

Product datasheet for **MG216803**

Rab43 (NM_001039394) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rab43 (NM_001039394) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Rab43
Synonyms: 1810048P08Rik; 2500004H21Rik; AW490415
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG216803 representing NM_001039394
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGGCCCTGGCCGGGAGATCAGGACGAACACTACGATTTCTGTTCAGCTGGTGTAGTGGGCG
ACGCGAGCGTGGCAAGACGTGCGTGGTGCAGCGCTTCAAGACCGGCGCCTTCTCGGCGCGTCAGGGCAG
CACCATCGGTGTCGACTTACCATGAAGACGCTGGAGATCCAGGGCAAGCGGGTCAAGTTACAGATTTGG
GACACAGCTGGCCAGGAGCGGTTCCGGACCATACCCAGAGCTACTACCGAAGTGCCAATGGGCTATCC
TTGCGTACGACATCAGCAAGAGGAGCACCTTCTGTGTCAGTGCCTCACTGGATCGAGGATGTGAGGAAGTA
CGCGGGTTCCAACATCGTGCAGCTGCTGATTGGGAACAAGTCAAGACCTTCCCGATTTCGGGAGGTCCCA
TTGGCGGAGGCACAGAGCCTGGCTGAGCACTATGACATCCTCTGTGCCATCGAGACCTCCGCAAAGGACT
CCAGCAATGTGGAGGAGGCTTACCAGAGTGGCCACGGAGCTCATCATGAGGCACGGAGGTCCCATGTT
CAGTGAGAAGAACACAGACCACATCCAGCTGGACAGCAAGGACATTGCGGAGAGCTGGGGCTGTGGGTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG216803 representing NM_001039394
Red=Cloning site Green=Tags(s)

MAGPGPGDQDEHYDFLFLKLVVGDASVGKTCVVQRFKTGAFSARQGSTIGVDFTMKLEIQGKRVKLIW
DTAGQERFRTITQSYRSANGAILAYDISKRSTFLSVPWHIEDVRKYAGSNIVQLLIGNKSDLADFEVFP
LAEQSLAEHYDILCAIETSAKDNSSNVEEAFTRVATELIMRHGGPMFSEKNTDHIQLDSKDIAESWGCGC

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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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_001039394.1](#), [NP_001034483.1](#)

RefSeq Size: 4605 bp

RefSeq ORF: 633 bp

Locus ID: 69834

UniProt ID: [Q8CG50](#)

Cytogenetics: 6 D1

Gene Summary: The small GTPases Rab are key regulators of intracellular membrane trafficking, from the formation of transport vesicles to their fusion with membranes. Rabs cycle between an inactive GDP-bound form and an active GTP-bound form that is able to recruit to membranes different set of downstream effectors directly responsible for vesicle formation, movement, tethering and fusion. The low intrinsic GTPase activity of RAB43 is activated by USP6NL. Involved in retrograde transport from the endocytic pathway to the Golgi apparatus. Involved in the transport of Shiga toxin from early and recycling endosomes to the trans-Golgi network. Required for the structural integrity of the Golgi complex. Plays a role in the maturation of phagosomes that engulf pathogens, such as S.aureus and Mycobacterium. [UniProtKB/Swiss-Prot Function]