

## Product datasheet for **RG225696**

### p73 (TP73) (NM\_001126242) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	p73 (TP73) (NM_001126242) 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)
ORF Nucleotide Sequence:	>RG225696 representing NM_001126242 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGTACGTCGGTGACCCCGCACGGCACCTCGCCACGGCCAGTTCAATCTGCTGAGCAGCACCATGG  
ACCAGATGAGCAGCCGCGCGCCCTCGGCCAGCCCTACACCCAGAGCAGCCGCGCAGCGTGCCACCCA  
CTCGCCCTACGCACAACCAGCTCCACCTTCGACACCATGTCGCCGGCGCCTGTCATCCCCTCCAACACC  
GACTACCCCGGACCCCACTTTGAGGTCACTTCCAGCAGTCCAGCACGGCCAAGTCAGCCACCTGGA  
CGTACTCCCCGCTCTTGAAGAACTCTACTGCCAGATCGCAAGACATGCCCATCCAGATCAAGGTGTC  
CACCCCGCCACCCCAAGGCACCGCCATCCGGGCCATGCCTGTTTACAAGAAAGCGGAGCAGTGACCGAC  
GTCGTGAAACGCTGCCCAACCACGAGCTCGGGAGGGACTTCAACGAAGGACAGTCTGCTCCAGCCAGCC  
ACCTCATCCGCGTGAAGGCAATAATCTCTCGCAGTATGTGGATGACCCTGTACCAGGCAGGCAGAGCGT  
CGTGGTGCCCTATGAGCCACCACAGGTGGGGACGGAATTCACCACCATCCTGTACAACCTCATGTGTAAC  
AGCAGCTGTGTAGGGGCGATGAACCGCGGCCATCCTCATCATCACCCCTGGAGATGCGGGATGGGC  
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ACACGTACTACCTTCAGGTGCGAGGCCGGGAGAACTTTGAGATCCTGATGAAGCTGAAAGAGAGCCTGGA  
GCTGATGGAGTTGGTGGCGCAGCCACTGGTGGACTCCTATCGGCAGCAGCAGCAGCTCCTACAGAGGCCG  
CCCCGGGATGCTCAACAACCATGGCCACGAGTCCAGCCAACGGCGAGATGAGCAGCAGCCACAGCGCC  
CAGTCCATGGTCTCGGGTCCCCTGCACTCCGCCACCCCTACCAGCCGACCCAGCCTCGTCAGTT  
TTTTAACAGGATTGGGGTGTCCAACTGCATCGAGATTTACCTCCAAGGGTTACAGAGCATTACCA  
CCTGCAGAACCTGACCAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG225696 representing NM\_001126242  
 Red=Cloning site Green=Tags(s)

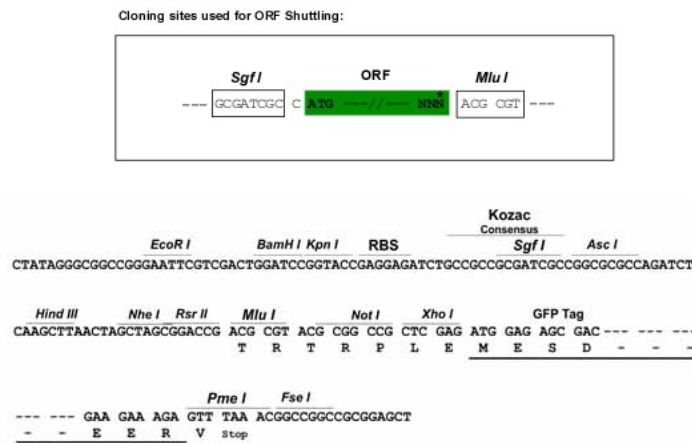
MLYVGDPARHLATAQFNLLSSTMDQMSSRAASAPYTPPEHAASVPTHSPYAQPSSTFDTMSPAPVIPSNT  
 DYPGPHHFVTFQQSSTAKSATWTYSPLLKLYCQIAKTCPIQIKVSTPPPGTAIRAMPVYKKAHVTD  
 VVKRCPNHELGRDFNEGQSAPASHLIRVEGNLSQYVDDPVTGRQSVVVPYEPQVGFTEFTTILYNFMCN  
 SSCVGGMNRRLIILIIITLEM RDGQVLGRRSFEGRICACPRDRKADEHDHYREQQALNESSAKNGAASKRA  
 FKQSPPAVPALGAGVKKRRHGDEDTYYLQVRGRENFEILMKLKESELMELVPQPLVDSYRQQQLLQRP  
 PRDAQQPWPRSASQRDEQPPQRPVHGLGVPLHSATPLPRRPQPRQFFNRI GVS KLHRV FHLPRVTEHLP  
 PAEPDH

TRTRPLE - GFP Tag - V

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2506\\_a02.zip](https://cdn.origene.com/chromatograms/ja2506_a02.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001126242

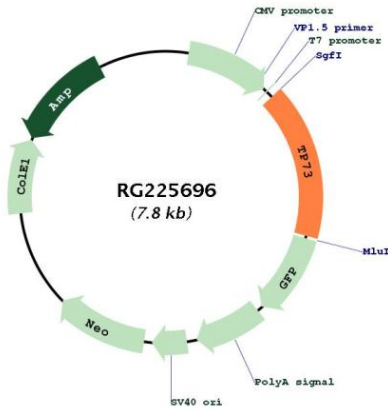
**ORF Size:** 1278 bp

**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](mailto: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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001126242.3</a>
<b>RefSeq Size:</b>	2673 bp
<b>RefSeq ORF:</b>	1281 bp
<b>Locus ID:</b>	7161
<b>UniProt ID:</b>	<a href="#">O15350</a>
<b>Cytogenetics:</b>	1p36.32
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Protein Pathways:</b>	Neurotrophin signaling pathway, p53 signaling pathway
<b>Gene Summary:</b>	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 RG225696