ng/µl

**PLASMID SIZE:** 4.7 kb

**CLONING SITES**
- Accl, Acc65I, Apal, BamHI, BagIII, Bsp120I,
- Eco47III, EcoRI, HindIII, KpnI, Nhel, SacI, SacII,
- SalI, SmaI, SpeI, XhoI, Xmal

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

**PACKAGE CONTENTS**
1 tube of pDsRed-Express2-N1 Vector

**OTHER**
- Vector Information Packet (PT4076-5)
QUALITY CONTROL DATA

- Digestion with the indicated restriction enzymes produced fragments of the indicated sizes on a 0.8% agarose/EtBr gel:

<table>
<thead>
<tr>
<th>Enzyme(s)</th>
<th>Fragment(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NotI</td>
<td>4.7 kb</td>
</tr>
<tr>
<td>ApaLI</td>
<td>1.1&amp; 3.6 kb</td>
</tr>
</tbody>
</table>

- $A_{260}/A_{280} : 1.8 – 2.0$
- The identity of the plasmid was verified by sequencing.

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The RCFP’s (including DsRedExpress and DsRedExpress2) 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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This document has been reviewed and approved by the Clontech Quality Assurance Department.