



Applied Biological Materials Inc.

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## CMV-p53 Adenovirus (Human)

| Cat. No. | Quantity  | Titer                     | Accession Number |
|----------|-----------|---------------------------|------------------|
| 000024A  | 1.0 ml*** | >1x10 <sup>6</sup> pfu/mL | P04637           |

\*\*\*Please note: In cases where production excess is available, the delivered product may exceed this volume.

|                               |   |
|-------------------------------|---|
| <b>Description</b>            | This adenovirus is part of abm's <a href="#">Adenoviral Expression System</a> and can be used directly to transiently over-express your gene of interest in a wide range of host cells. This adenovirus can be used to amplify more adenovirus by transducing HEK293 cells. For enhanced transduction efficiency, the use of <a href="#">ViralPlus (G698)</a> at 1:100 is recommended at the time of transduction.  |
| <b>Vector</b>                 | pAdeno  |
| <b>Promoter</b>               | CMV   |
| <b>Insert</b>                 |   |
| <b>Organism</b>               | Human   |
| <b>Accession #</b>            | P04637  |
| <b>Alias</b>                  | Tp53  |
| <b>Protein Type</b>           | tumor protein p53, Cell Cycle Regulator   |
| <b>Protein Family</b>         | P53 Family  |
| <b>Functions</b>              | p53 acts as a tumor suppressor in many tumor types which induces growth arrest or apoptosis depending on the physiological circumstances and cell type. This protein involved in cell cycle regulation as a trans-activator that acts to negatively regulate cell division by controlling a set of genes required for this process. p53 is one of the activated genes is an inhibitor of cyclin-dependent kinases. Apoptosis induction seems to be mediated either by stimulation of BAX and Fas antigen expression or by repression of Bcl2 expression.  |
| <b>Cell Types</b>             | Widely expressed  |
| <b>Protein Location</b>       | Cytoplasm. Nucleus. Endoplasmic reticulum. Note=Interaction with BANP   |
| <b>Chromosome</b>             | 17p13.1   |
| <b>Protein Structure</b>      | p53 contains 393 amino acids and has an approximate molecular weight of 43653 Da. This protein has a core domain, which contains the sequence specific of DNA binding proteins, a loop-sheet-helix motif and a C terminal tetramerization domain.   |
| <b>Gene Type</b>              | Wild Type. Mutants can be constructed via custom services. Please refer to our <a href="#">custom service page</a> or contact our <a href="#">technical support</a> for more info.  |
| <b>Titer</b>                  | >1x10 <sup>6</sup> pfu/mL   |
| <b>Storage Buffer</b>         | DMEM with 2.5% glycerol   |
| <b>Shipping &amp; Storage</b> | High titer adenoviruses are shipped with dry ice and low titer adenoviruses are shipped with ice packs. For long term storage, it is recommended to store the viruses at -80°C in small aliquots to avoid repeated freeze-thaw cycles.  |
| <b>Disclaimer</b>             | <p>1. Disclaimer for transcript variants: The provided accession number refers to the transcript (mRNA) sequence for this product. The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. All sales are final.</p> <p>2. The provided accession number refers to the transcript (mRNA) sequence for this product. Please verify that this is the desired transcript sequence by cross-referencing. This is important because a single gene can have multiple different transcripts owing to naturally occurring variations. All sales are final.</p> <p>3. Disclaimer for intended use: All of abm's vectors and viral particles are for research use ONLY and NOT for therapeutic/diagnostic applications. abm is not liable for any repercussions arising from the use of its vector(s) in therapeutic/diagnostic application(s).</p> <p>4. Disclaimer for extra nucleotides: Cloning may lead to the insertion of extra nucleotides at the 5' or 3' end of the gene of interest which, in most cases, is innocuous to the stability/functionality and the expression of that gene.</p> |

**Caution:** This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information (1-866-757-2414).