

## pHcRed1-N1/1 Vector

**Catalog No.**  
632424

**Amount**  
20 µg

**Lot Number**  
Specified on product label.

### Description

pHcRed1-N1/1 encodes HcRed1, a far-red fluorescent protein that can be used to monitor gene expression and protein localization *in vivo*. HcRed1 was generated by mutagenesis of a non-fluorescent chromoprotein from the reef coral *Heteractis crispa*. The coding sequence for HcRed1 is human codon-optimized for higher expression in mammalian cells. Genes cloned into the multiple cloning site upstream of the HcRed1 coding sequence are expressed as fusions to the N-terminus of HcRed1. The unmodified vector will express HcRed1 in mammalian cells.

### Package Contents

- 1 tube of pHcRed1-N1/1 Vector

### Storage Conditions

- Store plasmids at  $-20^{\circ}\text{C}$ .
- Spin briefly to recover contents.
- Avoid repeated freeze/thaw cycles.

### Shelf Life

- 1 year from date of receipt under proper storage conditions.

### Storage Buffer

- 10 mM Tris-HCl (pH 8.0), 1 mM EDTA (pH 8.0)

### Concentration

- 500 ng/µl

### Shipping Conditions

- Dry ice ( $-70^{\circ}\text{C}$ )

### Product Documents

Documents for our products are available for download at [takarabio.com/manuals](http://takarabio.com/manuals)

The following documents apply to this product:

- Vector Information Packet (PT3706-5)

### Propagation in *E. coli*

- Selectable marker: Plasmids confer resistance to kanamycin (50 µg/ml) in *E. coli*.

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#### Takara Bio USA, Inc.

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## Quality Control Data

### Plasmid Identity & Purity

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

<b>Vector</b>	<b>Enzyme(s)</b>	<b>Fragment(s)</b>
pHcRed1-N1/1	NotI	4.7 kb
	AgeI/NotI	4.0 & 0.7 kb

- Vector identity was confirmed by sequencing.
- $A_{260}/A_{280}$ : 1.8–2.0

It is certified that this product meets the above specifications, as reviewed and approved by the Quality Department.

## pHcRed1-N1/1 Vector

### CATALOG NO.

632424

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### STATEMENT 24

DsRed2, DsRedExpress, DsRedExpress2, E2-Crimson, HcRed and pTimer are covered by one or more of the following U.S. Patent Nos. 7,166,444; 7,150,979; 7,157,565; 7,183,399; 7,858,844; 8,093,450; 8,461,769 and non-

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4/5/2021

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