

## Product datasheet for **MR208694**

### **Tbc1d17 (BC017607) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Tbc1d17 (BC017607) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tbc1d17
Synonyms:	MGC27642
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR208694 representing BC017607  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAAGGATCCAGCTACAGGGTGGTGTGTTGAAAAGGGAGGCGTGTACCTGCACACCAGCGCCCGAAAC  
 ACCAGGATCCAGACTCGCTCATCGCCGGGTCATACGAGTGGTGGAAAAGGACAGCGACGCTTTCTGCA  
 CTGGGCTCCGGTGGAGGAGGCTGGAGACCAACCCAGATTCTCTTCAAGAAGGACCCGAGTCGGGGTGAG  
 CCCAGCACCTCAGAGGAGGAACCTACCTTTGACCCAGGCTATGAACCTGACTGGGCTGTATTAGCACGG  
 TGCGGCCACAGCCACCTGGCAGAGCCAGGAAAGGTGCAGAGCCAGTTCTCCCGGAGCTCTGGGC  
 CTTCTCCGTGAGCCTGGGGGAGCTCAAGTCCATCCGCAGATCCAAGCCAGGCCTCAGCTGGGCTACCTG  
 GTCCTGGTGACCCAGGCTGGAGGCTCCCTGCCTGCCTTACTTTACAGAGGGGGTACCCGAGCCCTGC  
 TCCGAGTCTTAGCCGATACCTGCTGTTGGCCAGCTCTCCACAGGACTCCCGCCTCTACTGGTCTTCCC  
 CCAGGACCCCTCTGCCCTGTCGACTCCTTCCACCACCTGCAGCTCTTTGACCAGGACAGCTCCAATGTG  
 GTGTCTCGTTTCCTTACGACCCCTACTCCACCACCTTACAGTAGCTTCTCTCGAGTGACCAACTTCTCC  
 GGGGAGCCCTACAGCCGACCCCTGAGGGCGCCTCTCCCTAACCTACCCCGCTGCCAGATGATGAACC  
 AGAGCCTGGCTTTGAGGTCATTTCTGCGTGGAGCTGGGGCAGCGTCCCACAGTGGAGCGTGCTCTCCA  
 GTCACAGAGGAAGAGTGGAAACCGCTACGTGGGCCCGAGGGTCCGCTGCAGAATGTCCTTGAGTTGAAA  
 ACCGGATCTTCTCAGGCGGTCTCAGCCCTGGCCTACGTGAGAGGCTTGGAAAGTCTTCTGGGGTACCT  
 TAGCTGGGAGAGCTCAGTGAAGAGCACAAAGCGCATGTGCGGAAGAAAACGGATGAGTACTTCCGAATG  
 AAGCTGCAGTGAAGTCTGTGAGTGTGAGCAGGAGCGGAGGAACCTACTGCTGCATGGAACCGAAGCC  
 TCATTGAGAGAGATGAAGCCGACAGGACTAACAAGTTCTATGAAGGCCCTGAGAACCCCTGGGCT  
 GAGCCTGCTCCATGATATCCTTCTTACCTACTGCATGTACCACTTCGACTTGGGCTACGTTCAAGGTATG  
 AGTGACCTCCTGTCCCGATCCTCTTCTGTTGTTGAGAACGAAGTAGATGCCTTCTGGTGTCTGCGGCT  
 TCATGGAACCTGTGCATGGAACTTTGAAGAGAGTCAAGGAGACTATGAAGCGGCAGCTTGGGCAGCTCT  
 GCTGCTTCTGCGGGTGTGGATCAGCCACTCTGTGATTTCTGGATTCTCAGGACTCGGGCTCGCTGTGC  
 TTCTGTTTCCGGTGGCTGCTCATCTGTTCAAGAGGGAATCCCTTTCTGATGCTCTCCGGCTGTGGG  
 AGGTGGGCGGCCAGTTGGGGTGTGTGGACAGGCTTCTGGCCCAATTTGCACCTGCTGGTGGCCTGT  
 GCCATCTGGATATGGAACGGGACACC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208694 representing BC017607  
 Red=Cloning site Green=Tags(s)

MEGSSYRVVFEKGGVYLHTSARKHQDPDSLIAQVIRVVEKDSDFLHWAPVEEAGDPTQILFKKDP SRGE  
 PSTSEEEPTDFPGYEPDWAIVISTVRPQPHLAEPKGAEPSSSRSSWAFSVSLGELKSIRRSKPLSWAYL  
 VLVTQAGGSLPALHFHRGGTRALLRVLRYLLASSPQDSRLYL VFPQDPSALSDSFHHLQLFDQSSNV  
 VSRFLQDPYSTTFSSFSRVTNFFRGALQPHPEGASSPNLPPLPDDPEPEPGFEVISCVELGQRPTVERAPP  
 VTEEEWNRVYVPEGRQLQNPVELKNRIFSGGLSPGLRREAWKFLLYL SWESSAEHKAHVRKKTDEYFRM  
 KLQWKSVAEQERRNSLLHGYRSLIERDVSRTDRTNKFYEGPENPGLSLLHDILLTYCMYHFDLGYVQGM  
 SDLLSPILFVVQNEVDAFWCFGMELVHGNFEE SQETMKRQLGQLLLLLRVLDQPLCDFLDSQDSGSLC  
 FCFRWLLIWFKREFPPDVLRLWEVGGQLGCCGQGLAPICTCWVPVPSWIWNGTP

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** BC017607

**ORF Size:** 1638 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.

**RefSeq:** [BC017607.1](#)

**RefSeq Size:** 2376 bp

**RefSeq ORF:** 1640 bp

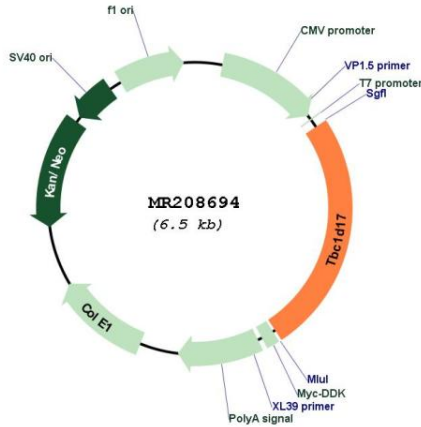
**Locus ID:** 233204

**Cytogenetics:** 7 B3

**MW:** 87.1 kDa

**Gene Summary:** Probable GTPase-activating protein for Rab8; its transient association with Rab8 is mediated by OPTN. Inhibits Rab8-mediated endocytic trafficking, such as of transferrin receptor (TfR) and reduces Rab8 recruitment to tubules emanating from the endocytic recycling compartment (ERC). Involved in regulation of autophagy. Mediates inhibition of autophagy caused by the OPTN variant GLC1E LYS-50; the function requires its catalytic activity, however, the involved Rab is not known (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR208694