

Product datasheet for **SC128232**

p63 (TP63) (NM_003722) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	p63 (TP63) (NM_003722) 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:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC128232 sequence for NM_003722 edited (data generated by NextGen Sequencing)

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ATGAATTTTAAAACCTTACGGTGTGCCACCCTACAGTACTGCCCTGACCCTTACATCCAG
CGTTTCGTAGAAAACCCAGCTCATTCTCTTGGAAAGAAAGTTATTACCGATCCACCATG
TCCCAGAGCACACAGACAAATGAATTCCTCAGTCCAGAGGTTTTCCAGCATATCTGGGAT
TTTCTGGAACAGCCTATATGTTTCAGTTCAGCCCATTGACTTGAACCTTTGTGGATGAACCA
TCAGAAGATGGTGCACAAACAAGATTGAGATTAGCATGGACTGTATCCGCATGCAGGAC
TCGGACCTGAGTGACCCCATGTGGCCACAGTACACGAACCTGGGGCTCCTGAACAGCATG
GACCAGCAGATTGAGAACGGCTCCTCGTCCACCAGTCCCCTATAACACAGACCACGCGCAG
AACAGCGTCACGGCGCCCTCGCCCTACGCACAGCCAGCTCCACCTTCGATGCTCTCTCT
CCATCACCCGCCATCCCCCACAACCCGACTACCCAGGCCCGCACAGTTTCGACGTGTCC
TTCCAGCAGTCGAGCACCCGAAGTCGGCCACCTGGACGTATTCCACTGAACTGAAGAAA
CTCTACTGCCAAATTGCAAAGACATGCCCCATCCAGATCAAGGTGATGACCCACCTCCT
CAGGGAGCTGTTATCCGCGCCATGCCTGTCTACAAAAAAGCTGAGCACGTACGGAGGTG
GTGAAGCGGTGCCCAACCATGAGCTGAGCCGTGAATTAACGAGGGACAGATTGCCCT
CCTAGTCAATTTGATTGAGTAGAGGGGAACAGCCATGCCAGTATGTAGAAGATCCCATC
ACAGGAAGACAGAGTGTGCTGGTACCTTATGAGCCACCCAGGTTGGCACTGAATTCACG
ACAGTCTTGTACAATTTTCATGTGTAAACAGCAGTTGTGTTGGAGGGATGAACCGCCGTCCA
ATTTTAATCATTGTTACTCTGGAACCAGAGATGGGCAAGTCTGGGCCGACGCTGCTTT
GAGGCCCGGATCTGTGCTTGCCAGGAAGAGACAGGAAGGCGGATGAAGATAGCATCAGA
AAGCAGCAAGTTTCGGACAGTACAAAGAACGGTGTGGTACGAAGCGCCCGTTTCGTGAG
AACACACATGGTATCCAGATGACATCCATCAAGAAACGAAGATCCCAGATGATGAACTG
TTATACTTACCAGTGAGGGCCGTGAGACTTATGAAATGCTGTTGAAGATCAAAGAGTCC
CTGGAACATCATGCAGTACCTTCCCTCAGCACACAATTGAAACGTACAGGCAACAGCAACAG
CAGCAGCACCCAGCACTTACTTCAGAAACAGACCTCAATACAGTCTCCATCTTCATATGGT
AACAGCTCCCCACCTCTGAACAAAATGAACAGCATGAACAAGCTGCCTTCTGTGAGCCAG
CTTATCAACCCTCAGCAGCGCAACGCCCTCACTCCTACAACCATTCTGATGGCATGGGA
GCCAACATTCCCATGATGGGCACCCACATGCCAATGGCTGGAGACATGAATGGACTCAGC
CCCACCCAGGCACTCCCTCCCCACTCTCCATGCCATCCACCTCCCCTGCACACCCCA
CCTCCGTATCCCACAGATTGCAGCATTGTCAGTTTCTTAGCGAGGTTGGGCTGTTTCATCA
TGCTCTGGACTATTTACGACCCAGGGGCTGACCACCATCTATCAGATTGAGCATTACTCC
ATGGATGATCTGGCAAGTCTGAAAATCCCTGAGCAATTTTCGACATGCGATCTGGAAGGGC
ATCCTGGACCACCGGCAGCTCCACGAATTCCTCCCCTTCTCATCTCCTGCGGACCCCA
AGCAGTGCCTCTACAGTCAGTGTGGGCTCCAGTGAGACCCGGGGTGGAGCGTGTATTGAT
GCTGTGCGATTACCCCTCCGCCAGACCTCTCTTTCCACCCCGAGATGAGTGGAATGAC
TTCAACTTTGACATGGATGCTCGCCGCAATAAGCAACAGCGCATCAAAGAGGAGGGGGAG
TGA
    
