

## Product datasheet for **SC318933**

### **p63 (TP63) (NM\_001114978) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	p63 (TP63) (NM_001114978) 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)



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**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_001114978 edited  
 ATGAATTTTAAAACCTTCACGGTGTGCCACCCTACAGTACTGCCCTGACCCTTACATCCAG  
 CGTTTCGTAGAAAACCCAGCTCATTCTCTTGGAAAGAAAGTTATTACCGATCCACCATG  
 TCCCAGAGCACACAGACAAAATGAATTCCTCAGTCCAGAGGTTTTCCAGCATATCTGGGAT  
 TTTCTGGAACAGCCTATATGTTTCAGTTCAGCCATTGACTTGAACCTTTGTGGATGAACCA  
 TCAGAAGATGGTGCACAAAACAAGATTGAGATTAGCATGGACTGTATCCGCATGCAGGAC  
 TCGGACCTGAGTGACCCCATGTGGCCACAGTACACGAACCTGGGGCTCCTGAACAGCATG  
 GACCAGCAGATTAGAACGGCTCCTCGTCCACCAGTCCCTATAACACAGACCACGCGCAG  
 AACAGCGTCACGGCGCCCTCGCCCTACGCACAGCCAGCTCCACCTTCGATGCTCTCTCT  
 CCATCACCCGCCATCCCTCCAACACCGACTACCCAGGCCCGCACAGTTTCGACGTGTCC  
 TTCCAGCAGTCGAGCACCGCCAAGTCGGCCACCTGGACGTATTCCACTGAACTGAAGAAA  
 CTCTACTGCCAAATTGCAAAGACATGCCCCATCCAGATCAAGGTGATGACCCACCTCCT  
 CAGGGAGCTGTTATCCGCGCCATGCCTGTCTACAAAAAGCTGAGCACGTACGGAGGTG  
 GTGAAGCGGTGCCCAACCATGAGCTGAGCCGTGAATTCACGAGGACAGATTGCCCT  
 CCTAGTCAATTTGATTGAGTAGAGGGGAACAGCCATGCCAGTATGTAGAAGATCCCATC  
 ACAGGAAGACAGAGTGTGCTGGTACCTTATGAGCCACCCAGTTGGCACTGAATTCAGC  
 ACAGTCTTGTAACAATTCATGTGTAACAGCAGTTGTGTTGGAGGGATGAACCGCCGTCCA  
 ATTTTAATCATTGTTACTCTGAAACCAGAGATGGGCAAGTCTGGGCCGACGCTGCTTT  
 GAGGCCCGGATCTGTGCTTGCCAGGAAGAGACAGGAAGCGGATGAAGATAGCATCAGA  
 AAGCAGCAAGTTTCGGACAGTACAAAGAACGGTGTGATGTCGAAGCGCCCGTTTCGTGAG  
 AACACACATGGTATCCAGATGACATCCATCAAGAAACGAAGATCCCAGATGATGAACTG  
 TTATACTTACCAGTGAGGGCCGTGAGACTTATGAAATGCTGTTGAAGATCAAAGAGTCC  
 CTGGAATCATGCAGTACCTTCCCTCAGCACACAATTGAAACGTACAGGCAACAGCAACAG  
 CAGCAGCACAGCACTTACTTCAGAAACAGACCTCAATACAGTCTCCATCTTCATATGGT  
 AACAGCTCCCCACCTCTGAACAAAATGAACAGCATGAACAGCTGCCTTCTGTGAGCCAG  
 CTTATCAACCCTCAGCAGCGCAACGCCCTCACTCCTACAACCATTCTGATGGCATGGGA  
 GCCAACATTCCCATGATGGGCACCCACATGCCAATGGCTGGAGACATGAATGGACTCAGC  
 CCCACCCAGGCACTCCCTCCCCACTCTCCATGCCATCCACCTCCCCTGCACACCCCCA  
 CCTCCGTATCCCACAGATTGCAGCATTGTCAGGATCTGGCAAGTCTGA

- Restriction Sites:** Please inquire
- ACCN:** NM\_001114978
- Insert Size:** 1700 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\_001114978.1.
- 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:**

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\\_001114978.1](#), [NP\\_001108450.1](#)

**RefSeq Size:** 4833 bp

**RefSeq ORF:** 1668 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]

Transcript Variant: This variant (2) lacks an exon in the 3' coding region that results in a frameshift, compared to variant 1. The resulting isoform (2, also known as TAp63beta and TA-beta) is shorter and has a distinct C-terminus, compared to isoform 1.