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PRODUCT: CREB Dominant-Negative Vector Set

CATALOG No. 631925

AMOUNT: 20 µg each

LOT NUMBER

Specified on product label.

STORAGE BUFFER

10 mM Tris-HCl (pH 8.0)

1 mM EDTA (pH 8.0)

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.

SHIPPING CONDITIONS

Blue ice (4°C) or dry ice (-70°C)

DESCRIPTION

Set of three vectors for studying CREB-related signaling pathways. The pCMV-CREB Vector expresses the wild-type CREB protein. pCMV-CREB133 Vector encodes a mutated form of CREB, blocking cAMP-induced transcription and preventing CREB phosphorylation. pCMV-KCREB also encodes a mutated form of CREB, blocking cAMP-induced transcription. Each gene is expressed from the constitutive CMV promoter.

VECTOR CONCENTRATION

500 ng/µl each

PLASMID SIZE

4.9 kb each

ANTIBIOTIC RESISTANCE

Kanamycin (50 µg/ml; for propagation in *E. coli*)

PACKAGE CONTENTS

- 1 tube of pCMV-CREB Vector
- 1 tube of pCMV-CREB133 Vector
- 1 tube of pCMV-KCREB Vector
- Vector Information Packet (PT3457-5)

FOR RESEARCH USE ONLY

QUALITY CONTROL DATA

- Digestion with the indicated restriction enzymes produced fragments of the indicated sizes on a 0.8% agarose/EtBr gel:

	Enzymes	Fragments
pCMV-CREB Vector	<i>Bam</i> H I, <i>Hind</i> III	3.9 & 1.0 kb
pCMV-CREB133 Vector	<i>Bam</i> H I, <i>Hind</i> III	3.9 & 1.0 kb
pCMV-KCREB Vector	<i>Bam</i> H I, <i>Hind</i> III	4.0 & 0.9 kb

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



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