

## Product datasheet for **RG225987**

### **p63 (TP63) (NM\_001114980) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	p63 (TP63) (NM_001114980) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	p63
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:**

>RG225987 representing NM\_001114980  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTTGTACCTGGAAAACAATGCCAGACTCAATTTAGTGAGCCACAGTACACGAACCTGGGGCTCCTGA  
 ACAGCATGGACCAGCAGATTAGAACGGCTCCTCGTCCACCAGTCCCTATAACACAGACCACGCGCAGAA  
 CAGCGTCACGGCGCCCTCGCCCTACGCACAGCCAGCTCCACCTTCGATGCTCTCTCCATCACCCGCC  
 ATCCCCTCCAACACCGACTACCCAGGCCCGCACAGTTTCGACGTGCTCTCCAGCAGTCGAGCACCGCCA  
 AGTCGGCCACCTGGACGTATTCCACTGAACTGAAGAACTCTACTGCCAAATTGCAAAGACATGCCCCAT  
 CCAGATCAAGGTGATGACCCACCTCCTCAGGGAGCTGTTATCCGCGCCATGCCTGTCTACAAAAAGCT  
 GAGCACGTCACGGAGGTGGTGAAGCGGTGCCCAACCATGAGCTGAGCCGTGAATTAACGAGGGACAGA  
 TTGCCCTCCTAGTCATTTGATTGAGTAGAGGGGAACAGCCATGCCAGTATGTAGAAGATCCCATCAC  
 AGGAAGACAGAGTGTGCTGGTACCTTATGAGCCACCCAGTTGGCACTGAATTCACGACAGTCTTGATC  
 AATTTTCATGTGTAACAGCAGTTGTGTTGGAGGGATGAACCGCCGTCCTCAATTTTAATCATTGTTACTCTGG  
 AAACCAGAGATGGCAAGTCTGGGCCGACGCTGCTTTGAGGCCCGGATCTGTGCTTGCCAGGAAGAGA  
 CAGGAAGGCGGATGAAGATAGCATCAGAAAGCAGCAAGTTTCGGACAGTACAAAGAACGGTATGTTACG  
 AAGCGCCCGTTTCGTCAGAACACACATGGTATCCAGATGACATCCATCAAGAAACGAAGATCCCCAGATG  
 ATGAACTGTTATACTTACCAGTGAGGGGCGGTGAGACTTATGAAATGCTGTTGAAGATCAAAGAGTCCCT  
 GGAACCTCATGCAGTACCTTCTCAGCACACAATTGAAACGTACAGGCAACAGCAACAGCAGCAGCACCAG  
 CACTTACTTCAGAAACAGACCTCAATACAGTCTCCATCTTCATATGGTAAACAGCTCCCCACCTCTGAACA  
 AAATGAACAGCATGAACAAGCTGCCTTCTGTGAGCCAGTTATCAACCCTCAGCAGCGCAACGCCCTCAC  
 TCCTACAACCATTCTGATGGCATGGGAGCCAACATTCATGATGGGCACCCACATGCCAATGGCTGGA  
 GACATGAATGGACTCAGCCCCACCCAGGCACTCCCTCCCCACTCTCCATGCCATCCACCTCCCCTGCA  
 CACCCCACTCCGATCCCACAGATTGCAGCATTGTCAGTTTCTTAGCGAGGTTGGGCTGTTTCATCATG  
 TCTGGACTATTTACGACCCAGGGGCTGACCACCATCTATCAGATTGAGCATTACTCCATGGATGATCTG  
 GCAAGTCTGAAAATCCCTGAGCAATTTGACATGCGATCTGGAAGGGCATCTGGACCACCGGCAGCTCC  
 ACGAATTTCTCCCTTCTCATCTCTGCGGACCCCAAGCAGTGCCTCTACAGTCAGTGTGGGCTCCAG  
 TGAGACCCGGGTGAGCGTGTATTGATGCTGTGCGATTACCCTCCGCCAGACCATCTCTTTCCACCC  
 CGAGATGAGTGAATGACTTCACTTTGACATGGATGCTCGCCGCAATAAGCAACAGCGCATCAAAGAGG  
 AGGGGGAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG225987 representing NM\_001114980  
 Red=Cloning site Green=Tags(s)

MLYLENNAQTQFSEPQYTNLGLLNSMDQQIQNGSSSTSPYNTDHAQNSVTAPSPYAQPSSTFDALSPSPA  
 IPSNTDYPGPHSFDVSFQQSSTAKSATWTYSTELKKLYCQIAKTCPIQIKVMTPPPQGA VIRAMPVYKKA  
 EHVTEVVKRCPNHEL SREFNEGQIAPPSHLIRVEGNSHAQYVEDPITGRQSVLVPYEPQVGTFTTVLY  
 NFMCNSSCVGGMNRRPILIIIVTLETRDGQVLRRCFEARICACPGDRDKADEDSIRKQQVSDSTKNGDGT  
 KRPFQRNTHGIQMTSIIKRRSPDELLYLPVVRGRETYEMLLKIKESLELMQYLPQHTIETIRQQQQQH  
 HLLQKQTSIQSPSSYGNSSPPLNKMNSMNKLPSVSQLINPQRNALPTTIPDGMGANIPMMGTHMPMAG  
 DMNGLSPTQALPPPLSMPSTSHCTPPPPYPTDCSIVSFLARLGCSSCLDYFTTQGLTTIYQIEHYSMDLL  
 ASLKIPEQFRHAIWKGILDHRQLHEFSSPSHLLRTPSSASTVSVGSSETRGERVIDAVRFTLRQTISFPP  
 RDEWDFNFDMDARRNKQQRKEEGE

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_001114980

ORF Size: 1758 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\\_001114980.2](#)

RefSeq Size: 4697 bp

RefSeq ORF: 1761 bp

Locus ID: 8626

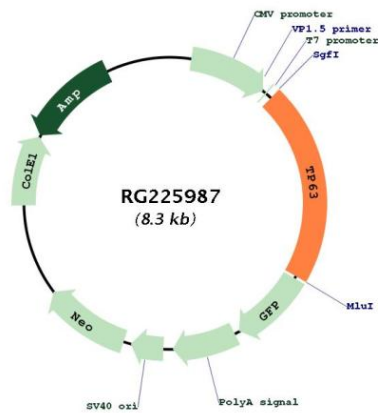
UniProt ID: [Q9H3D4](#)

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 (acro-dermato-ungual-lacrimal-tooth); limb-mammary syndrome; Rap-Hodgkin syndrome (RHS); and orofacial cleft 8. [provided by RefSeq, Aug 2016]

**Product images:**



Circular map for RG225987