

Product datasheet for **MC229021**

Tbc1d5 (NM_001285991) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tbc1d5 (NM_001285991) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tbc1d5
Synonyms:	1600014N05Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC229021 representing NM_001285991
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTATAAGTCTGTGTCTGAAACGAGACATCCTCTGCAGTCAGAAGAACAAGAAGTAGGCATTGACCCCT
 TGTTCAAGTTATTCAAATAAAACAAGAGGAGATCTAAGTCAAATGGAAGAGGATCAAATTCACCTTAGA
 CACTGAAGGGACGTTCAATTCATATATGAAAGAATGGAAGAAGTATTTGTAAACAACAATTACTTGCA
 ACAGTAAGACAGAAGGGGATTAATGGGCAGCTGAGAAGCAGCAGGTTCCGCAGCATTGCTGGAAGCTCT
 TTCTTTGTGTTCTTCTCAAGATAAAAGTCAGTGGATAAGTAAATCAAAGAAGTAAAGAGCTGGTATAG
 CAGTATTAAGAAATACACATCACTAACCCAAGGAAGGCTGCCGGCCAGCAGGATCTGATGATCAACAAC
 CCCCTATCACAGGATGAAGGAAGTCTTTGGAACAAGTTCTTTCAAGATAAAGAAGTAAAGAGCTGGTATG
 AGCAAGATGTCAAAGAAGCTTTCTGAAATGCAGTTTTTCCAACAAGAAAATGTGAGAAAAATTCTTAC
 AGATGTTCTGTTCTGCTATGCAAGAGAGAACGAGCAGTTGCTTTCAAACAGGGTATGCATGAGCTACTA
 GCGCTATCATCTTTACCTCCACTGTGACCACCAAGCTTTTCTACATGCCAGCGAGTCTGCACAGCCCA
 GTGAGGAAATGAAAAGTCTCTGAAACCTGAGTATCTGGAGCATGATGCCTATGCAATGTTCTCACAGCT
 TATGAAAAGTCTGAAACCTTGGTTTTCTACGTTTGGAGCATGATGGTCAAAGGGAAAAGAAAAGTCTGATG
 GCCCCATTCCCTTTGCTCGACCACAGGATTTAGGGCCACAGTTGCCATTGTTACAAAAGTCAACCAGA
 TCCAGGACCATCTACTGAAGAAACATGATATTGAGCTCTACATGCACCTGAACAGACTAGAAAATGCACC
 ACAATATATGGGTTACGATGGGTGCGGCTGCTGTTGGCAGAGAGTTCCCTCTGCAGGACCTGCTGGTG
 GTCTGGGATGCCCTGTTGCGGATAGCCTCAACCTGAGCTTAGTCGACTATGCTTACAGCCATGCTCAAT
 TCTATATCCGAGATGCTTTGATTTCTAGTAACTATCAGACCTGTCTTGGCCTTCTGATGCATTATCCAAT
 CATCGGGGACATACACTCACTGATACTGAAGGCTCTGTTCCCTTAGAGACCCAAAGAGAAAATCCAAGGCCG
 GCGACTTACCAGTTCACCCCAACTTAGACTACTCAAAGCACGGGGAGCCGACCTTATGAACAAAAGCC
 GGACCAATGCCAGAGGTGCTCCCTGAATATACACAAGGTCTCCAACAGCTTGATTAAGTTTGAAGAAA
 GCTGATTTCCCGCCTCAGCTCCGGGAGTATGGGTGGCCCTGTACCCGAAACAACAGCAGCAGTTCC
 TTCTCTGCTGCCATCCCCACCAGGACCTCCACAGAAGCCCAAGGCATCATTTGCTGCAGCAGCAACAGC
 AGCAGCAGCACCAGCAGCAGCAGCAGCAACCAAGCAGCAGCAGCAGCAACACCAGCAGCAACAGCA
 GCAGCAGAGACTGATGAAATCTGAAAGCATGCCGGTACAGTTGAACAAAGGCGACGTAGTTACAGGAAGC
 GATGCTCAGGTTTCTGTTCTGCTCCAGGCTCTAACTGACCTCCAAGGGCAAAGTTCGAAAACCATCAGTT
 CATCTCCAAGTATCGAGAGTTTGCCTGGGGAAAGAGAATTCAGTGGCTCTCCACCTCCATCCGCTACTAA
 AAAGGATTCCTTTTTAGCAACATCGCAGCTTCCCGTTACACAGCAAAAACCATGGGCAGAAAAGAGTCT
 GAAGAAGAACTAGAGGCTCAGATCTCCTTCTACAAGGCCAGCTGAATGACCTGGATGCCATGTGCAAGT
 ACTGTGCAAAGGTCATGGACATGCATCTTGAACATTCAAGATGTGGTATTACAAGAGAATTTGGAAAA
 AGAAGATCAAATCTGGTGTCTTGGCAGGATTAACAGATCAAAGACATTCTGAAAGGTTCCCTGCGC
 TTCAACCAGAGCCAGCTGGAGGCTGGCGAGAATGAGCAGATTACCATCGCTGATGACCACTACTGCTCCA
 GTGGCCAGGACCAGGCCAGCAAGTTCTAGGGCCGCCAAGCAGGCTCTTCAGAGATGCCAGGGTGCAC
 CGGTGGAACGACCCAGATGACTTATTCTGGTTTCAAAGAAGATGAGGGGCACCGTCCAGGGGGGCC
 TTCTCAGGCCAGGCCAGCCTTCTCACCTCAGAAGCACATCTGGGAAAAGCCGAGCCCCAGCCTGCT
 CCCCAGTCTGTTCTCAGACCCACTGATGGGCCAGCCTCAGCCTCAGCCTCCTCCAGCAACCCAGCTC
 CAGCCCCGATGATGACAGCAGCAAGGAGTCTGGCTTACCATTGTGAGCCCTTGGACATCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAAAGTCTCAGAAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001285991
Insert Size: 2514 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001285991.1, NP_001272920.1</u>
RefSeq Size:	5682 bp
RefSeq ORF:	2514 bp
Locus ID:	72238
Cytogenetics:	17 C
Gene Summary:	<p>May act as a GTPase-activating protein for Rab family protein(s). May act as a GAP for RAB7A. Can displace RAB7A and retromer CSC subcomplex from the endosomal membrane to the cytosol; at least retromer displacement seems to require its catalytic activity. Required for retrograde transport of cargo proteins from endosomes to the trans-Golgi network (TGN); the function seems to require its catalytic activity. Involved in regulation of autophagy. May act as a molecular switch between endosomal and autophagosomal transport and is involved in reprogramming vesicle trafficking upon autophagy induction. Involved in the trafficking of ATG9A upon activation of autophagy. May regulate the recruitment of ATG9A-AP2-containing vesicles to autophagic membranes (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (a). Sequence Note: The RefSeq transcript was derived from the reference genome assembly. The genomic coordinates were determined from alignments.</p>