

## pRetroX-IRES-ZsGreen1 Vector

**Catalog No.**  
632520

**Amount**  
20 µg

**Lot Number**  
Specified on product label.

### Description

The pRetroX-IRES-ZsGreen1 vector is a bicistronic retroviral expression vector containing ZsGreen1 as a marker for transfection/infection efficiency. A gene of interest is inserted into the MCS located upstream of the encephalomyocarditis virus (ECMV) internal ribosomal entry site (IRES). The IRES sequence allows the protein of interest and ZsGreen1 to be independently translated from the same mRNA transcript. ZsGreen1 is a human codon-optimized variant of the *Zoanthus* sp. green fluorescent protein (ZsGreen) that has been engineered for brighter fluorescence and higher expression in mammalian cells.

### Package Contents

- 20 µg pRetroX-IRES-ZsGreen1 Vector (500 ng/µl)

### 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)

### 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:

- Retroviral Gene Transfer and Expression User Manual (PT3132-1)
- Vector Information Packet (PT3964-5)

### Propagation in *E. coli*

- Selectable marker: plasmids confer resistance to ampicillin (100 µg/ml) in *E. coli* hosts.

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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>
pRetroX-IRES-ZsGreen1	NotI	6.0 kb
	KpnI	0.5, 0.9, 1.4, 3.2 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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