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## PRODUCT: p53 Dominant-Negative Vector Set

<p><b>CATALOG No.</b> 631922</p> <p><b>LOT NUMBER</b> Specified on product label.</p> <p><b>STORAGE BUFFER</b> 10 mM Tris-HCl (pH 8.0) 1 mM EDTA (pH 8.0)</p> <p><b>STORAGE CONDITIONS</b> • Store plasmids at <math>-20^{\circ}\text{C}</math>. • Spin briefly to recover contents. • Avoid repeated freeze/thaw cycles.</p> <p><b>SHELF LIFE</b> 1 year from date of receipt under proper storage conditions.</p> <p><b>SHIPPING CONDITIONS</b> Blue ice (<math>4^{\circ}\text{C}</math>) or dry ice (<math>-70^{\circ}\text{C}</math>).</p> <p><b>FOR RESEARCH USE ONLY</b></p>	<p><b>AMOUNT</b> each</p> <p><b>DESCRIPTION</b> Set of two vectors for studying p53 and 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.</p> <p><b>VECTOR CONCENTRATIONS</b> 500 ng/<math>\mu\text{l}</math> each</p> <p><b>PLASMID SIZES</b> 5.2 kb each</p> <p><b>ANTIBIOTIC RESISTANCE</b> Kanamycin (50 <math>\mu\text{g}/\text{ml}</math>; for propagation in <i>E. coli</i>)</p> <p><b>PACKAGE CONTENTS</b></p> <ul style="list-style-type: none"> <li>• 1 tube of pCMV-p53 Vector (20 <math>\mu\text{g}</math>)</li> <li>• 1 tube of pCMV-p53mt135 Vector (20 <math>\mu\text{g}</math>)</li> </ul> <p><b>OTHER</b></p> <ul style="list-style-type: none"> <li>• Vector Information Packet (PT3348-5)</li> </ul>
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### QUALITY CONTROL DATA

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

	<b>Enzymes</b>	<b>Fragments</b>
pCMV-p53	<i>Hind</i> III	5.2 kb
	<i>Hind</i> III, <i>Eco</i> R I	4.0 & 1.2 kb
pCMV-p53mt135	<i>Hind</i> III	5.2 kb
	<i>Hind</i> III, <i>Eco</i> R I	4.0 & 1.2 kb

- The presence of the correct p53 variant was also confirmed by sequencing.
- $A_{260}/A_{280}$ : 1.8–2.0

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



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