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## PRODUCT: Ras Dominant-Negative Vector Set

**CATALOG No.**  
631924

**AMOUNT**  
20 µg each

### DESCRIPTION

Set of three vectors for studying Ras or MAPK signaling pathways. The pCMV-Ras Vector expresses the wild-type Ha-ras protein. The pCMV-RasN17 Vector contains a mutated form of Ras with a serine-to-asparagine mutation at residue 17. To constitutively express Ras, pCMV-RasV12 contains a mutated form of Ras with a glycine-to-valine mutation at residue 12. These vectors can be used to study Ras-related signal transduction pathways in mammalian cells. Each gene is expressed from the constitutive CMV promoter.

### 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  $-20^{\circ}\text{C}$ .
- 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 ( $4^{\circ}\text{C}$ ) or dry ice ( $-70^{\circ}\text{C}$ )

### VECTOR CONCENTRATION

500 ng/µl each

### PLASMID SIZE

4.6 kb each

### ANTIBIOTIC RESISTANCE

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

### PACKAGE CONTENTS

- 1 tube of pCMV-Ras Vector
- 1 tube of pCMV-RasN17 Vector
- 1 tube of pCMV-RasV12 Vector

### OTHER

- Vector Information Packet (PT3456-5)

### FOR RESEARCH USE ONLY

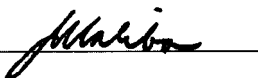
### QUALITY CONTROL DATA

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

	Enzymes	Fragments
pCMV-Ras Vector	<i>EcoR</i> I, <i>BamH</i> I	4.0 & 0.6 kb
pCMV-RasN17 Vector	<i>EcoR</i> I, <i>BamH</i> I	4.0 & 0.6 kb
pCMV-RasV12 Vector	<i>EcoR</i> I, <i>BamH</i> I	4.0 & 0.6 kb

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

APPROVED BY: \_\_\_\_\_



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