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Clone variation with respect to NM_003722.4

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003722 unedited
 NCGTCAAATTTGTATACGACTCATATAGGCGGCCGCGNATTCAAATCTGGTACCGGTCC
 GGAATTCCTGGGATATCGTCGACCCACGCGTCCGCCCGGCTTTATATCTATATACACA
 GGTATATGTGTATATTTTATATAATTGTTCTCCGTTTCGTTGATATCAAAGACAGTTGAAG
 GAAATGAATTTTAAAACCTCACGGTGTGCCACCCTACAGTACTGCCCTGACCCTTACATC
 CAGCGTTTTCGTAGAAAACCCAGCTCATTCTCTTGAAAGAAAAGTTATTACCGATCCACC
 ATGTCCCAGAGCACACAGACAAAATGAATTCCTCAGTCCAGAGGTTTCCAGCATATCTGG
 GATTTTCTGGAACAGCCTATATGTTTCAGTTCAGCCATTGACTTGAACCTTGTGGATGAA
 CCATCAGAAGATGGTGGCACAACAAGATTGAGATTAGCATGGACTGTATCCGCATGCAG
 GACTCGGACCTGAGTGACCCCATGTGGCCACAGTACACGAACCTGGGGCTCCTGAACAGC
 ATGGACCAGCAGATTCAGAACGGCTCCTCGTCCACCAGTCCCTATAACACAGACCACGG
 CAGAACAGCGTCACGGCGCCCTCGCCCTACGCACAGCCAGCTCCACCTTCGATGCTCTC
 TCTCCATACCCGCCATCCCTCCAACACCGACTACCCAGGCCGCACAGTTTCGACGTG
 TCCTTCCAGCAGTCGAGCACCGCAAGTCGGCCACCTGGACGTATCCACTGAACTGAAG
 AAATCTACTGCCAAATGCANAGACATGCCCCATCCAGATCAAGGTGATGACCCACCT
 CCTCAGGGAGCTNGTATCCGGCCATGCCTGTCTACAAAAGCTGAGCACGTACGNAGG
 TGGTGAACCGTGCCCN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_003722 unedited
 CCTTGGGGATGGCAACTCCAGGCCAGNAGAGCACTGGGGNAGGGNNTCACAGGGNATGC
 CCACCCGGGNATNCTGTTNCAGGNAACAGCTATGACCCGGCCGCAATCTAGATACCTA
 TCACCATACATGATACCCCTTAAGGGAAGGAGTATAGACAAGCCATCCAAAACAAGTAA
 TTAATAAATGGTCAATAAGTGCAACTCAATTTTCTTTTCAATTTAAATTACATTTTAAACA
 TACTCAATGCCCCCACCAAAAATCTATACTGTATATTTATACATTTATATATATAGTC
 TTAGACTATAAGGGTGAACATGCTTTATAAAAGTCAATGAGAAATCTCTGCAGCTTAAGG
 AGACACCAACTCTTTTTGCTCACTTCTACCTAGCCATGGCAGCTACAGTTCTGCAAGC
 TATAGTTTTGAAGGCTTAAAGCCAGAATCAGAATTAGATGCCAGGTGAGTTAGGTAA
 GAGGTAGCCTCTTACTTCTCTTCCCCTAAGAAATCAGACAAGAGGAAGGGGAGGAGCTA
 GGGAGAAGGCTTTGAAGATTAAGCAGGAGTGCTTTTAGGGGCTGGCAGTTAGGAGAGG
 ATAGGAAGAGCTCACATGGTGAGGCTCACTCCCCCTCTTTTGTGCGCTGTTGCTTAT
 TCGGGCGAGCATCCATGTCAAAGTTGAAGTCATTCCACTCATCTCGGGGTGGGAAAGAGA
 TGGTCTGGGCGGAGGTGAATCGCACAGCATCAATAACACGCTCACCCGGGTCTCACTGG
 AGCCACACTGACTGTAGAGGCACTGCTTGGNGTCCGCAGNAGATGAAGAAGGGAGGAGA
 ATCNTGGAGCTTGGGTGGTCCAGATGCCCTTTCAGATCGCATGTTCAAATTGCT

Restriction Sites:

Please inquire

ACCN:

NM_003722

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](#)

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_003722.3</u> , <u>NP_003713.3</u>
RefSeq Size:	4932 bp
RefSeq ORF:	2043 bp
Locus ID:	8626
UniProt ID:	<u>Q9H3D4</u>
Cytogenetics:	3q28
Domains:	SAM, P53
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) is the longest transcript and encodes the longest isoform (1, also known as TAp63alpha, TA-alpha, KET, and p51B). This isoform is expressed in female germ cells and acts to protect the germline by eliminating oocytes that have suffered DNA damage.</p>