

## pHcRed1-Nuc Vector

**Catalog No.**  
632433

**Amount**  
20 µg

**Lot Number**  
Specified on product label.

### Description

pHcRed1-Nuc Vector encodes a far-red fluorescent protein HcRed1 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 HcRed1. 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. pHcRed1-Nuc is designed for visualizing the nucleus in living or fixed cells by fluorescence microscopy.

### Package Contents

- 1 tube of pHcRed1-Nuc 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 (PT3728-5)

### 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-Nuc	XhoI	4.7 kb
	NheI/XhoI	4.0 & 0.7 kb
	NheI/BamHI	4.0 & 0.8 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.

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### STATEMENT 72

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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

# Notice to Purchaser



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