

## Product datasheet for **MC216819**

### Trp73 (NM\_001126331) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Trp73 (NM_001126331) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Trp73
Synonyms:	delta; deltaNp73; p7; p73; TAp; TAp73; Tp73
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC216819 representing NM\_001126331  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGC**

ATGCTTTACGTCGGTGACCCCATGAGACACCTCGCCACGCCAGTTCAATTTGCTCAGCAGTGCCATGG  
 ACCAGATGGGCAGCCGTGCGGCCCGGCCGAGCCCTACACCCGGAGCAGCCGCCAGCGGCCACCCA  
 CTCGCCCTACGCGCAGCCAGCTCCACCTTCGACACCATGTCTCCGGCGCCTGTATCCCTTCCAATACC  
 GACTACCCCGGCCCCACCACTTCGAGGTACCTTCAGCAGTCGAGCACTGCCAAGTCGCCACCTGGA  
 CATACTCCCACTCTTGAAGAAGTTGTACTGTCAGATTGCTAAGACATGCCCCATCCAGATCAAAGTGTC  
 CACACCACACCCCGGCCACGGCCATCCGGGCCATGCCTGTCTACAAGAAGGCAGAGCATGTGACCGAC  
 ATTGTTAAGCGTGCCCCAACACGAGCTTGAAGGGACTTCAATGAAGGACAGTCTGCCCCGGCTAGCC  
 ACCTCATCCGTGTAGAAGGCAACAACCTCGCCAGTACGTGGATGACCCTGTACCGGAAGGCAGAGTGT  
 GGTGTGCCGTATGAACCCACAGGTGGGAACAGAATTTACCACCATCCTGTACAACCTCATGTGTAAAC  
 AGCAGCTGTGTGGGGGGCATGAATCGGAGGCCCATCCTTGTATCATCACCTGGAGACCCGGGATGGAC  
 AGGTCCTGGGCCCGCGGTCTTTCGAGGGTCGCATCTGTGCTGTCTGCGGTGACCGCAAAGCTGATGA  
 AGACATTACCGGGAGCAACAGGCTCTGAATGAAAGTACCACCAAAATGGAGTGCCAGCAAACGTGCA  
 TTCAAGCAGAGCCCCCTGCCATCCCTGCCCTGGGTACCAACGTGAAGAAGAGACGCCACGGGACGAGG  
 ACATGTTCTACATGCACGTGCGAGGCGGGGAGAACTTTGAGATCTTGATGAAAGTCAAGGAGAGCCTAGA  
 ACTGATGGAGCTTGTGCCCCAGCCTTTGGTTGACTCCTATCGACAGCAGCAGCAGCAGCAGCTCTACAG  
 AGGCCTTTTTTGACAGGGTTGGGGTGTCAAACTGCATCGAGTGCTTCACTTCCCAAGGGTTCAGAGCA  
 TCTACCACCTGCAGAACCTTACCATCGAGGACCTTGGGGCTCTGAAGTCCCTGACCAAGTACCGTATGAC  
 CATCTGGAGGGGCTACAGGACCTGAAGCAGAGCCATGACTGCGGCCAGCAACTGTACGCTCCAGCAGC  
 AACCGCGCCACCATCTCCATCGGCGGCTCTGGCGAGCTGCAGCGGCAGCGGGTCATGGAAGCCGTGCATT  
 TCCGTGTGCGCCACCATCACGATCCCAACCGTGGAGGCGCAGGTGCGGTGACAGGTCCCGACGAGTG  
 GGCGGACTTTGGCTTTGACCTGCCTGACTGCAAGTCCCGTAAGCAGCCCATCAAAGAGGAGTTCACAGAG  
 ACAGAGAGCCAC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001126331  
**Insert Size:** 1485 bp  
**OTI Disclaimer:**

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 [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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. [More info](#)

<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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<u>NM_001126331.1, NP_001119803.1</u>
<b>RefSeq Size:</b>	4468 bp
<b>RefSeq ORF:</b>	1485 bp
<b>Locus ID:</b>	22062
<b>UniProt ID:</b>	<u>Q9JJP2</u>
<b>Cytogenetics:</b>	4 83.79 cM
<b>Gene Summary:</b>	<p>This gene encodes tumor protein p73, which is a member of the p53 family of transcription factors involved in cellular responses to stress and development. The family members include p53, p63, and p73 and have high sequence similarity to one another, which allows p63 and p73 to transactivate p53-responsive genes causing cell cycle arrest and apoptosis. The family members can interact with each other in many ways involving direct or indirect protein interactions, resulting in regulation of the same target gene promoters or regulation of each other's promoters. The p73 protein is expressed at very low levels in normal tissues and is differentially expressed in a number of tumors. The p73 gene expresses at least 35 mRNA variants due to the use of alternate promoters, alternate translation initiation sites, and multiple splice variations. Theoretically this can account for 29 different p73 isoforms; however, the biological validity and the full-length nature of most variants have not been determined. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (3) is an alternate promoter product; it lacks a few of 5' exons and two internal exons in the 3' region, but has an alternate 5' exon, as compared to variant 1. The resulting isoform c, also known as DNp73zeta, has a shorter and different N-terminus and lacks an internal segment in the C-terminal region, as compared to isoform a.</p>