

Product datasheet for **MG208694**

Tbc1d17 (BC017607) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tbc1d17 (BC017607) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tbc1d17
Synonyms:	MGC27642
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208694 representing BC017607
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGAAGGATCCAGCTACAGGGTGGTGTGTTGAAAAGGGAGGCGGTACCTGCACACCAGCGCCCGAAAC
 ACCAGGATCCAGACTCGCTCATCGCCGGCGTCATACGAGTGGTGGAAAAGGACAGCGACGCTTTCTGCA
 CTGGGCTCCGGTGGAGGAGGCTGGAGACCAACCCAGATTCTCTTCAAGAAGGACCCGAGTCGGGGTGAG
 CCCAGCACCTCAGAGGAGGAACCTACCTTTGACCCAGGCTATGAACCTGACTGGGCTGTATTAGCACGG
 TGGCGCCACAGCCCCACCTGGCAGAGCCAGGAAAGGTGCAGAGCCAGTTCTCCCGGAGCTCTGGGC
 CTTCTCCGTGAGCCTGGGGGAGCTCAAGTCCATCCGCAGATCCAAGCCAGGCCTCAGCTGGGCTACCTG
 GTCCTGGTGACCCAGGCTGGAGGCTCCCTGCCTGCCTTACACTTTACAGAGGGGGTACCCGAGCCCTGC
 TCCGAGTCCTTAGCCGATACCTGCTGTTGGCCAGCTCTCCACAGGACTCCCGCCTCTACTTGGTCTTCCC
 CCAGGACCCCTCTGCCCTGTCCGACTCCTTCCACCACCTGCAGCTCTTTGACCAGGACAGCTCCAATGTG
 GTGTCTCGTTTCTTTCAGGACCCCTACTCCACCACCTTCACTAGCTTCTCTCGAGTGACCAACTTCTTCC
 GGGGAGCCCTACAGCCGACCCCTGAGGGCGCCTCTCCCTAACCTACCCCCGCTGCCAGATGATGAACC
 AGAGCCTGGCTTTGAGGTCAATTTCTTGCCTGGAGCTGGGGCAGCGTCCCACAGTGGAGCGTGCTCTCCA
 GTCACAGAGGAAGAGTGGAAACCGCTACGTGGGCCCCGAGGGTCGCTGCAGAATGTCCCTGAGTTGAAAA
 ACCGGATCTTCTCAGGCGGTCTCAGCCCTGGCCTACGTCGAGAGGCTTGAAGTTCTTCTGGGGTACCT
 TAGCTGGGAGAGCTCAGCTGAAGAGCACAAAGGCGCATGTGCGGAAGAAAACGGATGAGTACTTCCGAATG
 AAGCTGCAGTGAAGTCTGTGAGTGTGAGCAGGAGCGGAGGAACTCACTGCTGCATGGATACCGAAGCC
 TCATTGAGAGAGATGAAGCCGACGGACAGGACTAACAAGTTCTATGAAGGCCCTGAGAACCCCTGGGCT
 GAGCCTGCTCCATGATATCCTTCTTACCTACTGCATGTACCACTTCGACTTGGGCTACGTTCAAGGTATG
 AGTGACCTCCTGTCCCCGATCCTCTTCTGTTTGAAGAACGAAGTAGATGCCTTCTGGTGTCTGCGGCT
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 GCTGCTTCTGCGGGTCTGGATCAGCCACTCTGTGATTTCTGGATTCTCAGGACTCGGGCTCGCTGTGC
 TTCTGTTTCCGGTGGCTGCTCATCTGTTCAAGAGGGAATTCCTTCTGATGTCTCCGGCTGTGGG
 AGGTGGGCGGCCAGTTGGGGTGTGTGGACAGGGCTTCTGGCCCAATTTGCACCTGCTGGTGGCCTGT
 GCCATCTTGATATGGAACGGGACACC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

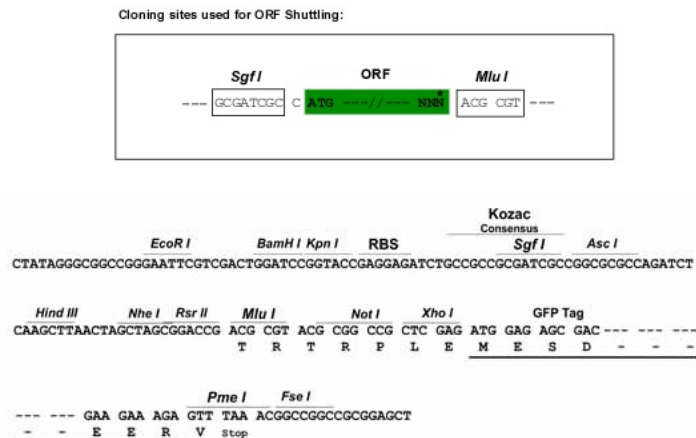
>MG208694 representing BC017607
 Red=Cloning site Green=Tags(s)

MEGSSYRVVFEKGGVYLHTSARKHQDPDSLIIAGVIRVVEKDSDFLHWAPVEEAGDPTQILFKKDPSRGE
 PSTSEEEPTFDPGYEPDWAIVSTVRPQPHLAEPKGAEPSSSRSSWAFSVSLGELKSIRRSKPGLSWAYL
 VLVTQAGGSLPALHFHRRGTRALLRVLRYLLASSPQDSRLYLVPQDPSALSDSFHHLQLFDQSSNV
 VSRFLQDPYSTTFSSFSRVTNFFRGALQPHPEGASSPNLPPLPDDEPEPGFEVISCVELGQRPTVERAPP
 VTEEEWNRVVGPEGRLLQNPVELKNRIFSGGLSPGLRREAWKFLGLYLSWESSAEHKAHVRKKTDEYFRM
 KLQWKSVAEQERRNSLLHGYRSLIERDVSRTDRTNKFYEGPENPGLSLLHDILLTYCMYHFDLGYVQGM
 SDLLSPILFVVQNEVDAFWCFGFMELVHGNFEESQETMKRQLGQLLLLLRVLDQPLCDFLDSQDSGLC
 FCFRWLLIWFKREFPPDVLRLWEVGGQLGCCGQFLAPICTCWWPVPSWIWNGTP

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-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.

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

RefSeq: [BC017607.1](#)

RefSeq Size: 2376 bp

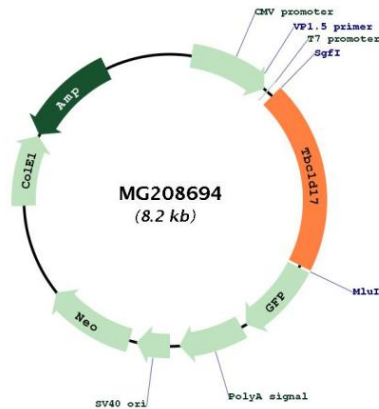
RefSeq ORF: 1640 bp

Locus ID: 233204

Cytogenetics: 7 B3

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 MG208694