

## Product datasheet for **MG219269**

### Tbc1d4 (NM\_001081278) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Tbc1d4 (NM\_001081278) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Tbc1d4  
**Synonyms:** 5930406J04Rik; A930035N22; As160; AV295684  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG219269 representing NM\_001081278  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGGATCGCC

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 CACAGCCAGGTGCCACCAAGCCTGGCGACAAGCGCTTCCGGCTATGGTACGTGGGAGGGTCTTGCTTGA  
 TCGCAGGACCACGCTACCCATGCTCCCTGGCTCATGGCCGAGATCCGTCGGCGCAGCCAGAAGCCCGAT  
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 TCCTTGCGCCGGGTGCCGGGTGCGGGGGCGCAGGCTCCGGGGCTGTGCAGCCCAACACCGGGGTGTT  
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 GTCTCCTGTGTCTCCAGATGACAGCCTGCCGAGAAGGCAGATGGTACAGTCAACAGCCCCCGTGCCCTG  
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 AGAGGATTTTGAAGACTGTGGCTTTGACGAGCAGCAAGAGTTCCGATCTCGGTGACGACGCTCACAGG  
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 AGTCACGTGCAGCCCTCAGACTCGGAGAAGAATCGGACCATGCTCTTCCAGGTCGGCCGCTTTGAGATTA  
 ACCTCATCAGTCCCGACACTAAATCAGTCGTGCTGGAGAAGAATTTCAAAGATATCTCCTTGTCTCA  
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 TTTGCATAAGCTCTGTGAGAGAATCGAAGTCTCTACCCACCTCGAGCCAAGCTGTAATCCAGAGGCAC



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CTCTCTTCGCTGACGGATAACGAGCAAGCTGACATCTTTGAACGGGTTTCAGAAGATGAAGCCCATCAGCG  
ACCAGGAGGAGAACGAACCTTGATTTCTGCACCTGAGGCAGCTCTGTGAAGCCAAGCAGAGGACCCACGT  
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GCTTTAATCCGGACCCTGGAACAAGATAAAATGGCATATCAAAGACAGTGAACAGATCCGGAAGCTGC  
TACCAGCAGATGCGCTGGCCAACCTGTGAATTGCTGTTGAAAGACTTAACTCATCCAACGAATGACAAAGC  
CAAGGCAGGAAATAGCCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG219269 representing NM\_001081278  
 Red=Cloning site Green=Tags(s)

MESPSCIQDEPFPHLEPEPSAPAQPGATKPGDKRFRLWYVGGSCLDLRRITLPLPWLMAEIRRRSQKPD  
 AGGCGAPAAAREVILVLSAPFLRCVPAPGAGVGGGAGSGAVQPNTGVFIFEHKAQHISRFIHNSHDLTYFA  
 YLIIKAQDDPESQMACHVFRATDPNQVPDVISSIRQLSKAAMKEDSKPSKDNEDAFYNSQKFEVLYCGRV  
 IVTHKKAPSSLIDDCKDKFSLHEQRLKLGQERGGDPGDEMGLVEVEVSPVSPDSSLPEKADGTVNSPRAL  
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 SLNAGGTPVTPRRVSWRQRIFLRVASPVNKSAMQKQDGLDRTELLPLSPLSPTMEEELIIFLSGDE  
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 YDLGFRKQYRPMMSLQIQMYQLSRLLDHYHRELYNHLEENEISPSLYAAPWFLTLFASQFPLGFVARVF  
 DIIFLQGTVEVIFKVALSLLSSQEALIMECENFENIVEFLKSTLPDMNTTEMKIITQVFEMDISKQLHAY  
 EVEYHVLQDELLESSYACEDNESLEKLERANNQLKRQNMDDLEKLQVAHAKIQALESNLETLLTRETMMK  
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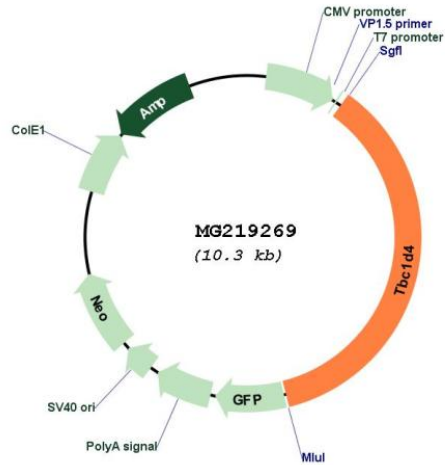
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_001081278

**ORF Size:** 3729 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:** [NM\\_001081278.2](#), [NP\\_001074747.2](#)

**RefSeq Size:** 6641 bp

**RefSeq ORF:** 3732 bp

**Locus ID:** 210789

**UniProt ID:** [Q8BYJ6](#)

**Cytogenetics:** 14 E2.3

**Gene Summary:** May act as a GTPase-activating protein for RAB2A, RAB8A, RAB10 and RAB14. Promotes insulin-induced glucose transporter SLC2A4/GLUT4 translocation at the plasma membrane, thus increasing glucose uptake (By similarity).[UniProtKB/Swiss-Prot Function]