PRODUCT: pHcRed1-DR Vector

CATALOG NO. AMOUNT
632422 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
pHcRed1-DR is a promoterless vector that encodes HcRed1-DR, a destabilized variant of *Heteractis crispa* far-red fluorescent protein, HcRed1. HcRed1-DR contains a PEST degradation domain at its C-terminus, so it is rapidly turned over in mammalian cell culture. Because of its short half-life, HcRed1-DR is well suited for monitoring the activity of promoters and promoter/enhancer combinations cloned into the multiple cloning site, located upstream of the human codon-optimized HCRed1-DR gene. Without the addition of a functional promoter, this vector will not express HcRed1-DR.

CONCENTRATION: 500 ng/µl

PLASMID SIZE: 4.3 kb

CLONING SITES
Age I, Apa I, BamH I, Bgl II, Eco47 III, EcoR I, Hind III, Kpn I, Sac I, Sac II, Sal I, Xho I, Xma I

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

PACKAGE CONTENTS
1 tube of pHcRed1-DR Vector

OTHER
• Vector Information Packet (PT3701-5)

QUALITY CONTROL DATA
Please 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>Sal I/Not I</td>
<td>3.4 &amp; 0.9 kb</td>
</tr>
<tr>
<td>Sma I</td>
<td>4.3 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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