

Product datasheet for MC216651

Trp63 (NM_001127261) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: Trp63 (NM_001127261) Mouse Untagged Clone

Tag: Tag Free Symbol: Trp63

Synonyms: Al462811; delta; Ket; p6; p7; p51/p; P51/P63; P63; P73l; TAp; Tp63; Trp5; Trp53rp1

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-Entry (PS100001) E. coli Selection: Kanamycin (25 ug/mL)

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Fully Sequenced ORF: >MC216651 representing NM_001127261

Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGAATTTTGAAACTTCACGGTGTGCCACCCTACAGTACTGCCCCGACCCTTACATCCAGCGTTTCATAG AAACCCCAGCTCATTTCTCGTGGAAAGAAAGTTATTACAGATCTGCCATGTCGCAGAGCACCCAGACAAG CGAGTTCCTCAGCCCAGAGGTCTTCCAGCATATCTGGGATTTTCTGGAACAGCCTATATGCTCAGTACAG ATTGTATCCGCATGCAAGACTCAGACCTCAGTGACCCCATGTGGCCACAGTACACGAACCTGGGGCTCCT GAACAGCATGGACCAGCAGATTCAGAACGGCTCCTCGTCCACCAGCCCCTACAACACAGACCACGCACAG AATAGCGTGACGGCGCCCTCGCCCTATGCACAGCCCAGCTCCACCTTTGATGCCCTCTCCCATCCCCTG CCATTCCCTCCAACACAGATTACCCGGGCCCACACAGCTTCGATGTGTCCTTCCAGCAGTCAAGCACTGC CAAGTCAGCCACCTGGACGTATTCCACCGAACTGAAGAAGCTGTACTGCCAGATTGCGAAGACATGCCCC ATCCAGATCAAGGTGATGACCCCACCCCCACAGGGCGCTGTTATCCGTGCCATGCCTGTCTACAAGAAAG CTGAGCATGTCACCGAGGTTGTGAAACGATGCCCTAACCATGAGCTGAGCCGTGAGTTCAATGAGGGACA GATTGCCCCTCCCAGTCATCTGATTCGAGTAGAAGGGAACAGCCATGCCCAGTATGTAGAAGATCCTATC ACGGGAAGGCAGAGCGTGCTGGTCCCTTATGAGCCACCACAGGTTGGCACTGAATTCACAACAGTCCTGT ACAATTTCATGTGTAACAGCAGCTGCGTCGGAGGAATGAACAGACGTCCAATTTTAATCATCGTTACTCT GGAAACCAGAGATGGGCAAGTCCTGGGCCGACGGTGCTTTGAGGCCCGGATCTGTGCTTGCCCAGGAAGA GACCGGAAGGCAGATGAAGACAGCATCAGAAAGCAGCAAGTATCGGACAGCGCAAAGAACGGCGATGCTT TCCGTCAGAATACACACGGAATCCAGATGACTTCCATCAAGAAACGGAGATCCCCAGATGATGAGCTGCT GTACCTACCAGTGAGAGGTCGTGAGACGTACGAGATGTTGCTGAAGATCAAAGAGTCACTGGAGCTCATG CAGTACCTCCCTCAGCACACGATCGAAACGTACAGGCAGCAGCAGCAGCAGCACCAGCACCTACTTC AGAAACATCTCCTTTCAGCCTGCTTCAGGAATGAGCTTGTGGAGCCCCGGGGAGAAGCTCCGACACAGTC TGACGTCTTCTTTAGACATTCCAACCCCCCAAACCACTCCGTGTACCCATAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_001127261

Insert Size: 1452 bp

OTI Disclaimer: Due to the inherent nat

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 customer.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. <u>More info</u>

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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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

RefSeq: <u>NM 001127261.1</u>, <u>NP 001120733.1</u>

 RefSeq Size:
 2380 bp

 RefSeq ORF:
 1452 bp

 Locus ID:
 22061

 UniProt ID:
 088898

Cytogenetics: 16 17.37 cM

Gene Summary: This gene encodes tumor protein p63, a member of the p53 family of transcription factors

involved in cellular responses to stress and development. The family members include tumor proteins p53, p63, and p73, which have high sequence similarity to one another. This similarity allows p63 and p73 to transactivate p53-responsive genes causing cell cycle arrest and apoptosis. The family members can interact with each other in many ways, including direct and indirect protein interactions. This results in mutual regulation of target gene promoters. Tumor protein p63 -/- mice have several developmental defects which include the lack of limbs and other tissues, such as teeth and mammary glands, which develop as a result of interactions between mesenchyme and epithelium. Both alternative splicing and the use of alternative promoters result in multiple transcript variants encoding different protein

isoforms.[provided by RefSeq, Dec 2009]

Transcript Variant: This variant (3) lacks an internal 12 nt segment and several 3' exons but has an alternate 3' exon, as compared to variant 1. The resulting isoform (c, also known as TAp63gamma) lacks internal 4 aa and has a shorter and different C-terminus, as compared to

isoform a.