

## pDsRed2-Mito Vector

**Catalog No.**

632421

**Amount**

20 µg

**Lot Number**

Specified on product label.

### Description

pDsRed2-Mito encodes a fusion of *Discosoma* sp. red fluorescent protein (DsRed2) and a mitochondrial targeting sequence of human cytochrome c oxidase subunit VIII (Mito). The targeting sequence is fused to the 5'-end of DsRed2, which is human codon-optimized for high expression in mammalian cells. pDsRed2-Mito is designed for fluorescent labeling of mitochondria.

### Package Contents

- 1 tube of pDsRed2-Mito Vector

### Storage Conditions

- Store 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.

### Storage Buffer

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

### Concentration

- 500 ng/µl

### Plasmid size

- 4.7 kb

### Antibiotic Resistance

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

### Shipping Conditions

- Dry ice

### 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:

- pDsRed2-Mito Vector Map (PT3633-5)

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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>Enzymes</b>	<b>Fragments (kb)</b>
StuI	3.3 and 1.4 kb
NotI	4.7 kb

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

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

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### NOTICE TO PURCHASER:

Our products are to be used for **Research Use Only**. They may not be used for any other purpose, including, but not limited to, use in humans, therapeutic or diagnostic use, or commercial use of any kind. Our products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products or to provide a service to third parties without our prior written approval.

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### STATEMENT 24

DsRedExpress, DsRedExpress2, E2-Crimson, and HcRed are covered by one or more of the following U.S. Patent Nos. 7,157,565; 8,664,471; 8,679,749 and non-U.S. international equivalents in some countries.

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