

Product datasheet for **RC208013**

p63 (TP63) (NM_003722) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	p63 (TP63) (NM_003722) Human Tagged ORF Clone
Tag:	Myc-DDK
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-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RC208013 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAATTTTGAACCTTCACGGTGTGCCACCTACAGTACTGCCCTGACCCTTACATCCAGCGTTTCGTAG
AAACCCAGCTCATTCTCTTGGAAAGAAAGTTATTACCGATCCACCATGTCCCAGAGCACACAGACAAA
TGAATTCCTCAGTCCAGAGGTTTTCCAGCATATCTGGGATTTTCTGGAACAGCCTATATGTTTCAGTTCAG
CCCATTGACTTGAACCTTGTGGATGAACCATCAGAAGATGGTGCACAAACAAGATTGAGATTAGCATGG
ACTGTATCCGCATGCAGGACTCGGACCTGAGTGACCCCATGTGGCCACAGTACACGAACCTGGGGCTCCT
GAACAGCATGGACCAGCAGATTCAGAACGGCTCCTCGTCCACCAGTCCCTATAACACAGACCACGCGCAG
AACAGCGTCACGGCGCCCTCGCCCTACGCACAGCCAGCTCCACCTTCGATGCTCTCTCCATCACCCG
CCATCCCTCCAACACCGACTACCCAGGCCCGCACAGTTTCGACGTGTCCTTCAGCAGTCGAGCACCCG
CAAGTCGGCCACCTGGACGTATCCACTGAACTGAAGAACTCTACTGCCAAATTGCAAAGACATGCCCC
ATCCAGATCAAGGTGATGACCCACCTCCTCAGGGAGCTGTTATCCGCGCCATGCCTGTCTACAAAAAAG
CTGAGCACGTACCGGAGGTGGTGAAGCGGTGCCCAACCATGAGCTGAGCCGTGAATTCAACGAGGGACA
GATTGCCCTCCTAGTCAATTTGATTTCGAGTAGAGGGGAACAGCCATGCCAGTATGTAGAAGATCCCATC
ACAGGAAGACAGAGTGTGCTGGTACCTTATGAGCCACCCAGGTTGGCACTGAATTCACGACAGTCTTGT
ACAATTTTCATGTGAACAGCAGTTGTGTTGGAGGGATGAACCGCCGTCCAATTTTAACTATTGTTACTCT
GGAAACCAGAGATGGGCAAGTCTGGGCCGACGCTGCTTTGAGGCCCGGATCTGTGCTTGCCAGGAAGA
GACAGGAAGGCGGATGAAGATAGCATCAGAAAGCAGCAAGTTTCGACAGTACAAAGAACGGTGTGGTA
CGAAGCGCCCGTTTCGTCAGAACACACATGGTATCCAGATGACATCCATCAAGAAACGAAGATCCCAGA
TGATGAACTGTTATACTTACCAGTGAGGGCCGTGAGACTTATGAAATGCTGTTGAAGATCAAAGAGTCC
CTGGAACCTCATGCACTACCTTCTCAGCACACAATTGAAACGTACAGGCAACAGCAACAGCAGCAGCACC
AGCACTTACTTCAGAAACAGACCTCAATACAGTCTCCATCTTCATATGGTAACAGCTCCCCACCTCTGAA
CAAAATGAACAGCATGAACAAGTGCCTTCTGTGAGCCAGCTTATCAACCCTCAGCAGCGCAACGCCCTC
ACTCCTACAACCATTCCTGATGGCATGGGAGCCAACTTCCCATGATGGGCACCCACATGCCAATGGCTG
GAGACATGAATGGACTCAGCCCCACCCAGGCACTCCCTCCCCACTCTCCATGCCATCCACCTCCCCTG
CACACCCACCTCCGTATCCCACAGATTGCAGCATTGCAGTTTCTTAGCGAGGTTGGGCTGTTTCATCA
TGTCTGGACTATTCACGACCCAGGGGCTGACCACCATCTATCAGATTGAGCATTACTCCATGGATGATC
TGGCAAGTCTGAAAATCCCTGAGCAATTTGACATGCGATCTGGAAGGGCATCCTGGACCACCGGAGCT
CCACGAATTCCTCCCTTCTCATCTCCTGCGGACCCCAAGCAGTGCCTCTACAGTCAGTGTGGGCTCC
AGTGAGACCCGGGGTGGCGTGTATTGATGCTGTGCGATTACCCCTCCGCCAGACCATCTTTTCCCAC
CCCAGATGAGTGGAAATGACTTCAACTTTGACATGGATGCTCGCCGCAATGAGCAACAGCGCATCAAAGA
GGAGGGGGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC208013 protein sequence
 Red=Cloning site Green=Tags(s)

