

Product datasheet for **MR227042**

Trp73 (NM_011642) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trp73 (NM_011642) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide
Sequence:

>MR227042 representing NM_011642
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGAGCGGCAGCGTTGGGGAGATGGCCAGACCTCTTCTCTCCTCCTCCACCTTCGAGCACCTGTGGA
 GTTCTCTAGAGCCAGACAGCACCTACTTTGACCTCCCCAGCCAGCCAAGGGACTAGCGAGGCATCAGG
 CAGCGAGGAGTCCAACATGGATGTCTTCCACCTGCAAGGCATGGCCAGTTCAATTTGCTCAGCAGTGCC
 ATGGACCAGATGGGCAGCCGTGCGGCCCGGCGAGCCCTACACCCCGAGCAGCCGCCAGCGGCCCA
 CCCACTCGCCCTACGCGCAGCCAGCTCCACCTTCGACACCATGTCTCGGCGCCTGTATCCCTTCCAA
 TACCGACTACCCCGGCCCCACCACTTCGAGGTACCTTCAGCAGTGCAGCACTGCCAAGTCGGCCACC
 TGGACATACTCCCACTTTGAAGAAGTTGTACTGTGAGATTGCTAAGACATGCCCCATCCAGATCAAAG
 TGTCCACACCACCACCCCGGGCAGGCCATCCGGGCCATGCCTGTCTACAAGAAGCAGAGCATGTGAC
 CGACATTGTTAAGCGCTGCCCAACCACGAGCTTGAAGGGACTTCAATGAAGGACAGTCTGCCCGGCT
 AGCCACCTCATCCGTGTAGAAGGCAACAACCTCGCCAGTACGTGGATGACCCTGTACCCGGAAGGCAGA
 GTGTGGTTGTGCCGTATGAACCCCCACAGGTGGGAACAGAATTTACCACCATCCTGTACAATTCATGTG
 TAACAGCAGCTGTGTGGGGGCATGAATCGGAGGCCATCCTTGTATCATCACCCCTGGAGACCCGGGAT
 GGACAGGTCTGGGCCGCGGCTTTTCGAGGGTGCATCTGTGCCTGTCTGGCCGTGACCCGAAAGCTG
 ATGAAGACCATTACCGGAGCAACAGGCTCTGAATGAAAGTACCACAAAAATGGAGTGCCAGCAAACG
 TGCAATTAAGCAGAGCCCCCTGCCATCCCTGCCCTGGTACCAACGTGAAGAAGAGAGCCACGGGGAC
 GAGGACATGTTCTACATGCACGTGCGAGGCCGGGAGAATTTGAGATCTTGATGAAAGTCAAGGAGAGCC
 TAGAACTGATGGAGCTTGTGCCACGCTTTGGTTGACTCCTATCGACAGCAGCAGCAGCAGCAGCTCCT
 ACAGAGGCCGAGTCACTGCAGCCTCATCCTATGGGCCCGTGTCTCCCAATGAACAAGTACACGGT
 GGTGTCAACAACTGCCCTCCGTCAACCAGCTGGTGGGCCAGCCTCCCCGCACAGCTCAGCAGCTGGC
 CCAACCTGGGGCCATGGGCTCCGGGATGCTCAACAGCCACGGCCACAGCATGCCGGCCAAATGGTGAAT
 GAATGGAGGCCACAGCTCCAGACCATGGTTTCGGGATCCCACTGCACCCCGCCACCCCTATCATGCA
 GACCCAGCCTCGTCAGTTTTTTGACAGGGTGGGGTGTCCAACTGCATCGAGTGCTTCACTTCCCAAG
 GGTTCAGAGCATCTACCACCTGCAGAACCTTACCATCGAGGACCTTGGGGCTCTGAAGTCCCTGACCA
 GTACCGTATGACCATCTGGAGGGCCTACAGGACCTGAAGCAGAGCCATGACTGCGGCCAGCAACTGCTA
 CGCTCCAGCAGCAACCGGCCACCATCTCCATCGGCGGCTCTGGCGAGCTGCAGCGGCAGCGGGTATGG
 AAGCCGTGCAATTCCTGTGCGCCACACCATCACGATCCCAACCGTGGAGGCGCAGGTGCGGTGACAGG
 TCCCGACGAGTGGGCGGACTTTGGCTTTGACCTGCCTGACTGCAAGTCCCGTAAGCAGCCATCAAAGAG
 GAGTTCACAGAGACAGAGAGCCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR227042 representing NM_011642
 Red=Cloning site Green=Tags(s)

MSGSVGEMAQTSSSSSSTFEHLWSSLEPDSTYFDLPQPSQGTSEASGSEESNMDVFHLQGMAQFNLLSSA
 MDQMGSRAAPASPYTPEHAASAPTHSPYAQPSSFTDMSPAPVIPSN TDYPGPHHFVTFQSSSTAKSAT
 WTYSPLLLKLYCQIAKTCPIQIKVSTPPPGTAIRAMPVYKKAHVTDIVKRCPNHELGRDFNEGQSAPA
 SHLIRVEGNLAQYVDDPVTGRQSVVVPYEPQVGTEFTTILYNFMCNSSCVGGMNRRPILVIITLETRD
 GQVLGRRSFEGRICACPGDRKADEHDHYEQALNESTTKNGAASKRAFKQSPPAIPALGTNVKKRRHGD
 EDMFYMHVIRGRENFEILMKVKESLELMELVPQPLVDSYRQQQQQLLQRP SHLQPPSYGPNLSPMNKLVHG
 GVNKLPVSNQLVGQPPPHSSAAGPNL GPMGSGMLNSHGHSMPANGEMNGGHSSQTMVSGSHCTPPPPYHA
 DPSLVSFLTGLGCPNCIECFTSQGLQSIYHLQNL TIEDLGALKVPDQYRMTIWRGLQDLKQSHDCGQQLL
 RSSSNAATISIGGSGELQRQRVMEAVHFRVHTITIPNRGGAGAVTGPDEWADFGFDLPDCKSRKQPIKE
 EFTETESH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_011642

ORF Size: 1914 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 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_011642.3](#), [NP_035772.2](#)

RefSeq Size: 5046 bp

RefSeq ORF: 1896 bp

Locus ID: 22062

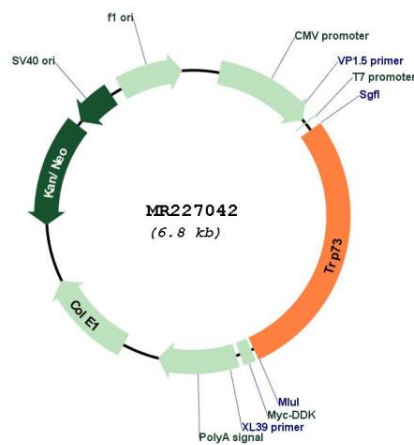
UniProt ID: [Q9JJP2](#)

Cytogenetics: 4 83.79 cM

MW: 70.2 kDa

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]

Product images:


Circular map for MR227042