

## pIRES2-ZsGreen1 Vector

**Catalog No.**  
632478

**Amount**  
20 µg

**Lot Number**  
Specified on product label.

### Description

pIRES2-ZsGreen1 is a bicistronic expression vector containing ZsGreen1 as a marker for transfection efficiency. It encodes a human codon-optimized variant of the *Zoanthus* sp. green fluorescent protein, ZsGreen, which has been engineered for brighter fluorescence and higher expression in mammalian cells. 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 gene of interest and ZsGreen1 to be translated simultaneously from the same mRNA transcript.

### Package Contents

- pIRES2-ZsGreen1 Vector: 1 tube (20 µg, 500 ng/µl)

### Storage Conditions

- Store plasmids 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)

### Shipping Conditions

- Dry ice (-70°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 (PT3824-5)

### Propagation in *E. coli*

- Selectable marker: plasmids confer resistance to kanamycin (50 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>
pIRES2-ZsGreen1	NotI	5.3 kb
	SalI	4.5 & 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.

## plRES2-ZsGreen1 Vector

### CATALOG NO.

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