

Product datasheet for **RC237307**

TBC1D21 (NM_001286434) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TBC1D21 (NM_001286434) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: TBC1D21
Synonyms: MgcRabGAP
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC237307 representing NM_001286434
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGACCACCTCTCCTGAAAACAGCCTCTCTGCCAGACAGTCAGCCTCCTTCATCCTGGGTCTGCACC
CCTTCGTGAGGACTGAAGCCTGAAAATTCCTCACGGGCTACTTCTCATGGCAGAGTCCCAGGATGAGCG
GCTCACGGTGGACAGCATGAGGAGGAAGAACTACAAGGCCTTATGCCAAATGTATGAGAAGATTCAGCCC
TTCTGAAAACCTGCACCGAACTTCACAGAGACTCGCAATAACATTGCACGTGACATTAGAAAATCT
ATGACAAAAGATCCCCTGGCAACGTCCTCATCGACAAGAAGAGGCTAGAGAAGATCCTGCTCCTGAGTTA
CGTCTGCAACACGCAGGCAGAGTACCAGCAGGGCTTCCATGAGATGATGATGCTCTTCCAGCTGATGGTG
GAGCAGACCACGAGACCTTCTGGCTTTTCCAGTCTTCTCCTGCAGAAAACGGAACACAGCTGTGTCATCA
ACATTGGCGTGGCCAAGAACCTAGACATGCTCAGCACCTGATCACCTTCTGGACCCCGTGTGGCTGA
GCACCTAAAAGGGAAGGGTGCAGGGGCTGTGCAGTCCCTTCCCTGGTCTGCTTCTGCTTCCAGCGT
GCCTTCAAGTCTTCGATGATGTCTGGAGGCTCTGGGAGGTTCTGCTGACGGGGAAGCCCTGCAGGAAT
TCCAGGTGCTGGTGGCCTACAGCATGCTGCAGATGGTGCAGGAGCAGGTGCTGCAGAAAAGCATGGGCGG
GGATGACATCCTCCTGGCCTGCAACAACCTCATCGACCTTGATGCTGATGAGCTGATCTCTGCCCGCTGC
GTGGTTTATGCTGAGCTCATCCAGAAGGATGTTCTCCTCAGACATTAAGGATTTCTTCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence: >RC237307 representing NM_001286434
Red=Cloning site Green=Tags(s)

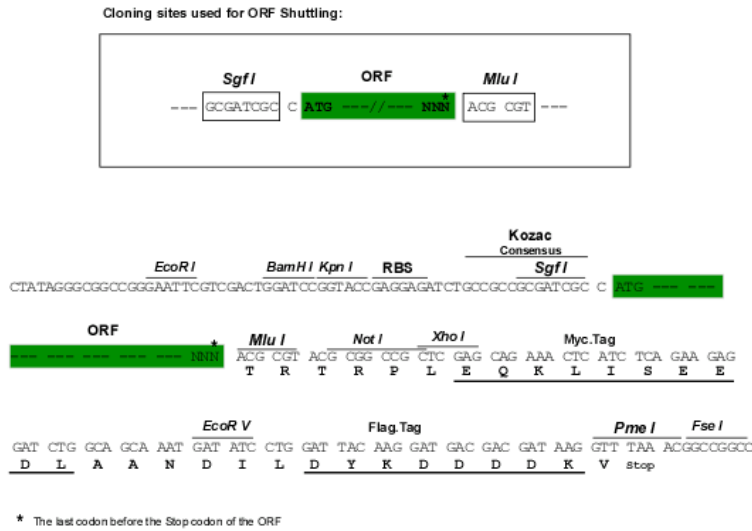
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 EHDHETFWLFQFFLQKTEHSCVINIGVAKNLDMLSTLITFLDPVFAEHLKGGAGAVQSLFPWFCFCFQR
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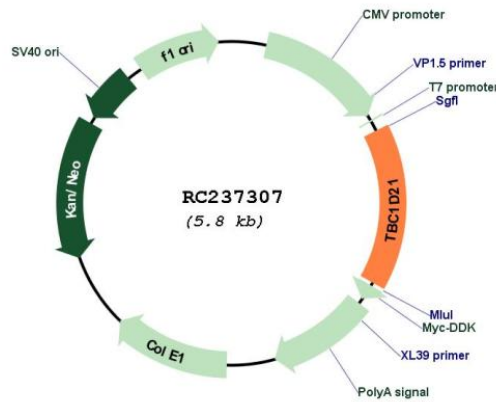
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



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).
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_001286434.2
RefSeq Size:	1151 bp
RefSeq ORF:	903 bp
Locus ID:	161514
UniProt ID:	Q8IYX1
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]