

## Product datasheet for MR204999

### Tbc1d21 (NM\_028854) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tbc1d21 (NM_028854) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tbc1d21
Synonyms:	1700095K08Rik; MgcRabGAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204999 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACTACCCTTTCTCCAGAAAACAGCCTCTCTGCCAGGCGATCAGCCACCTTCATTCTGGAGAAGAGAA  
ACCCCCCATTGACAAGGCAGAAATGGGACAGCTTCTTCGATGAGAATGGTCACTTGGCCAAGTCACGAGA  
CTTCATTTGCATTAACATCCTGGAAGGGGACTACACCCCTTCGTGAGGACAGAAGCCTGGAAGTTCCTC  
ACAGGCTACTACTCGTGGCAGAGTTCACGGGATGAGCGGCTCATGGTGGACAGCAACAGGAGGAGAACT  
ATAACTCCTTGTGCCAGATGTATGAGAAAATCCAGCCCTGCTGGAAAATTACATGGGAACTTCACAGA  
GACTCGGAACAACATCGGTACGACATCCAGAGGCTGTATGATAAAGATCCCCTGGCAATGTGCTTATA  
GACAAGAAGAAATTTGGAGAAGACCTGCTGCTGAGTTATGTCTGCAACACAAAGGCTGAGTACCAGCGAG  
GCTTCCATGAGATGGTGTGCTTTTCCAGCTGATGGTGGAGCACGACCATGAGACCTTCTGGCTCTTCCA  
GTTCTTCTGCAGAAAACAGAGCACAGCTGTGTCAACATCGGTGTAGGCAAGAATCTGGACATGCTC  
AACAGCCTGATCACTCTACTGGACCCTGAATTTGCTGAACACCTCAAAGGGAAGGGCTCAGGGGCTGTGC  
AGTCCCTCTTCCCGTGGTTCTGCCTTTGCTTCCAGCGTGCCTTCAAACCTTCGATGATGTCTGGAGGCT  
CTGGGAGGTCTGCTGACGGGGAAGCCCTGCAGAACTTCCAGGTGCTGGTGGCTACAGCATGCTACAG  
ATGGTGCGGAGCAGGCGCTTCTGGAGTGTATGAGCGGTGACGCCATTCTCATGGCTGCAACAACCTTA  
TCGACCTTGATGCGGATGAGCTGATCTCTGCTGCCTGCTGGTTTATTCTGAGCTCATGAAAAGGAGGT  
CCCTCAGCCATTAAGGAGTTCCTTCTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

**Protein Sequence:** >MR204999 protein sequence  
Red=Cloning site Green=Tags(s)

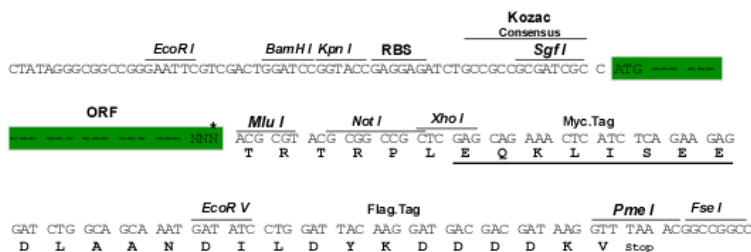
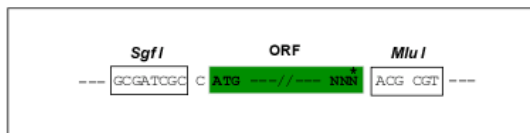
MTTLPENSLSARRSATFILEKRNPPIDKAEWDSFFDENGHLAKSRDFICINILERGLHPFVRTEAWKFL  
 TGYYSWQSSRDERLMVDSNRRRNYSNLQMYEKIQPLENLHGNFTETRNNAIYDIQRLYDKDPLGNVLI  
 DKKKLEKTLTLLSYVCNTKAEYQRFHEMVMFLQMLMVEHDHETFWLFQFFLQKTEHSCVINIGVGKNDML  
 NSLITLLDPEFAEHLKGGKSGAVQSLFPWFCLCFQRAFKTFDDVWRLWEVLLTGKPCRNFQVLVAYSMLQ  
 MVREQALLECMSGDAILMACNNLIDLDADELISAACVVYSELMQKEVPQPLKEFLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_028854

**ORF Size:** 1011 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\\_028854.4](#)

**RefSeq Size:** 1097 bp

**RefSeq ORF:** 1011 bp

**Locus ID:** 74286

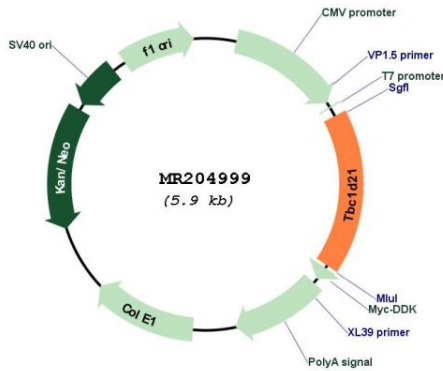
**UniProt ID:** [Q9D9D3](#)

**Cytogenetics:** 9 B

**MW:** 39.3 kDa

**Gene Summary:** May act as a GTPase-activating protein for Rab family protein(s). May be involved in acrosome formation and cytoskeletal reorganization during spermiogenesis, possibly by regulating RAB3A activity.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR204999