

Product datasheet for **MG220587**

Rab34 (NM_033475) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rab34 (NM_033475) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Rab34
Synonyms: AI326479; Narr; Rah; Rah1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG220587 representing NM_033475
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACATTCTGGCGCCCGTGCGGAGGGACCGCTCCTGGCGGAGCTGCCCCAGTGCCTGAAGAAAGAGG
CCGCTTTGCACGTGCGCAAAGACTTCCACCCCGCGTCACTTGCCTGCCAGGAGCACCAGGACAGGCAC
CGTGGGATTTAAGATATCCAAGTTCATCGTTGTGGGAGACCTATCTGTGGGAAGACCTGTCTCATAAT
AGGTTCTGCAAAGACACCTTCGATAAGAATTACAAGGCTACCATCGGAGTGGATTTGAGATGGAACGAT
TTGAAGTCTTGGGTGTCCCTTCAGTCTCCAACCTTGGGACACGGCTGGTCAGGAAAGTTCAAGTGCAT
TGCTTCCACTACTACCGTGGAGCTCAAGCCATCATCATTGTCTTCAACCTGAATGACGTGGCATCCCTG
GAACACACCAAGCAGTGGCTCACTGATGCCCTCAAGGAGAACGACCTTCCAACGTGCTCCTCTTCTTG
TGGTTCCAAGAAGGACCTGAGTACTCCTGCTCAGTATTCCTAATGGAGAAGGATGCCCTCAAGGTGGC
CCAAGAGATTAAGGCCGAGTACTGGCGGTGTCCTCCCTCACTGGTGAGAATGTCCGGGAATTTCTTCTC
CGTGTGGCAGCACTAACCTTTGAGGCAATGTCCTGGCGGAGCTGGAGAAATCCGGGGCTCGGCACATTG
CAGATGTTGTTTCGATCAACAGCGATGACAAAAACCTGTACCTAACTGCCAGCAAGAAAAAGGCCACATG
TTGTCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG220587 representing NM_033475
 Red=Cloning site Green=Tags(s)

MNILAPVRRDRVLAELPQCLKKEAALHVRKDFHPRVTCACQEHRGTGVGFKISKVIVVGDLSVGKTCLIN
 RFCKDTDFDKNYKATIGVDFEMERFEVLGVPFSLQLWDTAGQERFKCIASYRGAQAIIVFNLNDVASL
 EHTKQWLTDAKENDPSNVLLFLVGSKKDLSTPAQYSLMEKDALKVAQEIKAEYAVVSSLTGENVREFFF
 RVAALTFEANVLAELEKSGARHIADVVRINSDDKNLYLTASKKKATCCP

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_033475

ORF Size: 777 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_033475.3](#), [NP_258436.2](#)

RefSeq Size: 1721 bp

RefSeq ORF: 780 bp

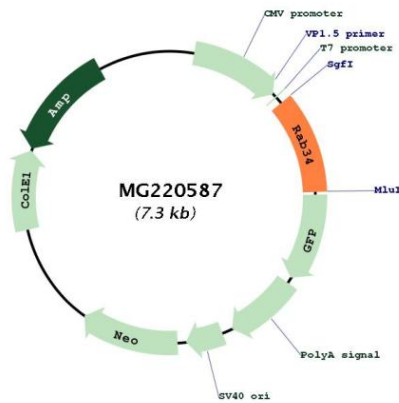
Locus ID: 19376

UniProt ID: [Q64008](#)

Cytogenetics: 11 46.74 cM

Gene Summary: Protein transport. Plays a role in the maturation of phagosomes that engulf pathogens, such as *S.aureus* and *Mycobacterium*. Plays a role in the fusion of phagosomes with lysosomes (By similarity). Involved in the redistribution of lysosomes to the peri-Golgi region (PubMed:12475955). Acts also as a positive regulator of hedgehog signaling and regulates ciliary function (PubMed:29290584).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG220587