

## Proteasome Sensor Vector

Catalog No.	Amount	Lot Number
632425	20 µg	Specified on product label.

### Description

The Proteasome Sensor Vector (pZsProSensor-1) encodes the gene for *Zoanthus* sp. Green Fluorescent Protein (ZsGreen) fused to the mouse ornithine decarboxylase (MODC) degradation domain (amino acids 410–461). This vector is designed for studies of proteasome function in mammalian cells; since the MODC degradation domain targets the constitutively-expressed protein for rapid degradation, the protein does not accumulate in cells until the proteasome is inhibited, which is indicated by an increase in green fluorescence. This vector also contains a kanamycin/neomycin selectable marker, as well as SV40 and pUC origins of replication.

### Package Contents

- 20 µg pZsProSensor-1 Vector (500 ng/µl)

### Storage Conditions

- Store plasmid at –20°C.
- Spin briefly to recover contents.
- Avoid repeated freeze/thaw cycles.

### Expiration Date

- Specified on product label.

### Storage Buffer

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

### Concentration

- 500 ng/µl

### 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:

- pZsProSensor-1 Vector Sequence in GenBank Format

### Propagation in *E. coli*

- Selectable marker: plasmids confer resistance to kanamycin (50 µg/ml) in *E. coli* hosts.

## 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>Enzymes</b>	<b>Fragments</b>
pZsProSensor-1	BglII	4.8 kb
	BglII & NotI	3.9 & 0.9 kb

- The presence of the correct protein variant 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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### CATALOG NO.

632425

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