

## Product datasheet for **MG209197**

### Trp73 (BC066045) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Trp73 (BC066045) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Trp73
Synonyms:	deltaNp73; p73; TAp73; Tp73
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG209197 representing BC066045  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTTTACGTCGGTGACCCCATGAGACACCTCGCCACGGCCAGTTCAATTTGCTCAGCAGTGCCATGG  
 ACCAGATGGGCAGCCGTGCGGCCCGGGGAGCCCTACACCCCGAGCAGCCGCCAGCGGCCACCCA  
 CTCGCCCTACGCGCAGCCAGCTCCACCTTCGACACCATGTCTCCGGCGCCTGTCAATCCCTTCCAATACC  
 GACTACCCCGGCCCCACCACCTTCGAGGTCACCTTCAGCAGTCGAGCACTGCCAAGTCGGCCACCTGGA  
 CATACTCCCACTCTTGAAGAAGTTGACTGTCAGATTGCTAAGACATGCCCCATCCAGATCAAAGTGTC  
 CACACCACCACCCCGGGCACGGCCATCCGGGCCATGCCTGTCTACAAGAAGGCAGAGCATGTGACCGAC  
 ATTGTTAAGCGCTGCCCAACCACGAGCTTGAAGGGACTTCAATGAAGGACAGTCTGCCCGGCTAGCC  
 ACCTCATCCGTGTAGAAGCAACAACCTCGCCAGTACGTGGATGACCCTGTACCAGGAGGAGCAGAGTGT  
 GGTGTGCGGTATGAACCCACAGGTGGGAACAGAATTTACCACCATCCTGTACAACCTCATGTGTAAC  
 AGCAGCTGTGGGGGGCATGAATCGGAGGCCATCCTTGTATCATCACCTGGAGACCCGGGATGGAC  
 AGGTCCTGGGCCCGGCTTTTCGAGGGTCGCATCTGTGCCTGTCTGGCCGTGACCGCAAAGCTGATGA  
 AGACATTACCGGGAGCAACAGGCTCTGAATGAAAGTACCACAAAAATGGAGCTGCCAGCAAACGTGCA  
 TTCAAGCAGAGCCCCCTGCCATCCCTGCCCTGGGTACCAACGTGAAGAAGAGACGCCACGGGGACGAGG  
 ACATGTTCTACATGCACGTGCGAGGCGGGGAGAAGTTGAGATCTTGATGAAAGTCAAGGAGAGCCTAGA  
 ACTGATGGAGCTTGTGCCACGCTTGGTTGACTCCTATCGACAGCAGCAGCAGCAGCAGCTCCTACAG  
 AGGCCGAGTCACTGCAGCTCCATCCTATGGGCCGTGCTCTCCCAATGAACAAGGTACACGGTGGCCAA  
 TCAACAAACTGCCCTCCGTCAACCAGCTGGTGGGCCAGCTCCCCGCACAGCTCAGCAGCTGGGCCAA  
 CCTGGGGCCCATGGGCTCCGGGATGCTCAACAGCCACGGCCACAGCATGCCGGCCAATGGTGAGATGAAT  
 GGAGGCCACAGCTCCAGACCATGGTTTCGGGATCCCACTGCACCCCGCCACCCCTATCATGCAGACC  
 CCAGCCTCGTCAGTTTTTTGACAGGGTTGGGTGTCCAACTGCATCGAGTGCTTCACTTCCCAAGGTT  
 GCAGAGCATCTACCACCTGCAGAACCTTACCATCGAGGACCTTGGGGCTCTGAAGTCCCTGACCAGTAC  
 CGTATGACCATCTGGAGGGGCTACAGGACCTGAAGCAGAGCCATGACTGCGGCCAGCAACTGCTACGCT  
 CCAGCAGCAACCGGCCACCATCTCCATCGCGGCTCTGGCGAGCTGCAGCGGCAGCGGGTTCATGGAAGC  
 CGTGCATTTCCGTGTGCCACACCATCAGATCCCAACCGTGGAGGCGCAGGTGCGGTGACAGGTCCC  
 GACGAGTGGGCGGACTTTGGCTTTGACCTGCCTGACTGCAAGTCCCGTAAGCAGCCCATCAAAGAGGAGT  
 TCACAGAGACAGAGGCCAC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>MG209197 representing BC066045  
 Red=Cloning site Green=Tags(s)

MLYVGDPMRHLATAQFNLLSSAMDQMGSRAPASPYTPEHAASAPTHSPYAQPSSTFDTMSPAPVIPSNT  
 DYPGPHHFVTFQSSSTAKSATWTYSPLLKLYCQIAKTCPIQIKVSTPPPPGTAIRAMPVYKKAHVTD  
 IVKRCPNHELGRDFNEGQSAPASHLIRVEGNNLAQYVDDPVTGRQSVVVPYEPQVGTFTTILYNFMCN  
 SSCVGGMNRPIILVIITLETRDQVLGRRSFEGRICACPGDRKKADEHDHYREQQALNESTTKNGAASKRA  
 FKQSPPAIPALGTNVKRRRHGDEDMFYMHVGRGNFEILMKVKESELELMELVPQPLVDSYRQQQQQLLQ  
 RPSHLQPPSYGPVLSMNVKHGGVKNLPSVNQLVGQPPHSSAAGPNLGPMSGMLNSHGHSMANGEMN  
 GGSSQTMVSGSHCTPPPPYHADPSLVSFLTGLGCPNIECFTSQGLQSIYHLQNLTIEDLGALKVPDQY  
 RMTIWRGLQDLKQSHDCGQQLLRSSSNAATISIGGSGELQRQVMEAVHFRVRHTITIPNRGGAGAVTGP  
 DEWADFGFDLPDCKSRKQPIKEEFTETESH

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** BC066045

**ORF Size:** 1772 bp

**OTI Disclaimer:** 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:** [BC066045](#), [AAH66045](#)

**RefSeq Size:** 2634 bp

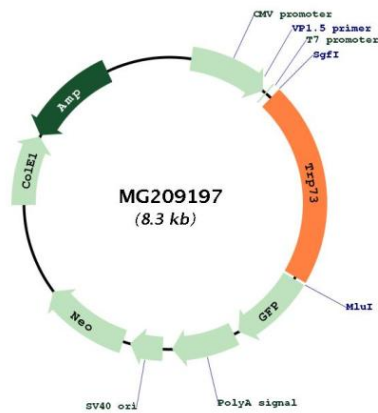
**RefSeq ORF:** 1772 bp

**Locus ID:** 22062

**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]

**Product images:**

Circular map for MG209197