

Product datasheet for **SC114250**

TBC1D7 (NM_016495) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TBC1D7 (NM_016495) Human Untagged Clone
Tag:	Tag Free
Symbol:	TBC1D7
Synonyms:	MGCPH; PIG51; TBC7
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC114250 sequence for NM_016495 edited (data generated by NextGen Sequencing)

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ATGACTGAGGACTCTCAGAGAACTTTTCGTTTCAGTATATTATGAGAAAGTGGGGTTTCGT
GGAGTTGAAGAAAAGAAATCATTAGAAATTCTCCTAAAAGATGACCGTCTGGATACTGAG
AACTTTGTACTTTTAGTCAGAGTTCCCTCTCCCGTCCATGTACCGTGCATTGGTATGG
AAGGTGCTTCTAGGAATCTTGCCTCCACACCACGAGTCCCATGCCAAGGTGATGATGAT
CGTAAGGAGCAGTACTTGGATGTCCTTCATGCCCTGAAAGTCGTTTCGCTTTGTTAGTGAT
GCCACACCTCAGGCTGAAGTCTATCTCCGCATGTATCAGCTGGAGTCTGGGAAGTTACCT
CGAAGTCCCTCTTTTCCACTGGAGCCAGATGATGAAGTGTTCCTTGCCATAGCTAAAGCC
ATGGAGGAAATGGTGAAGATAGTGTGACTGTTACTGGATCACCCGACGCTTTGTGAAC
CAATTAATAACCAAGTACCGGGATTCCTTGCCCCAGTTGCCAAAAGCGTTTGAACAATAC
TTGAATCTGGAAGATGGCAGACTGCTGACTCATCTGAGGATGTGTTCGCGGCGCCAAA
CTTCTTATGATCTCTGGTTCAAGAGGTGCTTTGCGGGATGTTTGCCTGAATCCAGTTTA
CAGAGGGTTTGGGATAAAGTTGTGAGTGGATCCTGTAAGATCCTAGTTTTGTAGCTGTC
GAAATTTTATTAACCTTTAAAATAAAAGTTATGGCACTGAACAGTGACAGAGAAGATAACA
AAGTTTCTGGAATAATTCCTCCAGGACAGCTCAGACGCGATCGTGAGCAAGGCCATTGAC
TTGTGGCACAAACTGTGGGACCCCGTCCATTCAAGCTGA
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Clone variation with respect to NM_016495.4



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_016495 unedited
 NGGTCAGCATTTGTATACGACTCACTATAGGCGGCCGCGAATTCGCACGAGGCCCGGCCG
 TCTGGGCGCGCGGGGTGTCCCAGGTACCCCGCCGCTCCCTCCTTCCCGCAGGACTCGT
 GCCTCCTGGCCCTGGGCCCAACGGTGCCCGCTGCCCGCGGTCCGTGAGCGCACAGGG
 CACGGCTCCTCTGCTTCTCCGGACCCTTAGTCTCAACCCGGGTGTGTTGCACTACT
 AGAGAATGAAATATGACTGAGGACTCTCAGAGAAAATTCGTTCCAGTATATTATGAGAAA
 GTGGGGTTTCGTGGAGTTGAAGAAAAGAAATCATTAGAAAATTCCTAAAAGATGACCGT
 CTGGATACTGAGAACTTTGTACTTTTAGTCAGAGGTTCCCTCTCCCGTCCATGTACCGT
 GCATTGGTATGGAAGGTGCTTCTAGGAATCTTGCCTCCACACCAGAGTCCCATGCCAAG
 GTGATGATGATCGTAAGGAGCAGTACTTGGATGTCTTCATGCCCTGAAAGTCGTTTCGC
 TTTGTTAGTGATGCCACACCTCAGGCTGAAGTCTATCTCCGCATGTATCAGCTGGAGTCT
 GGGAAGTACCTCGAAGTCCCTCTTTTCCACTGGAGCCAGATGATGAAGTGTTCCTGGCC
 ATAGCTAAAGCCATGGAGGAAATGGTGAAGATAGTGTGACTGTTACTGGATCACCCGA
 CGCTNTGTGAACCAATTAATACCAAGTACCGGGATTCTTGCCCGAGTGC AAAAGCG
 TTTGAACAATACTTGAATCTGGAAGATGGCAGACTGCTGACTCATCTGAGGATGTGTTCC
 GCGGCCCAACTCCTTATGATCTCTGGNTCAAGAGTGCTTTGCGGGNAGTTNGCCTGAA
 TCCAT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_016495 unedited
 CGCAATCTAAAGTCGAGTTTTTTTTTTTTTTTTTTTGGCTTGCAGAATATTTATTTTAGAT
 CTCTCAGCAGTACAGTAAGAGTCTTTCGTTTCAGATCAGCTGGCCTCCAGCCAAAGCAGC
 GAAGTCAGAGGAACTTCAGCCCCAAGCCTTCTGCTCCCTAAGAGTACCAGCGCTCCTG
 CCTGGCTCCGGCATAAATGGTTGCAATAAGTCATTTTTTATTAATAATTTAACTCTAGG
 CAGCAATTTTGCTTTAAAGTTTTTCTTGGAGTGCATTTTTATTTAAAAAATTAAT
 ACTCTTGGATATGTTAGTATTCAGAAGCAGCAGATTTCAACAGCTCACACTTTCTCTGAA
 CTTTTTTTCAACAGATATTTACACACTAAGGAGGGCCTGAATTCAGAAATGTACCTC
 TATAAGTTCATAGCTGCCCTCGTCTTTTAGGGGTGGGTGAAAAATCCAACCTCACCACTC
 AGGCTCTTGCAGGTCTGAAGGCTAAACCGGTGTGAAACAAAGGGTCCCCTTCACTCACT
 ACTCCCAAAGCCGGAACTATCCAGTGAAGAGTGGCCATGCCATTTACGTGGCACAAGGT
 GGCCCAAGGGTGTGAGCTGTTACCTTACCGGCCATTTCTCTCACTGCTTTAGTGCCT
 GGCACAGTGCACCCTAACATCCACATTTAACACCCCATCAAGAAAATGTGAGTGACAGCA
 AATATCCAACCAAGTACTTTGCTCCTAGAGCANTCAAACACATTTGTTCAATGTTTCAT
 TCAACTGGCCCAANAGAAAAGAGTTAGGATTGTTAAAGCCTGTTTACACGAGAAACCTAA
 AAGCATTGGCTGGATTAACCGTATGCTCACAAGCCAACCTGAGTGTACAAGGAAGACCCT
 ATCTAAAACAACCTGAAGACACCTGNGCTANTAAGACGCAGCAGCTATTATCCTGTGTTAA
 CCCCCTCCCT

Restriction Sites:

NotI-NotI

ACCN:

NM_016495

Insert Size:

2500 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).

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_016495.2](#), [NP_057579.1](#)

RefSeq Size: 1147 bp

RefSeq ORF: 882 bp

Locus ID: 51256

UniProt ID: [Q9P0N9](#)

Cytogenetics: 6p24.1

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]
Transcript Variant: This variant (1) encodes the longest isoform (a). Variants 1, 2, 3, and 6 encode the same isoform (a).