

## Product datasheet for **RN201296**

### **Tp53 (NM\_030989) Rat Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tp53 (NM_030989) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Tp53
Synonyms:	p53; Trp53
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN201296 representing NM_030989 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAGGATTCACAGTCGGATATGAGCATCGAGCTCCCTCTGAGTCAGGAGACATTTTCATGCTTATGGA  
 AACTTCTCTCCAGATGATATTCTGCCACCACAGCGACAGGGTCACCTAATTCATGGAAGATCTGTT  
 CCTGCCCCAGGATGTTGCAGAGTTGTTAGAAGGCCAGAGGAAGCCCTCCAAGTGCAGCTCCTGCAGCA  
 CAGGAACCTGGAAGTGAAGCCCTGCACCCGTGGCCCTGCTTCAGCTACACCGTGGCCTCTGTCATCTT  
 CCGTCCCTTCTCAAAAACTTACCAAGGCAACTATGGCTTCCACCTGGGCTTCTGCAGTCAGGGACAGC  
 CAAGTCTGTTATGTGCAGTACTCAATTTCCCTCAATAAGCTGTTCTGCCAGCTGGCGAAGACATGCCCT  
 GTGCAGTTGTGGGTACCTCCACACCTCCACCTGGTACCCGTGTCCGTGCCATGGCCATCTACAAGAAGT  
 CACAACACATGACTGAGGTCTGAGACGCTGCCCCACCATGAGCGTTGCTCTGATGGTGACGGCCTGGC  
 TCCTCCCCAACATCTTATCCGGGTGGAAGGAAATCCGTATGCTGAGTATCTGGACGACAGGCAGACTTTT  
 CGGCACAGCGTGGTGGTACCGTATGAGCCACCTGAGGTCGGCTCCGACTATACCACTATCCACTACAAGT  
 ACATGTGCAACAGCTCCTGCATGGGGGGCATGAACCGCCGGCCCATCCTTACCATCATCAGCTGGAAGA  
 CTCCAGTGGGAATCTTCTGGGACGGGACAGCTTTGAGGTTCTGTTTGTGCCTGTCTGGGAGAGACCGT  
 CGGACAGAGGAAGAAAATTTCCGCAAAAAGAAGAGCATTGCCCGGAGCTGCCCCAGGGAGTGCAAAGA  
 GAGCACTGCCACCAGCACAAGCTCCTCTCCCAGCAAAAGAAAAACCACTCGATGGAGAATATTTTAC  
 CCTTAAGATCCGTGGGCGTGAGCGCTTCGAGATGTTCCGAGAGCTGAATGAGGCCTTGGAATTAAGGAT  
 GCCCGTGTGCCGAGGAGTCAGGAGACAGCAGGGCTCACTCCAGCTACCGAAGACCAAGAAGGGCCAGT  
 CTACGTCCCGCCATAAAAAACCAATGATCAAGAAAGTGGGCGCTGACTCAGAC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA


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<b>Chromatograms:</b>	<a href="https://cdn.origene.com/chromatograms/ja1734_e02.zip">https://cdn.origene.com/chromatograms/ja1734_e02.zip</a>
<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_030989
<b>Insert Size:</b>	1176 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_030989.3</a> , <a href="#">NP_112251.2</a>
<b>RefSeq Size:</b>	1792 bp
<b>RefSeq ORF:</b>	1176 bp
<b>Locus ID:</b>	24842
<b>UniProt ID:</b>	<a href="#">P10361</a>
<b>Cytogenetics:</b>	10q24

**Gene Summary:**

This gene encodes tumor protein p53, which responds to diverse cellular stresses to regulate target genes that induce cell cycle arrest, apoptosis, senescence, DNA repair, or changes in metabolism. p53 protein is expressed at low level in normal cells and at a high level in a variety of transformed cell lines, where it is believed to contribute to transformation and malignancy. p53 is a DNA-binding protein containing transcription activation, DNA-binding, and oligomerization domains. It is postulated to bind to a p53-binding site and activate expression of downstream genes that inhibit growth and/or invasion, and thus function as a tumor suppressor. Alternatively spliced transcript variants have been found for this gene, but the biological validity of the variants has not been determined. p53 pseudogenes have been found on chromosomes 9 and 18. [provided by RefSeq, Jul 2008]