MNFETSRCATLQYCPDPYIQRVETPAHFSWKESYYRSTMSQSTQTNEFLSPEVFQHIWDFLEQPICSVQ
 PIDLNFVDEPSEDGATNKIEISMDCIRMQDSDLSDPMWPQYTNLGLLNSMDQIQNGSSSTSPYNTDHAQ
 NSVTAPSPYAQPSSTFDALSPSPAIPSN TDYPGPHSFDVSFQSSSTAKSATWTYSTELKKLYCQIAKTCP
 IQIKVMTPPPQGA VIRAMPVYKKA EHVTEVVKRCPNHEL SREFNEGQI APPSHL IRVEGN SHAQYVEDPI
 TGRQSVLVPYEPQVGEFTTVLYNFMCNSSCVGGMNRRPILIIIVTLETRDQVLGRRCFEARICACPR
 DRKADEDSIRKQVSDSTKNGDGTKRPFQNTHTGIQMTS IKKRRSPDELLYL PVRGRETYEMLLIKES
 LELMQYLPQHTIET YRQQQQQHQLLQKQTSIQSPSSYGNSSPPLNKMNSMNLPSVSQLINPQQRNAL
 TPTTIPDGMGANIPMGTHMPMAGDMNGLSPTQALPPPLSMPSTSHCTPPPPYPTDCSIVSFLARLGCSS
 CLDYFTTQGLTTIYQIEHYSMDDLASLKIPEQFRHAIWKGILDHRQLHEFS SPSHLLRTPSSASTVSVGS
 SETRGERVIDAVRFTLRQTISFPPRDEWDFNFMDARRNKQQR IKEEGE

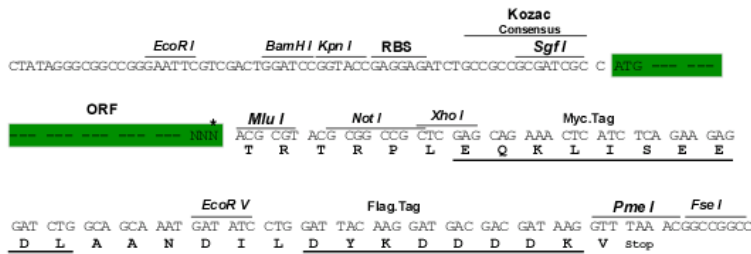
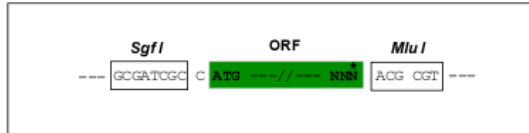
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6088_f08.zip

Restriction Sites: Sgfl-MluI

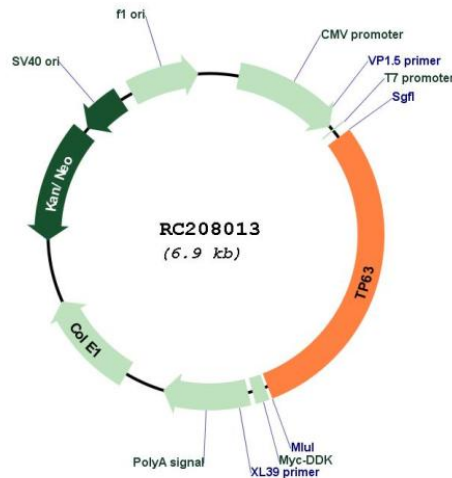
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_003722

ORF Size: 2040 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_003722.5](#)

RefSeq Size: 4927 bp

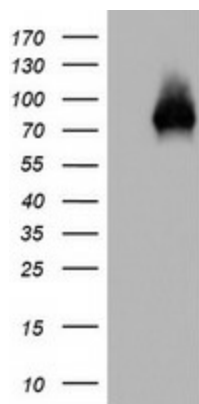
RefSeq ORF: 2043 bp

Locus ID: 8626

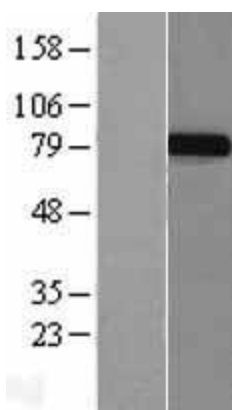
UniProt ID:	Q9H3D4
Cytogenetics:	3q28
Domains:	SAM, P53
Protein Families:	Druggable Genome, Transcription Factors
MW:	76.8 kDa

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]

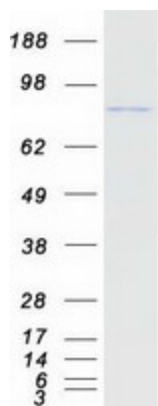
Product images:



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY TP63 (Cat# RC208013, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TP63 (Cat# [TA802078]). Positive lysates [LY418475] (100ug) and [LC418475] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY418475]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208013 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TP63 protein (Cat# [TP308013]). The protein was produced from HEK293T cells transfected with TP63 cDNA clone (Cat# RC208013) using MegaTran 2.0 (Cat# [TT210002]).