

## PRODUCT: pHcRed1-Mito Vector

**CATALOG NO.**  
632434

**AMOUNT**  
20 µg

### DESCRIPTION

pHcRed1-Mito encodes a far-red fluorescent protein HcRed1 fused with mitochondrial targeting sequence from the precursor protein of human cytochrome c oxidase subunit VIII. HcRed1 is a fluorescent variant of a chromoprotein found in the reef coral *Heteractis crispa*. The coding sequence for HcRed1 has been human codon optimized for higher expression in mammalian cells. pHcRed1-Mito can be used for specific labeling of mitochondria in living cells.

### 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)

**CONCENTRATION:** 500 ng/µl

**PLASMID SIZE:** 4.7 kb

### ANTIBIOTIC RESISTANCE

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

### PACKAGE CONTENTS

1 tube of pHcRed1-Mito Vector

### OTHER

- Vector Information Packet (PT3734-5)
- User Manual (PT3404-1)

### FOR RESEARCH USE ONLY

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### QUALITY CONTROL DATA

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

Enzyme(s)	Fragment(s)
<i>Age</i> I	4.7 kb
<i>Nco</i> I	1.9, 1.7, 0.7 & 0.35 kb

- $A_{260}/A_{280}$ : 1.8 – 2.0
- The identity of this vector was confirmed by sequencing.

APPROVED BY: 

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