

## Product datasheet for **RG237307**

### **TBC1D21 (NM\_001286434) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TBC1D21 (NM_001286434) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TBC1D21
Synonyms:	MgcRabGAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237307 representing NM_001286434. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGACCACCTCTCTCTGAAAACAGCCTCTCTGCCAGACAGTCAGCCTCCTTCATCCTGGGTCTGCAC
CCCTTCGTGAGGACTGAAGCCTGGAAATTCCTCACGGGCTACTTCTCATGGCAGAGTTCCCAGGATGAG
CGGCTCACGGTGGACAGCATGAGGAGGAAGAACAAGGCCTTATGCCAAATGTATGAGAAGATTCAG
CCCCTTCTGAAAACCTGCACCGGAACCTCACAGAGACTCGCAATAACATTGCACGTGACATT CAGAAA
ATCTATGACAAAGATCCCCTGGGCAACGTCCTCATCGACAAGAAGAGGCTAGAGAAGATCCTGCTCCTG
AGTTACGTCTGCAACACGCAGGCAGAGTACCAGCAGGGCTTCCATGAGATGATGCTCTTCCAGCTG
ATGGTGGAGCAGCACCACGAGACCTTCTGGCTTTTCCAGTTCTTCTGCAGAAAACGGAACACAGCTGT
GTCATCAACATTGGCGTGGCCAAGAACC TAGACATGCTCAGCACCTGATCACCTTCTGGACCCCGTG
TTTGCTGAGCACCTAAAAGGGAAGGGTGCAGGGGCTGTGCAGTCCCTTCTCCCCTGGTTCTGCTTCTGC
TTCAGCGTGCCTTCAAGTCTTTCGATGATGTCTGGAGGCTCTGGGAGGTTCTGCTGACGGGGAAGCCC
TGCAGGAACCTCCAGGTGCTGGTGGCTACAGCATGCTGCAGATGGTGCAGGAGCAGGTGCTGCAGGAA
AGCATGGGCGGGGATGACATCCTCCTGGCCTGCAACAACCTCATCGACCTTGATGCTGATGAGCTGATC
TCTGCCGCTGCGTGGTTTATGCTGAGCTCATCCAGAAGGATGTTCTCAGACATTAAGGATTTCTTC
CTC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG237307  
 Blue=ORF Red=Cloning site Green=Tag(s)

MTTLPENSL SARQSASFILGLHPFVRTEAWKFLTGYSWQSSQDERLTVDSMRRKNYKALCQMYEKIQ  
 PLEENLHRNFTE TRNNIARDIQKIYDKDPLGNVLIDKKRLEKILLLSYVCNTQAEYQQGFHEMMLFQL  
 MVEHDHETFWL FQFFLQKTEHSCVINIGVAKNLDMLSTLITFLDPVFAEHLKGGAGAVQSLFPWFCFC  
 FQRAFKSFDDVWRLWEVLLTGKPCRNFQVLVAYSMLQMVREQVLQESMGDDILLACNNLIDLDADELI  
 SAACVVYAE LIQKDVVPQTLKDFFL  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001286434

**ORF Size:** 900 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).

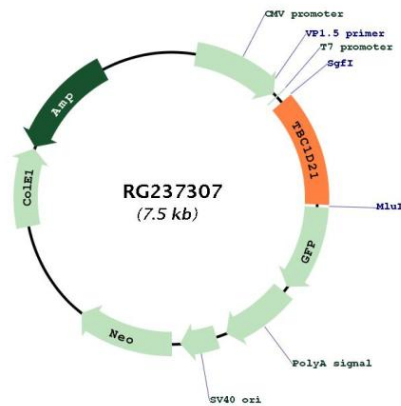
**RefSeq:** [NM\\_001286434.2](#)

**RefSeq Size:** 1151 bp

**RefSeq ORF:** 903 bp

Locus ID:	161514
UniProt ID:	<a href="#">Q8IYX1</a>
Cytogenetics:	15q24.1
MW:	35.4 kDa
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]

## Product images:



Circular map for RG237307