

Product datasheet for **RG234420**

p73 (TP73) (NM_001204187) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	p73 (TP73) (NM_001204187) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	p73
Synonyms:	P73
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234420 representing NM_001204187
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCCAGTCCACCGCCACCTCCCTGATGGGGCACCACGTTTGGACCTCTGGAGCTCTCTGGAAC
 CAGACAGCACCTACTTCGACCTTCCCAGTCAAGCCGGGGAATAATGAGGTGGTGGGCGGAACGGATTC
 CAGCATGGACGTCTTCCACCTGGAGGGCATGACTACATCTGTTCATGGCCAGTCAATCTGCTGAGCAGC
 ACCATGGACCAGATGAGCAGCCGCGCGCCTCGGCCAGCCCTACACCCAGAGCAGCCGCCAGCGTGC
 CCACCCACTCGCCCTACGCACAACCCAGCTCCACCTTCGACACCATGTCGCCGGCGCCTGTCATCCCTC
 CAACACCGACTACCCCGACCCACCACCTTTGAGGTCACTTTCCAGCAGTCCAGCAGGCCAAGTCAGCC
 ACCTGGACGTACTCCCGCTCTGAAGAACTCTACTGCCAGATCGCAAGACATGCCCATCCAGATCA
 AGGTGTCCACCCGCCACCCAGGACCGCCATCCGGGCCATGCCTGTTTACAAGAAAGCGGAGCAGT
 GACCGAGTCTGTAACGCTGCCCAACCAGAGCTCGGGAGGGACTTCAACGAAGGACAGTCTGTCCA
 GCCAGCCACCTCATCCGGTGAAGGAATAATCTCTCGCAGTATGTGGATGACCCTGTCACCGGACGGC
 AGAGCGTCTGGTGCCTATGAGCCACCACAGGTGGGGACGGAATTCACCACCATCCTGTACAATTCAT
 GTGTAACAGCAGCTGTGTAGGGGCATGAACCGCGGCCCATCCTCATCATCACCCCTGGAGATGCGG
 GATGGGACGGTCTGGCCGCGCGTCTTTGAGGGCCGATCTGCGCCTGTCTGGCCGCGACCGAAAAG
 CTGATGAGGACCACTACCGGGAGCAGCAGGCCCTGAACGAGAGCTCCGCCAAGAACGGGGCCGACGAA
 GCGTGCCTTCAAGCAGAGCCCCCTGCCGTCCCGCCCTTGGTCCGGTGTGAAGAAGCGGGCCGATGGA
 GACGAGGACACGTACTACCTTCAGGTGCGAGGCCGGGAGAAGTTGAGATCCTGATGAAGCTGAAAGAGA
 GCCTGGAGCTGATGGAGTTGGTCCCGCAGCCACTGGTGGACTCCTATCGGCAGCAGCAGCAGCTCCTACA
 GAGGCCGCCCGGATGCTCAACAACCATGGCCACGAGTCCAGCCAACGGCGAGATGAGCAGCAGGCCA
 CAGCGCCAGTCCATGGTCTCGGGTCCCACTGCACTCCGCCACCCCTACCACGCCGACCCAGCCTC
 GTCAGGACCTGGGGCCCTGAAGATCCCGAGCAGTACCGCATGACCATCTGGCGGGCCTGCGAGGACCT
 GAAGCAGGGCCACGACTACAGCACCGCGCAGCAGCTGCTCCGCTTAGCAACCGGCCACCATCTCCATC
 GCGGGCTCAGGGAACTGCAGCGCCAGCGGTCATGGAGGCCGTGCACTTCCGCTGCGCCACACCATCA
 CCATCCCCAACCGCGCGGCCAGGCGCGGCCCTGACGAGTGGGCGGACTTCGGCTTCGACCTGCCCGA
 CTGCAAGGCCCGAAGCAGCCATCAAGGAGGAGTTCACGGAGGCCGAGATCCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG234420 representing NM_001204187
 Red=Cloning site Green=Tags(s)

MAQSTATSPDGGTTFEHLWSSLEPDSTYFDLPQSSRGNNVVGTDSSMDVFLHLEGMTTSVMAQFNLLSS
 TMDQMSSRAASAPYTPPEHAASVPTHSPYAQPSSTFDTMSPAPVIPSNTDYPGPHHFVTFQSSSTAKSA
 TWTYSPLLLKLYCQIAKTCPIQIKVSTPPPGTAIRAMPVYKKAHVTDVVKRCPNHELGRDFNEGQSAP
 ASHLIRVEGNLSQYVDDPVTGRQSVVVPYEPQVGTEFTTILYNFMCNSSCVGGMNRRPILIIITLEMR
 DGQVLGRRSFEGRICACPRDRKADEDHYEQALNESSAKNGAASKRAFQSPPAVPALGAGVKKRRHG
 DEDTYLQVRGRENFEILMKLKESELMELVPQPLVDSYRQQQLLQRPPRDAQQPWPRSASQRDEQQP
 QRPVHGLGVPLHSATPLPRRPQPRQDLGALKIPEQYRMTIWRGLQDLKQGHDYSTAQQLRSSNAATISI
 GSGELQRQVMEAVHFRVRHTITIPNRGGPGGPDEWADFGFDLPDCKARKQPIKEEFTEAEIH

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001204187

ORF Size: 1665 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: [NM_001204187.1](#), [NP_001191116.1](#)

RefSeq Size: 4911 bp

RefSeq ORF: 1668 bp

Locus ID: 7161

UniProt ID: [O15350](#)

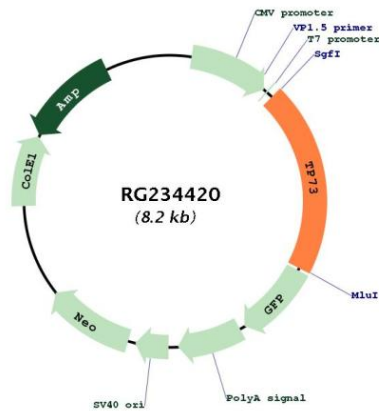
Cytogenetics: 1p36.32

Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: Neurotrophin signaling pathway, p53 signaling pathway

Gene Summary: This gene encodes a member of the p53 family of transcription factors involved in cellular responses to stress and development. It maps to a region on chromosome 1p36 that is frequently deleted in neuroblastoma and other tumors, and thought to contain multiple tumor suppressor genes. The demonstration that this gene is monoallelically expressed (likely from the maternal allele), supports the notion that it is a candidate gene for neuroblastoma. Many transcript variants resulting from alternative splicing and/or use of alternate promoters have been found for this gene, but the biological validity and the full-length nature of some variants have not been determined. [provided by RefSeq, Feb 2011]

Product images:



Circular map for RG234420