

Product datasheet for **MG202564**

Rab21 (NM_024454) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rab21 (NM_024454) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Rab21
Synonyms: 9630024B22
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG202564 representing NM_024454
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGCGGCCGGCGGGCGGGCGGGCGGGCGGGCGGGCGGGCGAGCCTACTCCTTCAAGGTGGTGCTGCTCG
GGGAAGGCTGCGTGGGAAGACGTCGCTGGTGTGCGCTACTGCGAGAACAAGTTCAACGACAAGCACAT
CACCACCCTGCAGGCATCTTTCTTAACAAAGAAGTAAATATTGGTGGAAAAAGAGTAAACCTTGCCATA
TGGGACACAGCAGGTCAGGAGAGATTCCACGCACTGGGCCAATTTACTACCGAGATTCGAACGGAGCTA
TTTTAGTTTATGATGTAACGGATGAAGATTCCTTTCAGAAGGTAAAAACTGGGTCAAAGAATTACGAAA
AATGTTGGAAAATGAGATCTGTTTGTGTATAGTTGGTAATAAAATAGACTTGGAAAAGGAGAGGCACGTC
TCTATTCAAGAAGCAGAATCGTATGCAGAGTCTGTGGGAGCCAAGCATTACCATACTTCCGCTAAACAGA
ACAAAGGCATTGAGGAGCTCTTCTCGACCTTTGTAAAAGAATGATAGAGACAGCCAGGTGGATGAGAG
AGCAAAAGGCAATGGCTCGAGTCAAGCCGGGCTGCAAGGCGAGGTGTGCAGATCATCGACGACGAGCCT
CAAGCTCAGAGCAGCGGAGGGTGTCTCCTCCGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG202564 representing NM_024454
 Red=Cloning site Green=Tags(s)

MAAAGGGAAAAAGRAYSFKVVLGEGCVGKTSVLRYCENKFNDKHITTLQASFLTKKLNIGGKRVNLAI
 WDTAGQERFHALGPIYYRDSNGAILVYDVTDEDSFQVKVNWVKELRKMLGNEICLCIVGNKIDLEKERHV
 SIQEAESYAESVGAKHYHTSAKQNKGIEELFLDLCKRMIETAQVDERAKGNGSSQAGAARRGVQIIDDEP
 QAQSSGGCCSSG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_024454

ORF Size: 666 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_024454.1](#), [NP_077774.1](#)

RefSeq Size: 1856 bp

RefSeq ORF: 669 bp

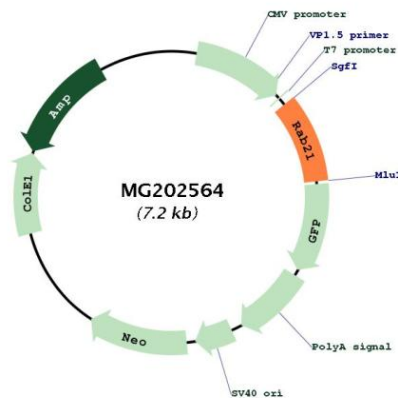
Locus ID: 216344

UniProt ID: [P35282](#)

Cytogenetics: 10 D2

Gene Summary: Regulates integrin internalization and recycling, but does not influence the traffic of endosomally translocated receptors in general (PubMed:16754960). As a result, may regulate cell adhesion and migration (PubMed:16754960). During the mitosis of adherent cells, controls the endosomal trafficking of integrins which is required for the successful completion of cytokinesis (PubMed:18804435). Involved in neurite growth (By similarity). Following SBF2/MTMT13-mediated activation in response to starvation-induced autophagy, binds to and regulates SNARE protein VAMP8 endolysosomal transport required for SNARE-mediated autophagosome-lysosome fusion (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG202564