

Certificate of Analysis

pAutophagSENSE Vector

Catalog No. 632583	Amount 20 µg	Lot Number Specified on product label.
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Description

The pAutophagSENSE vector expresses the mutant green fluorescent protein AcGFP1 (excitation maximum = 475 nm; emission maximum = 505 nm) fused to the rat LC3 protein in mammalian cells. The fusion protein is incorporated into the autophagosomes and is used to monitor autophagosome formation in live cells. This process is monitored by following the redistribution of a green fluorescent fusion protein from the cytosol to the forming autophagosomes.

Package Contents

- 40 µl pAutophagSENSE Vector (500 ng/µl)

Storage Conditions

- Store 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

The following documents apply to this product:

- pAutophagSENSE Vector Information

Propagation in *E. coli*

- Recommended host strain: Stellar™ Competent Cells (Cat. No. 636763). Single-stranded DNA production requires strains containing an F plasmid, such as JM109 or XL1-Blue.
- Selectable marker: Plasmids confer resistance to kanamycin (50 µg/ml) in *E. coli* hosts.
- *E. coli* replication origin: pUC

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Excitation and Emission of AcGFP1

- Excitation: 475 nm
- Emission: 505 nm

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:

Vector	Enzyme	Fragment
pAutophagSENSE	SacII	5.2 kb
	Eco47III (AfeI compatible)/AccI	4.0 & 1.2 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.

pAutophagSENSE Vector

CATALOG NO.

632583

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STATEMENT 39

AcGFP is covered by U.S. Patent No. 7,432,053.

STATEMENT 72

Living Colors Fluorescent Protein Products:

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3/23/2023

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