**PRODUCT:** pDsRed2-1 Vector

**CATALOG NO.** 632405  
**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)

**DESCRIPTION**  
pDsRed2-1 encodes DsRed2, a variant of the *Discosoma* sp. red fluorescent protein (DsRed). DsRed2 contains six amino acid substitutions that accelerate chromophore maturation and decrease protein aggregation. In addition, the coding sequence for DsRed2 contains a series of silent base-pair changes for higher expression in mammalian cells. pDsRed2-1 can be used as a reporter to monitor the activity of promoters and promoter/enhancer combinations cloned into the multiple cloning site (MCS) upstream of the promoterless DsRed2 gene. Without the addition of a functional promoter, this vector will not express DsRed2.

**CONCENTRATION:** 500 ng/µl

**PLASMID SIZE:** 4.1 kb

**CLONING SITES**  

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

**PACKAGE CONTENTS**  
1 tube of pDsRed2-1 Vector

**OTHER**  
- Vector Information Packet (PT3602-5)

**FOR RESEARCH USE ONLY**

**QUALITY CONTROL DATA**  
See back of page.
**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>EcoRI</td>
<td>4.1 kb</td>
</tr>
<tr>
<td>StuI</td>
<td>2.7 &amp; 1.4 kb</td>
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</tbody>
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- $A_{260}/A_{280}$: 1.8 – 2.0
- The identity of the plasmid was verified by sequencing.