

Product datasheet for **MG204999**

Tbc1d21 (NM_028854) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tbc1d21 (NM_028854) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Tbc1d21
Synonyms: 1700095K08Rik; MgcRabGAP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG204999 representing NM_028854
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGATCGCC

ATGACTACCCTTTCTCCAGAAAACAGCCTCTCTGCCAGGCGATCAGCCACCTTCATTCTGGAGAAGAGAA
 ACCCCCCATTGACAAGGCAGAAATGGGACAGCTTCTTCGATGAGAATGGTCACTTGGCCAAGTCACGAGA
 CTTTCAATTTGCATTAACATCCTGGAAAGGGGACTACACCCCTTCGTGAGGACAGAAGCCTGGAAAGTTCCTC
 ACAGGCTACTACTCGTGGCAGAGTTCACGGGATGAGCGGCTCATGGTGGACAGCAACAGGAGGAGGA
 ATAACCTTTGTGCCAGATGTATGAGAAAATCCAGCCCTGCTGGAAAATTACATGGGAACTTCACAGA
 GACTCGGAACAACATCGGTACGACATCCAGAGGCTGTATGATAAAGATCCCCTGGCAATGTGCTTATA
 GACAAGAAGAAATTTGGAGAAGACCTGCTGCTGAGTTATGCTGCAACACAAAGGCTGAGTACCAGCGAG
 GCTTCCATGAGATGGTATGCTTTTCCAGCTGATGGTGGAGCACGACCATGAGACCTTCTGGCTCTTCCA
 GTTCTTCTGCAGAAAACAGAGCACAGCTGTGTCAACATCGGTGTAGGCAAGAATCTGGACATGCTC
 AACAGCCTGATCACTCTACTGGACCCTGAATTTGCTGAACACCTCAAAGGGAAGGGCTCAGGGGCTGTGC
 AGTCCCTTCCCCTGGTTCCTGCCTTTGCTTCCAGCGTGCCTTCAAACCTTCGATGATGTCTGGAGGCT
 CTGGGAGGTCCTGCTGACGGGGAAGCCCTGCAGAACTTCCAGGTGCTGGTGGCCTACAGCATGCTACAG
 ATGGTGCGGAGCAGGCGCTTCTGGAGTGTATGAGCGGTGACGCCATTCTCATGGCTGCAACAACCTTA
 TCGACCTTGATGCGGATGAGCTGATCTCTGCTGCCTGCTGGTTATTCTGAGCTCATGAAAAGGAGGT
 CCCTCAGCCATTAAGGAGTTCCTTCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204999 representing NM_028854
 Red=Cloning site Green=Tags(s)

MTTLPENSLSARRSATFILEKRNPPIDKAEWDSFFDENGHLAKSRDFICINILERGLHPFVRTEAWKFL
 TGYYSWQSSRDERLMVDSNRRRNYSNLQMYEKIQPLENLHGNFTETRNNAIYDIQRLYDKDPLGNVLI
 DKKKLEKTLTLLSYVCNTKAEYQRGFHEMVMLFQLMVEHDHETFWLFQFFLQKTEHSCVINIGVGKNDML
 NSLITLLDPEFAEHLKGGKSGAVQSLFPWFCLCFQRAFKTFDDVWRLWEVLLTGKPCRNFQYLVAYSMLQ
 MVREQALLECMSGDAILMACNNLIDLDADELISAACVVYSELMQKEVPQPLKEFLL

TRTRPLE - GFP Tag - V

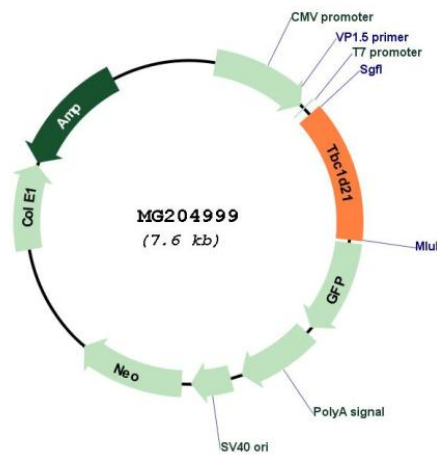
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_028854

ORF Size: 1008 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_028854.4
RefSeq Size:	1295 bp
RefSeq ORF:	1011 bp
Locus ID:	74286
UniProt ID:	Q9D9D3
Cytogenetics:	9 B
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]