

## Product datasheet for **RG234310**

### **p73 (TP73) (NM\_001204190) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	p73 (TP73) (NM_001204190) 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:**

>RG234310 representing NM\_001204190  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCTGTACGTCGGTGACCCCGCACGGCACCTCGCCACGGCCAGTTCAATCTGCTGAGCAGCACCATGG  
 ACCAGATGAGCAGCCGCGCGGCCTCGGCCAGCCCTACACCCAGAGCAGCCGCCAGCGTGCCACCCA  
 CTCGCCCTACGCACAACCCAGCTCCACCTTCGACACCATGTGCGCCGGCGCCTGTCAATCCCTCCAACACC  
 GACTACCCCGGACCCCACTTTGAGGTCACTTTCCAGCAGTCCAGCACGGCCAAGTCAGCCACCTGGA  
 CGTACTCCCCGCTCTTGAAGAACTCTACTGCCAGATCGCAAGACATGCCCATCCAGATCAAGGTGTC  
 CACCCCGCACCCCAAGCACCGCCATCCGGGCCATGCCTGTTTACAAGAAAGCGGAGCAGCTGACCGAC  
 GTCGTGAAACGCTGCCCAACCACGAGCTCGGGAGGGACTTCAACGAAGGACAGTCTGCTCCAGCCAGCC  
 ACCTCATCCGCGTGAAGGCAATAATCTCTCGCAGTATGTGGATGACCCTGTACCAGGACGAGAGCGT  
 CGTGGTGCCTATGAGCCACCACAGGTGGGGACGGAATTCACCACCATCCTGTACAACCTCATGTGTAAC  
 AGCAGCTGTGTAGGGGGCATGAACCGCGGCCCATCCTCATCATCACCTGGAGATGCGGGATGGGC  
 AGGTGCTGGGCCCGCGTCTTTGAGGGCCGATCTGCGCCTGTCTGGCCGCGACCGAAAAGCTGATGA  
 GGACCACTACCGGGAGCAGCAGGCCCTGAACGAGAGCTCCGCCAAGAACGGGGCCGCCAGCAAGCGTGCC  
 TTCAAGCAGAGCCCCCTGCCGTCCCCGCCCTTGGTGCCGGTGTGAAGAAGCGCGGCAATGGAGACGAGG  
 ACACGTAACCTTCAGGTGCGAGGCGGGGAGAACTTTGAGATCCTGATGAAGCTGAAAGAGAGCCTGGA  
 GCTGATGGAGTTGGTGCCGACGCCACTGGTGGACTCCTATCGGCAGCAGCAGAGCTCCTACAGAGGCCG  
 CCCCAGGATGCTCAACAACCATGGCCACGAGTCCAGCCACCGCGAGATGAGCAGCAGCCACAGCGCC  
 CAGTCCATGGTCTCGGGGTCCCCTGCACTCGCCACCCCTACCACCGCCGACCCAGCCTCGTCAAG  
 CCTGGGGGCCCTGAAGATCCCCGAGCAGTACCGCATGACCATCTGGCGGGCCTGCAGGACCTGAAGCAG  
 GGCCACGACTACAGCACCGCGCAGCAGCTGCTCCGCTCTAGCAACGCGGCCACCATCTCCATCGCGGCT  
 CAGGGGAACTGCAGCGCCAGCGGTCATGGAGGCCGTGCACTTCCGCGTGCGCCACACCATCACCATCCC  
 CAACCGCGCGGCCAGGCGCGGCCCTGACGAGTGGCGGACTTCGGCTTCGACCTGCCGACTGCAAG  
 GCCCGAAGCAGCCATCAAGGAGGAGTTCACGGAGGCCGAGATCCAC

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**

**Protein Sequence:**

>RG234310 representing NM\_001204190  
 Red=Cloning site Green=Tags(s)

MLYVGDPARHLATAQFNLLSSTMDQMSSRAASAPYTPPEHAASVPTHSPYAQPSSTFDTMSAPVIPSNT  
 DYPGPHHFVTFQSSSTAKSATWTYSPLLKLYCQIAKTCPIQIKVSTPPPPGTAIRAMPVYKKAHVTD  
 VVKRCPNHELGRDFNEGQSAPASHLIRVEGNLSQYVDDPVTGRQSVVVPYEPQVTEFTTILYNFMCN  
 SSCVGMNRRPILIIITLEM RDGQVLGRRSFEGRICACPRDRKADEHDHYREQQALNESSAKNGAASKRA  
 FKQSPPAVPALGAGVKKRRRHGDEDTYYLQVRGRENFEILMKLKESELMELVPQPLVDSYRQQQLLQRP  
 PRDAQQPWPRSASQRRDEQPPQRPVHGLGVPLHSATPLPRRPQPRQDLGALKIPEQYRMTIWRGLQDLKQ  
 GHDYSTAQQLLRSSNAATISIGGSGELQRQRVMEAVHFRVHTITIPNRGGPGGGPDEWADFGFDLPDCK  
 ARKQPIKEEFTEAEIH

**TRTRPLE - GFP Tag - V**

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_001204190

ORF Size: 1518 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\\_001204190.2](#)

RefSeq Size: 4888 bp

RefSeq ORF: 1521 bp

Locus ID: 7161

UniProt ID: [O15350](#)

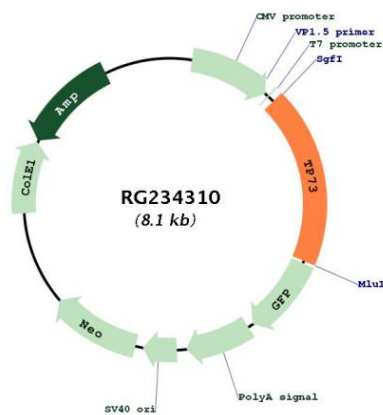
Cytogenetics: 1p36.32

**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 RG234310