

Reef Coral Fluorescent Protein Vector Set

Catalog No.

630050

Amount

Each

Lot Number

Specified on product label.

Description

A set of twelve vectors encoding novel fluorescent proteins in four colors: cyan, green, red, and yellow. Four constructs are prokaryotic expression vectors that also serve as convenient sources of fluorescent protein cDNAs. In each of these prokaryotic vectors, the full-length cDNA is flanked by distinct MCSs to facilitate excision from the vector and insertion into other eukaryotic or prokaryotic expression constructs. Eight of the vectors are designed for studies in mammalian systems. These vectors allow expression of a protein of interest as a C- or N- terminal fusion to any of the four fluorescent proteins. The fusion vectors can also be used as cotransfection markers; the unmodified vectors will express fluorescent protein.

Package Contents

- 20 µg pAmCyan Vector (500 ng/µl)
- 20 µg pAmCyan1-C1 Vector (500 ng/µl)
- 20 µg pAmCyan1-N1 Vector (500 ng/µl)
- 20 µg pZsGreen Vector (500 ng/µl)
- 20 µg pZsGreen1-C1 Vector (500 ng/µl)
- 20 µg pZsGreen1-N1 Vector (500 ng/µl)
- 20 µg pAsRed2 Vector (500 ng/µl)
- 20 µg pAsRed2-C1 Vector (500 ng/µl)
- 20 µg pAsRed2-N1 Vector (500 ng/µl)
- 20 µg pZsYellow Vector (500 ng/µl)
- 20 µg pZsYellow1-C1 Vector (500 ng/µl)
- 20 µg pZsYellow1-N1 Vector (500 ng/µl)

Storage Conditions

- Store plasmid 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)

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Product Documents

Documents for our products are available for download at takarabio.com/manuals

The following documents apply to this product:

- pAmCyan Vector Information
- pAmCyan1-C1 Vector Information
- pAmCyan1-N1 Vector Information
- pZsGreen Vector Information
- pZsGreen1-C1 Vector Information
- pZsGreen1-N1 Vector Information
- pAsRed2 Vector Information
- pAsRed2-C1 Vector Information
- pAsRed2-N1 Vector Information
- pZsYellow Vector Information
- pZsYellow1-C1 Vector Information
- pZsYellow1-N1 Vector Information

Antibiotic Resistance

Vector	<u>Selectable Marker</u>	
	<i>E. coli</i>	Mammalian
pAmCyan	Amp	n/a
pAmCyan1-C1	Kan	Neo
pAmCyan1-N1	Kan	Neo
pZsGreen	Amp	n/a
pZsGreen1-C1	Kan	Neo
pZsGreen1-N1	Kan	Neo
pAsRed2	Amp	n/a
pAsRed2-C1	Kan	Neo
pAsRed2-N1	Kan	Neo
pZsYellow	Amp	n/a
pZsYellow1-C1	Kan	Neo
pZsYellow1-N1	Kan	Neo

Amp = confers resistance to ampicillin (50 µg/ml)

Kan = confers resistance to kanamycin (50 µg/ml)

Neo = confers resistance to neomycin; stable transfectants can be selected with G418 (0.5–1.3 mg/ml, depending on the cell line)

n/a = not applicable (prokaryotic expression vector)

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(s)	Fragment(s) (kb)
pAmCyan	NotI	3.3
	NotI & KpnI	2.6 & 0.7
pAmCyan1-C1	BglII	4.7
	BglII & AgeI	4.0 & 0.7
pAmCyan1-N1	BamHII	4.7
	BamHII & NotI	4.0 & 0.7
pZsGreen	NotI	3.3
	NotI & AgeI	2.6 & 0.7
pZsGreen1-C1	NheI	4.7
	NheI & BglII	4.0 & 0.7
pZsGreen1-N1	BglII	4.7
	NotI & BamHI	4.0 & 0.7
pAsRed2	KpnI	3.3
	KpnI & NotI	2.6 & 0.7
pAsRed2-C1	NheI	4.7
	NheI & BglII	4.0 & 0.7
pAsRed2-N1	NheI	4.7
	SalI & NotI	4.0 & 0.7
pZsYellow	KpnI	3.3
	KpnI & NotI	2.6 & 0.7
pZsYellow1-C1	BglII	4.7
	BglII & NheI	4.0 & 0.7
pZsYellow1-N1	BamHI	4.7
	BamHI & NotI	4.0 & 0.7

- A_{260}/A_{280} : 1.8–2.0
- The presence of the correct protein variant was confirmed by sequencing.

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