

Product datasheet for **RC232272**

TBC1D7 (NM_001258457) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TBC1D7 (NM_001258457) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TBC1D7
Synonyms:	MGCPH; PIG51; TBC7
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC232272 representing NM_001258457 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTGAGGACTCTCAGAGAACTTTCGTTTCAGTATATTATGAGAAAGTGGGTTTCGTGGAGTTGAAG
AAAAGAAATCATTAGAAATTCCTAAAAGATGACCGTCTGGATACTGAGAACTTTGTACTTTTAGTCA
GAGGTTCCCTCTCCCGTCCATGTACCGTGCATTGGTATGGAAGGTGCTTCTAGGAATCTGCCTCCACAC
CAGGAGTCCCATGCCAAGGTGATGATGTATCGTAAGGAGCAGTACTTGGATGTCCTTCATGCCCTGAAAG
TCGTTTCGTTTGTAGTATGCCACACCTCAGGCTGAAGTCTATCTCCGCATGTATCAGCTGGAGTCTGG
GAAGTTACCTCGAAGTCCCTCTTTTCCACTGCCAAAAGCGTTTGAACAATACTTGAATCTGGAAGATGGC
AGACTGCTGACTCATCTGAGGATGTGTTCCGCGGCCCAAACCTCCTTATGATCTCTGGTTCAAGAGGT
GCTTTCGCGGATGTTGCCTGAATCCAGTTTACAGAGGGTTTGGGATAAAGTTGTGAGTGGATCCTGTAA
GATCCTAGTTTTGTAGCTGTCGAAATTTATTAACCTTAAAAAAAAGTTATGGCACTGAACAGTGCA
GAGAAGATAACAAAGTTTCTGAAAAATATCCCCAGGACAGCTCAGACCGCATCGTGAGCAAGGCCATTG
ACTTGTGGCACAACACTGTGGACCCCGTCCATTCAAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC232272 representing NM_001258457
Red=Cloning site Green=Tags(s)

MTEDSQRNFRSVYYEKVGFGRGVEEKSLIILLKDDRLDTEKLCTFSQRFPLPSMYRALVWKVLLGILPPH
 HESHAKVMYRKEQYLDVLHALKVVRFVSDATPQAEVYLRMYQLESGKLPRSPFPLPKAFEQYLNLEDG
 RLLTHLRMCSAAPKLPYDLWFKRCFAGCLPESSLQRVWDKVVSGSCKILVFAVEILLTFKIKVMALNSA
 EKITKFLENIPQDSSDAIVSKAIDLWHKHCCTPVHSS

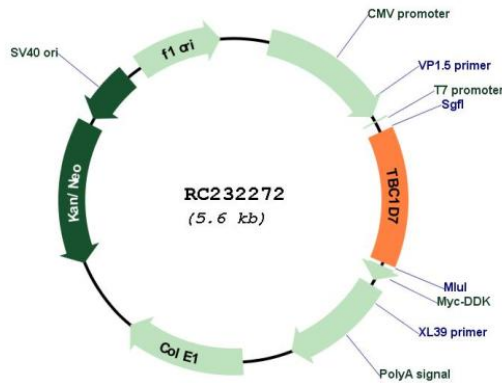
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001258457
ORF Size: 741 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:	<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:	NM_001258457.2 , NP_001245386.1
RefSeq Size:	1042 bp
RefSeq ORF:	744 bp
Locus ID:	51256
UniProt ID:	Q9P0N9
Cytogenetics:	6p24.1
MW:	29 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]