

Product datasheet for **RG225835**

p63 (TP63) (NM_001114979) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	p63 (TP63) (NM_001114979) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TP63
Synonyms:	AIS; B(p51A); B(p51B); EEC3; KET; LMS; NBP; OFC8; p40; p51; p53CP; p63; p73H; p73L; RHS; SHFM4; TP53CP; TP53L; TP73L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG225835 representing NM_001114979
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAATTTTGAACCTTCACGGTGTGCCACCTACAGTACTGCCCTGACCCTTACATCCAGCGTTTCGTAG
 AAACCCAGCTCATTCTCTTGGAAAGAAAGTTATTACCGATCCACCATGTCCCAGAGCACACAGACAAA
 TGAATTCCTCAGTCCAGAGGTTTTCCAGCATATCTGGGATTTTCTGGAACAGCCTATATGTTTCAGTTCAG
 CCCATTGACTTGAACCTTGTGGATGAACCATCAGAAGATGGTGCACAAACAAGATTGAGATTAGCATGG
 ACTGTATCCGCATGCAGGACTCGGACCTGAGTGACCCCATGTGGCCACAGTACACGAACCTGGGGCTCCT
 GAACAGCATGGACCAGCAGATTCAGAACGGCTCCTCGTCCACCAGTCCCTATAACACAGACCACGCGCAG
 AACAGCGTCACGGCGCCCTCGCCCTACGCACAGCCAGCTCCACCTTCGATGCTCTCTCTCCATCACCCG
 CCATCCCTCCAACACCGACTACCCAGGCCCGCACAGTTTCGACGTGCTCTTCCAGCAGTCGAGCACCCG
 CAAGTCGGCCACCTGGACGTATCCACTGAACTGAAGAACTCTACTGCCAAATTGCAAAGACATGCCCC
 ATCCAGATCAAGGTGATGACCCACCTCCTCAGGGAGCTGTTATCCGCGCCATGCCTGTCTACAAAAAAG
 CTGAGCACGTACCGGAGGTGGTGAAGCGGTGCCCAACCATGAGCTGAGCCGTGAATTCACGAGGGACA
 GATTGCCCTCCTAGTCAATTTGATTTCGAGTAGAGGGGAACAGCCATGCCAGTATGTAGAAGATCCCATC
 ACAGGAAGACAGAGTGTGCTGGTACCTTATGAGCCACCCAGGTTGGCACTGAATTCACGACAGTCTTGT
 ACAATTTTCATGTGAACAGCAGTTGTGTTGGAGGGATGAACCGCCGTCCAATTTTAACTATTGTTACTCT
 GGAAACCAGAGATGGGCAAGTCTGGGCCGACGCTGCTTTGAGGCCCGGATCTGTGCTTGCCAGGAAGA
 GACAGGAAGGCGGATGAAGATAGCATCAGAAAGCAGCAAGTTTCGACAGTACAAAGAACGAGGTGATGGTA
 CGAAGCGCCCGTTTCGTCAGAACACACATGGTATCCAGATGACATCCATCAAGAAACGAGTCCCAGTA
 TGATGAACTGTTATACTTACCAGTGAGGGCCGTGAGACTTATGAAATGCTGTTGAAGATCAAAGAGTCC
 CTGGAACCTCATGCAGTACCTTCTCAGCACACAATTGAAACGTACAGGCAACAGCAACAGCAGCAGCACC
 AGCACTTACTTCAAGAACATCTCCTTTACGCTGCTTCAGGAATGAGCTTGTGGAGCCCCGGAGAGAAAC
 TCCAAAACAATCTGACGTCTTCTTTAGACATTCCAAGCCCCAAACCGATCAGTGTACCCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG225835 representing NM_001114979
 Red=Cloning site Green=Tags(s)

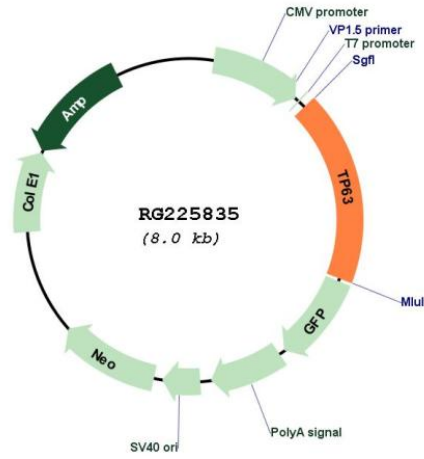
MNFETSRCATLQYCPDPYIQRVFVETPAHFHWKESYYRSTMSQSTQTNEFLSPEVFGHIWDFLEQPICSVQ
 PIDLNFVDEPSEDGATNKIEISMDCIRMQDSLSDPMWPQYTNLGLLNSMDQQIQNGSSSTSPYNTDHAQ
 NSVTAPSPYAQPSSTFDALSPSPAIPSNLDYDYPGPHSFDVFSFQSSSTAKSATWTYSTELKKLYCQIAKTC
 IQIKVMTPPPQGAIVIRAMPVYKKAHEVTEVVKRCPNHEL SREFNEGQIAPP SHLIRVEGNSHAQYVEDPI
 TGRQSVLVPYEPQVGTFTTFLYFMCNSSCVGMNRRPILIIIVTLETRDQVLRRCFEARICACPGR
 DRKADEDSIRKQQVSDSTKNGDGTKRPFQNTHTGIQMTSIIKKRRSPDELLYLPVRGRETYEMLLIKES
 LELMQYLPQHTIETYRQQQQQHLLQKHLLSACFRNELVEPRRETPKQSDVFFRHSKPPNRSVYP

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Plasmid Map:



ACCN: NM_001114979
 ORF Size: 1461 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_001114979.2](#)

RefSeq Size: 2870 bp

RefSeq ORF: 1464 bp

Locus ID: 8626

UniProt ID: [Q9H3D4](#)

Cytogenetics: 3q28

Protein Families: Druggable Genome, Transcription Factors

Gene Summary:

This gene encodes a member of the p53 family of transcription factors. The functional domains of p53 family proteins include an N-terminal transactivation domain, a central DNA-binding domain and an oligomerization domain. Alternative splicing of this gene and the use of alternative promoters results in multiple transcript variants encoding different isoforms that vary in their functional properties. These isoforms function during skin development and maintenance, adult stem/progenitor cell regulation, heart development and premature aging. Some isoforms have been found to protect the germline by eliminating oocytes or testicular germ cells that have suffered DNA damage. Mutations in this gene are associated with ectodermal dysplasia, and cleft lip/palate syndrome 3 (EEC3); split-hand/foot malformation 4 (SHFM4); ankyloblepharon-ectodermal defects-cleft lip/palate; ADULT syndrome (acrodermato-ungual-lacrimal-tooth); limb-mammary syndrome; Rap-Hodgkin syndrome (RHS); and orofacial cleft 8. [provided by RefSeq, Aug 2016]