

## Product datasheet for **MC219403**

### Trp73 (NM\_001126330) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Trp73 (NM_001126330) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Trp73
Synonyms:	delta; deltaNp73; p7; p73; TAp; TAp73; Tp73
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC219403 representing NM\_001126330  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCTTTACGTCGGTGACCCCATGAGACACCTCGCCACGGCCAGTTCAATTTGCTCAGCAGTGCCATGG  
 ACCAGATGGGCAGCCGTGCGGCCCGGGGAGCCCTACACCCCGAGCAGCCGCCAGCGGCCACCCA  
 CTCGCCCTACGCGCAGCCAGCTCCACCTTCGACACCATGTCTCCGGCGCCTGTCAATCCCTTCCAATACC  
 GACTACCCCGGCCCCACCACCTTCGAGGTCACCTTCAGCAGTCGAGCACTGCCAAGTCGGCCACCTGGA  
 CATACTCCCACTCTTGAAGAAGTTGACTGTCAGATTGCTAAGACATGCCCATCCAGATCAAAGTGTC  
 CACACCACCACCCCGGGCACGGCCATCCGGGCCATGCCTGTCTACAAGAAGGCAGAGCATGTGACCGAC  
 ATTTGTTAAGCGCTGCCCAACCACGAGCTTGAAGGGACTTCAATGAAGGACAGTCTGCCCGGCTAGCC  
 ACCTCATCCGTGTAGAAGCAACAACCTCGCCAGTACGTGGATACCCTGTACCAGGAGGAGCAGAGTGT  
 GGTGTGCGGTATGAACCCACAGGTGGGAACAGAATTTACCACCATCCTGTACAACCTCATGTGTAAC  
 AGCAGCTGTGGGGGGCATGAATCGGAGGCCATCCTTGTATCATCACCTGGAGACCCGGGATGGAC  
 AGGTCCTGGGCCCGCGTCTTCGAGGGTCGCATCTGTGCTGTCTGGCCGTGACCGCAAAGCTGATGA  
 AGACATTACCGGGAGCAACAGGCTCTGAATGAAAGTACCACAAAAATGGAGCTGCCAGCAAACGTGCA  
 TTCAAGCAGAGCCCCCTGCCATCCCTGCCCTGGGTACCAACGTGAAGAAGAGACGCCACGGGGACGAGG  
 ACATGTTCTACATGCACGTGCGAGGCGGGGAGAACTTTGAGATCTTGATGAAAGTCAAGGAGAGCCTAGA  
 ACTGATGGAGCTTGTGCCACGCTTTGGTTGACTCCTATCGACAGCAGCAGCAGCAGCAGCTCCTACAG  
 AGGCCGAGTCACTGCAGCCTCCATCCTATGGGCCGTGCTCTCCCAATGAACAAGGTACACGGTGGTG  
 TCAACAAACTGCCCTCCGTCAACCAGCTGGTGGGCCAGCCTCCCCGCACAGCTCAGCAGCTGGGCCAA  
 CCTGGGGCCCATGGGCTCCGGGATGCTCAACAGCCACGGCCACAGCATGCCGGCCAATGGTGAGATGAAT  
 GGAGGCCACAGCTCCAGACCATGGTTTCGGGATCCCACTGCACCCCGCCACCCCTATCATGCAGACC  
 CCAGCCTCGTCAGTTTTTTGACAGGGTTGGGGTGTCCAACTGCATCGAGTGCTTCACTTCCCAAGGTT  
 GCAGAGCATCTACCACCTGCAGAACCTTACCATCGAGGACCTTGGGGCTCTGAAGGTCCCTGACCAGTAC  
 CGTATGACCATCTGGAGGGGCTACAGGACCTGAAGCAGAGCCATGACTGCGGCCAGCAACTGCTACGCT  
 CCAGCAGCAACCGGCCACCATCCTATCGGCGGCTCTGGCGAGCTGCAGCGGCAGCGGGTTCATGGAAGC  
 CGTGCATTTCCGTGTGCCACACCATCAGATCCCAACCGTGGAGGCGCAGGTGCGGTGACAGGTCCC  
 GACGAGTGGGCGGACTTTGGCTTTGACCTGCCTGACTGCAAGTCCCGTAAGCAGCCCATCAAAGAGGAGT  
 TCACAGAGACAGAGGCCACTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001126330

**Insert Size:** 1773 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**Components:** 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).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

**RefSeq:** [NM\\_001126330.1](#), [NP\\_001119802.1](#)

**RefSeq Size:** 4756 bp

**RefSeq ORF:** 1773 bp

**Locus ID:** 22062

**UniProt ID:** [Q9JJP2](#)

**Cytogenetics:** 4 83.79 cM

**Gene Summary:** 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]

Transcript Variant: This variant (2) is an alternate promoter product; it lacks a few of 5' exons but has an alternate 5' exon, as compared to variant 1. The resulting isoform b, also known as DNp73alpha, has a shorter and different N-terminus, as compared to isoform a.