

Product datasheet for **RG206651**

TBC1D21 (NM_153356) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TBC1D21 (NM_153356) 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: >RG206651 representing NM_153356
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACCACCTCTCTCCTGAAAACAGCCTCTCTGCCAGACAGTCAGCCTCCTTCATCCTGGTGAAGAGAA
 AACCAACCATTGACAAGACAGAATGGGACAGCTTCTTTGATGAGAGTGGCACTTGGCAAATCACGGGA
 CTTCAATTTGTGTTAACATCCTGGAAAGGGTCTGCACCCCTTCGTGAGGACTGAAGCCTGGAATTCCTC
 ACGGGCTACTTCTCATGGCAGAGTCCCAGGATGAGCGGCTCACGGTGGACAGCATGAGGAGGAAGAACT
 ACAAGGCCTTATGCCAAATGTATGAGAAGATTCAGCCCTTCTGGAAAACCTGCACCGGAACTTCACAGA
 GACTCGCAATAACATTGCACGTGACATTCAGAAAATCTATGACAAAGATCCCCTGGGCAACGTCCTCATC
 GACAAGAAGAGGCTAGAGAAGATCTTGCTCCTGAGTTACGCTCTGCAACACGCAGGACAGTACCAGCAGG
 GCTTCCATGAGATGATGATGCTCTTCCAGCTGATGGTGGAGCACGACCACGAGACCTTCTGGCTTTTCCA
 GTTCTTCTGCAGAAAACGGAACACAGCTGTGTCAACATTGGCGTGGCCAAGAACCTAGACATGCTC
 AGCACCTGATCACCTTCTGGACCCCGTGTGCTGAGCACCTAAAAGGGAAGGGTGCAGGGGCTGTGC
 AGTCCCTCTCCCTGGTTCTGCTTCTGCTTCCAGCGTGCCTCAAGTCTTCGATGATGCTGGAGGCT
 CTGGGAGGTTCTGCTGACGGGGAAGCCCTGCAGGAACTCCAGGTGCTGGTGGCTACAGCATGCTGCAG
 ATGGTGCGGGAGCAGGTGCTGCAGGAAAGCATGGGCGGGGATGACATCCTGGCCTGCAACAACCTCA
 TCGACCTTGATGCTGATGAGCTGATCTCTGCCCGCTGCGTGGTTATGCTGAGCTCATCCAGAAGGATGT
 TCCTCAGACATTAAGGATTTCTCCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG206651 representing NM_153356
 Red=Cloning site Green=Tags(s)

MTTLPENSL SARQSASFILV KRKPPIDKTEWDSFFDESGLAKSRDFICVNILERGLHPFVRTEAWKFL
 TGYFSWQSSQDERLTVDSMRKKNYKALCQMYEKIQPLENLHRNFTETRNNIARDIQKIYDKDPLGNVLI
 DKKRLEKILLLSYVCNTQAEYQQGFHEMMLFQLMVEHDHETFWLFQFFLQKTEHSCVINIGVAKNLDML
 STLIITFLDPVFAEHLKGGAGAVQSLFPWF CFCFQRAFKSFDDVWRLWEVLLTGKPCRNFQVLVAYSMLQ
 MVREQVLQESMGDDILLACNNLIDLDADELISAACVVYAELIQKDVPQTLKDFFL

TRTRPLE - GFP Tag - V

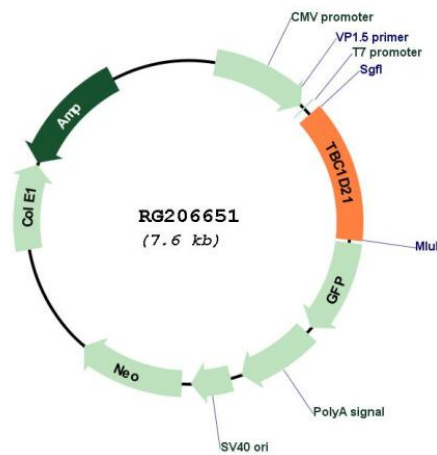
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_153356

ORF Size: 1008 bp

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|-------------------------------|---|
| 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: | <ol style="list-style-type: none">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_153356.1 , NP_699187.1 |
| RefSeq Size: | 1256 bp |
| RefSeq ORF: | 1011 bp |
| Locus ID: | 161514 |
| UniProt ID: | Q8IYX1 |
| Cytogenetics: | 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] |