

## Product datasheet for **SC125610**

### TBC1D21 (NM\_153356) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** TBC1D21 (NM\_153356) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** TBC1D21  
**Synonyms:** MgcRabGAP  
**Vector:** pCMV6-XL5  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**Cell Selection:** None  
**Fully Sequenced ORF:** >OriGene sequence for NM\_153356 edited

```
CAACCCATCTCCGAAAAGGATTAAGCATCACTAGGGCTCCAAGTGAGTTCTGATCAGAGG
CTGTTTCGGAAGACAGCAGGGGCCATGACCACCCTCTCTCCTGAAAACAGCCTCTCTGCCA
GACAGTCAGCCTCCTTCATCCTGGTGAAGAGAAAACCACCATTGACAAGACAGAATGGG
ACAGCTTCTTTGATGAGAGTGGCCACTTGGCCAAATCACGGGACTTCATTTGTGTTAAACA
TCCTGGAAAGGGGTCTGCACCCCTTCGTGAGGACTGAAGCCTGGAAATTCCTCACGGGCT
ACTTCTCATGGCAGAGTCCCAGGATGAGCGGCTCACGGTGGACAGCATGAGGAGGAAGA
ACTACAAGGCCTTATGCCAAATGTATGAGAAGATTCAGCCCTTCTGGAAAACCTGCACC
GGAACCTCACAGAGACTCGCAATAACATTGCACGTGACATTCAGAAAATCTATGACAAAG
ATCCCCTGGGCAACGTCCCTCATCGACAAGAAGAGGCTAGAGAAGATCTTGCTCCTGAGTT
ACGTCTGCAACACGCAGGCAGAGTACCAGCAGGGCTTCCATGAGATGATGATGCTCTTCC
AGCTGATGGTGGAGCAGCACCACGAGACCTTCTGGCTTTTCCAGTTCTTCTGCAGAAAA
CGGAACACAGCTGTGTCATCAACATTGGCGTGGCCAAGAACCTAGACATGCTCAGCACCC
TGATCACCTTCTGGACCCCGTGTGCTGAGCACCTAAAAGGGAAGGGTGCAGGGGCTG
TGCAGTCCCTCTCCCTGGTTCTGCTTCTGCTTCCAGCGTGCCTTCAAGTCCTTCGATG
ATGTCTGGAGGCTCTGGGAGTTCTGCTGACGGGAAGCCCTGCAGGAACCTCCAGGTGC
TGGTGGCCTACAGCATGCTGCAGATGGTGCGGGAGCAGGTGCTGCAGGAAAGCATGGGCG
GGGATGACATCCTCCTGGCCTGCAACAACCTCATCGACCTTGATGCTGATGAGCTGATCT
CTGCCGCCTGCGTGGTTTATGCTGAGCTCATCCAGAAGGATGTTCTCAGACATTAAGG
ATTTCTTCTCTGAGGACACAAAGCCCGCAGTGGACTGATGCCTTCGATGGGCAGGATG
AAGGCCAGGGGCACTGGAGTGGGGAGTAGATAAAACAGCTGCAATATAAACAGTCCTCT
GGAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
```



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_153356 unedited GTTTAGGATTTTGAATACGACTTACTATAGGCGGACCGCGATTGAGATCTGGTACCGGT CCGGAATCCCGGGATCAACCCATCTCCGAAAGGATTAAGCATCACTAGGGCTCCAAGTG AGTTCTGATCAGAGGCTGTTCCGGAAGACAGCAGGGGCCATGACCACCCTCTCTCTGAAA ACAGCCTCTCTGCCAGACAGTCAGCCTCCTTTCATCCTGGTGAAGAGAAAACCCATTG ACAAGACAGAATGGACAGCTTCTTTGATGAGAGTGGCCACTTGGCCAAATCACGGGACT TCATTTGTGTTAACATCCTGAAAGGGGTCTGCACCCCTTCGTGAGGACTGAAGCCTGGA AATTCCTCACGGCTACTTCTCATGGCAGAGTCCCAGGATGAGCGGCTCACGGTGGACA GCATGAGGAGGAAGAACAAGGCCTTATGCCAAATGTATGAGAAGATTAGCCCTTC TGGAAAACCTGCACCGGAACCTCACAGAGACTCGCAATAACATTGCACGTGACATTGAGA ANATCTATGACAAAGATCCCCTGNGCAACGTCCTCATCGACAAGAAGAGGCTAGAGAAGA TCTTTGCTCTGAGTTACGTCTGCAACACGCANGCAGAGTACCAGCAGGGCTTCCATGAGA TGATGATGCTCTCCAGCTGATGGTGGAGCACGACCACGAGACCTTCTGGGCTTTTCAGT TCTTCCTGCAGAAAACGGACACAGCTGTGTCATCAACATTGGCGTGGCCANAACCTAGA CATGCTCAGCACCTGATCACTTNNCTGGACCCGTGTTTCTGAGCACCTAAAGGGAAGG GNTGCAGGGCTGTGCANTCCCTCTCCCTGGTNGTCTCTGGTTTCAGCGTGCCTTCA GTCCTCGATGATGTCGGGG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_153356
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_153356.1</a></u> , <u><a href="#">NP_699187.1</a></u>
<b>RefSeq Size:</b>	1256 bp
<b>RefSeq ORF:</b>	1011 bp
<b>Locus ID:</b>	161514
<b>UniProt ID:</b>	<u><a href="#">Q8IYX1</a></u>
<b>Cytogenetics:</b>	15q24.1

**Gene Summary:**

May act as a GTPase-activating protein for Rab family protein(s) (PubMed:19077034). May be involved in acrosome formation and cytoskeletal reorganization during spermiogenesis, possibly by regulating RAB3A activity (PubMed:21128978).[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).