

Product datasheet for RC202792

TBC1D7 (NM_016495) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TBC1D7 (NM_016495) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: TBC1D7
Synonyms: MGCPH; PIG51; TBC7
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC202792 representing NM_016495
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACTGAGGACTCTCAGAGAACTTTCGTTTCAGTATATTATGAGAAAGTGGGGTTTCGTGGAGTTGAAG
 AAAAGAAATCATTAGAAATTCCTCTAAAAGATGACCGTCTGGATACTGAGAACTTTGTACTTTTAGTCA
 GAGGTTCCCTCTCCCGTCCATGTACCGTGCATTGGTATGGAAGGTGCTTCTAGGAATCTTGCCCTCCACAC
 CACGAGTCCCATGCCAAGGTGATGATGATCGTAAGGAGCAGTACTTGGATGTCCTTCATGCCCTGAAAG
 TCGTTCGCTTTGTTAGTATGCCACACCTCAGGCTGAAGTCTATCTCCGATGTATCAGTGGAGTCTGG
 GAAGTTACCTCGAAGTCCCTCTTTTCCACTGGAGCCAGATGATGAAGTGTTCCTTGCCATAGCTAAAGCC
 ATGGAGGAAATGGTGAAGATAGTGTGCGACTGTTACTGGATCACCCGACGCTTTGTGAACCAATTAATA
 CCAAGTACCGGGATTCCTTGCCCCAGTTGCCAAAAGCGTTTGAACAATACTTGAATCTGGAAGATGGCAG
 ACTGCTGACTCATCTGAGGATGTGTTCCGCGGCCGCCCCAACTTCCTTATGATCTCTGGTTCAAGAGGTGC
 TTTGCGGGATGTTGCTGAATCCAGTTTACAGAGGGTTGGGATAAAGTTGTGAGTGGATCCTGTAAAGA
 TCCTAGTTTTGTAGCTGCGAAATTTTAACTTTAAAATAAAGTTATGGCACTGAACAGTGCAGA
 GAAGATAACAAAGTTTCTGAAAAATATCCCCAGGACAGCTCAGACGCGATCGTGAGCAAGGCCATTGAC
 TTGTGGCACAACACTGTGGGACCCCGTCCATTCAAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC202792 representing NM_016495
Red=Cloning site Green=Tags(s)

MTEDSQRNFRSVYYEKVGFGRGVEEKKSLEILLKDDRLDTEKLCTFSQRFPLPSMYRALVWKVLLGILPPH
 HESHAKVMMYRKEQYLDVHLALKVVRVSDATPQAEVYLRMYQLESGKLRSPSPFLEPDDEVFLAIKA
 MEEMVEDSVDCYWITRRFVNQLNTKYRDSLPLPKAFEQYLNLEDGRLLTHLRMCSAAPKLPYDLWFKRC
 FAGCLPESSLQRVWDKVVSGSCKILVFVAVEILLTFKIKVMALNSAEKITKFLENIPQDSSDAIVSKAID
 LWHKHCCTPVHSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_016495

ORF Size: 879 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_016495.6](#)

RefSeq Size: 1322 bp

RefSeq ORF: 882 bp

Locus ID: 51256

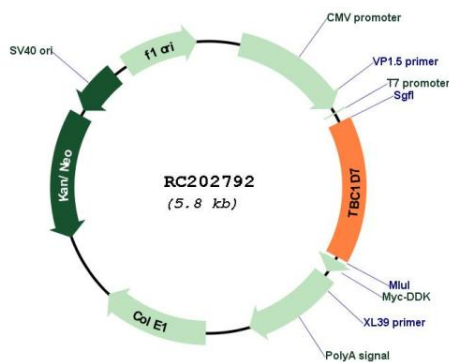
UniProt ID: [Q9P0N9](#)

Cytogenetics: 6p24.1

MW: 34 kDa

Gene Summary: This gene encodes a member of the TBC-domain containing protein family. The encoded protein functions as a subunit of the tuberous sclerosis TSC1-TSC2 complex which plays a role in the regulation of cellular growth and differentiation. Mutations in this gene have been associated with autosomal recessive megalencephaly. Alternative splicing results in multiple transcript variants. Naturally occurring readthrough transcription occurs between this locus and downstream LOC100130357. [provided by RefSeq, Jan 2016]

Product images:



Circular map for RC202792