

p53 Dominant-Negative Vector Set

Catalog No.

631922

Amount

Each

Lot Number

Specified on product label.

Description

The p53 Dominant-Negative Vector Set is a set of two vectors for studying p53 and p53-related signaling pathways. pCMV-p53 expresses the wild-type p53 tumor suppressor protein. pCMV-p53mt135 contains the gene encoding a dominant-negative mutation of p53 that blocks normal p53 activity. Both genes are expressed from the constitutive CMV promoter. Use these vectors in mammalian systems for studying p53 function in apoptosis, cell growth, and DNA damage repair.

- **Plasmid Size of pCMV-p53 Vector:** 5.2 kb
- **Plasmid Size of pCMV-p53mt135 Vector:** 5.2 kb
- **Antibiotic Resistance, pCMV-p53 Vector:** Kanamycin (50 µg/ml for propagation in *E. coli*)
- **Antibiotic Resistance, pCMV-p53mt135 Vector:** Kanamycin (50 µg/ml for propagation in *E. coli*)

Package Contents

- 20 µg pCMV-p53 Vector (500 ng/µl)
- 20 µg pCMV-p53mt135 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:

- p53 Dominant-Negative Vector Set Vector Information

Takara Bio USA, Inc.

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Certificate of Analysis

Cat. No. 631922

p53 Dominant-Negative Vector Set

- pCMV-p53 Vector Sequence in GenBank Format

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:

	Enzymes	Fragments
pCMV-p53	HindIII	5.2 kb
	HindIII & EcoRI	4.0 & 1.2 kb
pCMV-p53mt135	HindIII	5.2 kb
	HindIII & EcoRI	4.0 & 1.2 kb

- Vector identity of each vector was confirmed by sequencing.
- A₂₆₀/A₂₈₀: 1.8–2.0 for each vector.

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

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NOTICE TO PURCHASER:

Our products are to be used for **Research Use Only**. They may not be used for any other purpose, including, but not limited to, use in humans, therapeutic or diagnostic use, or commercial use of any kind. Our products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products or to provide a service to third parties without our prior written approval.

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