

Product datasheet for **RC209159**

RAB43 (NM_198490) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAB43 (NM_198490) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RAB43
Synonyms:	RAB11B; RAB41
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC209159 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGGGCCGGGCCAGGCCCGGGGACCCGGACGAGCAGTACGATTCCTGTTCAGCTGGTGTGG
TGGGCGACGCAAGCGTGGGCAAGACGTGCGTGGTGCAGCGCTTCAAGACCGGCGCCTTCTCGAGCGCCA
GGGAAGCACCATCGGCGTCGACTTCACCATGAAGACGCTGGAGATCCAGGCAAGCGGTCAAGCTGCAG
ATCTGGGACACGGCCGGCCAGGAGCGGTCCGCACCATCACCCAGAGCTACTACCGCAGTGCCAATGGG
CCATCCTTGCCCTACGACATCACCAAGAGGAGCTCCTTCTGTGCGGTGCCCTACTGGATTGAGGATGTGAG
GAAGTATGCGGGCTCCAACATTGTGCAGCTGTGATCGGGAACAAGTCAAGCTCAGCGAGCTTCGGGAG
GTCTCCTTGCTGAGGCACAGAGCCTGGCTGAGCACTATGACATCCTGTGTGCCATTGAGACGTCTGCCA
AGGACTCGAGCAACGTGGAGGAGGCCTTCTGAGGGTGGCCACGGAGCTCATCATGCGGCACGGGGGCC
CTTGTTACGCGAGAAGAGCCCCGACCACATCCAGCTGAACAGCAAGGACATCGGAGAAGGCTGGGCTGC
GGGTGC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC209159 protein sequence
 Red=Cloning site Green=Tags(s)

MAGPGPGPDPDEQYDFLFKLVLVGDASVGKTCVVQRFKTGAFSERQGSTIGVDFTMKTLEIQGKRVKIQ
 IWDTAGQERFRTITQSYRSANGAILAYDITKRSSFSLVPHWIEDVRKYAGSNIVQLLIGNKSDLSELRE
 VSLAEAQSLAEHYDILCAIETSAKDSSNVEEAFLRVATELIMRHGGPLFSEKSPDHIQLNSKDIGEGWGC
 GC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6556_b03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_198490

ORF Size: 636 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_198490.3](#)

RefSeq Size: 4498 bp

RefSeq ORF: 639 bp

Locus ID: 339122

UniProt ID: [Q86YS6](#)

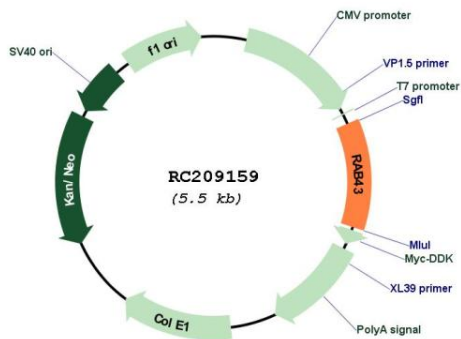
Cytogenetics: 3q21.3

Protein Families: Druggable Genome

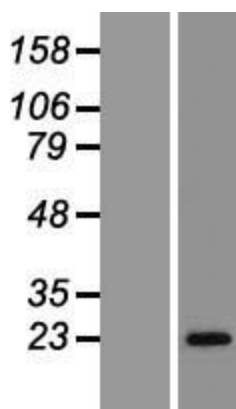
MW: 23.3 kDa

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 M.tuberculosis. [UniProtKB/Swiss-Prot Function]

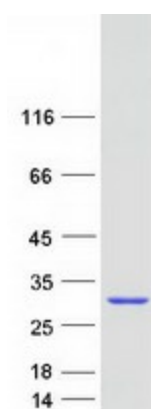
Product images:



Circular map for RC209159



Western blot validation of overexpression lysate (Cat# [LY404923]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209159 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RAB43 protein (Cat# [TP309159]). The protein was produced from HEK293T cells transfected with RAB43 cDNA clone (Cat# RC209159) using MegaTran 2.0 (Cat# [TT210002]).