

Product datasheet for **SC318894**

p63 (TP63) (NM_001114981) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	p63 (TP63) (NM_001114981) Human Untagged Clone
Tag:	Tag Free
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 (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_001114981 edited
 ATGTTGTACCTGGAAAACAATGCCCAGACTCAATTTAGTGAGCCACAGTACACGAACCTG
 GGGCTCCTGAACAGCATGGACCAGCAGATTGAGAACGGCTCCTCGTCCACCAGTCCCTAT
 AACACAGACCACGCGCAGAACAGCGTCACGGCGCCCTCGCCCTACGCACAGCCCAGCTCC
 ACCTTCGATGCTCTCTCCATCACCCGCCATCCCTCCAACACCGACTACCCAGGCCCG
 CACAGTTTTCGACGTGTCCTTCCAGCAGTCGAGCACCGCCCAAGTCGGCCACCTGGACGTAT
 TCCACTGAACTGAAGAACTCTACTGCCAAATTGCAAAGACATGCCCATCCAGATCAAG
 GTGATGACCCACCTCCTCAGGGAGCTGTTATCCGCGCCATGCCTGTCTACAAAAAGCT
 GAGCACGTACGGAGGTGGTGAAGCGGTGCCCAACCATGAGCTGAGCCGTGAATTCAAC
 GAGGGACAGATTGCCCTCCTAGTCATTTGATTGAGTAGAGGGGAACAGCCATGCCAG
 TATGTAGAAGATCCCATCACAGGAAGACAGAGTGTGCTGGTACCTTATGAGCCACCCAG
 GTTGGCACTGAATTCACGACAGTCTTGTACAATTTTCATGTGTAAACAGCAGTTGTGTTGGA
 GGGATGAACCGCGTCCAATTTAATCATTGTTACTCTGGAACCCAGAGATGGGCAAGTC
 CTGGGCCGACGCTGCTTTGAGGCCCGGATCTGTGCTTGCCAGGAAGAGACAGGAAGGCG
 GATGAAGATAGCATCAGAAAGCAGCAAGTTTCGGACAGTACAAAGAACGGTGATGGTACG
 AAGCGCCCGTTTTCGTCAGAACACACATGGTATCCAGATGACATCCATCAAGAAACGAAGA
 TCCCCAGATGATGAACTGTTATACTTACCAGTGAGGGGCGTGAGACTTATGAAATGCTG
 TTGAAGATCAAAGAGTCCCTGGAACATGTCAGTACCTTCTCAGCACACAATTGAAACG
 TACAGGCAACAGCAACAGCAGCAGCACCAGCACTTACTTCAAGAACAGACCTCAATACAG
 TCTCCATCTTTCATATGGTAACAGCTCCCCACCTCTGAACAAAAAGAACAGCATGAACAAG
 CTGCCTTCTGTGAGCCAGCTTATCAACCCTCAGCAGCGCAACGCCCTCACTCCTACAACC
 ATTCTGATGGCATGGGAGCCAACATTCCCATGATGGGCACCCACATGCCAATGGCTGGA
 GACATGAATGGACTCAGCCCCACCCAGGCACTCCCTCCCCCACTTCCATGCCATCCACC
 TCCCACTGCACACCCCCACCTCCGTATCCACAGATTGCAGCATTGTCAGGATCTGGCAA
 GTCTGA



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Restriction Sites:	Please inquire
ACCN:	NM_001114981
Insert Size:	1400 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_001114981.1.
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:	<ol style="list-style-type: none">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:	<u>NM_001114981.1</u> , <u>NP_001108453.1</u>
RefSeq Size:	4603 bp
RefSeq ORF:	1386 bp
Locus ID:	8626
UniProt ID:	<u>Q9H3D4</u>
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]

Transcript Variant: This variant (5) differs in the 5' UTR and coding region, and also lacks an exon in the 3' coding region that results in a frameshift, compared to variant 1. The resulting isoform (5, also known as deltaNp63beta, P51 delNbeta, and deltaN-beta) is shorter and has distinct N- and C-termini, compared to isoform 1.