

Product datasheet for **RC207062**

RAB39 (RAB39A) (NM_017516) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAB39 (RAB39A) (NM_017516) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RAB39
Synonyms:	RAB39
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC207062 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGACCATCTGGATCTACCAGTTCCGCCTCATCGTGATCGGGGACTCCACCGTGGGCAAGTCTGCC
TCCTGCACCGCTTCAACCAGGGCCGCTTCCCCGGGCTGCGCTCCCCGCCTGCGACCCACCGTCGGCGT
GGACTTCTTCTCCCGCTGCTGGAGATCGAGCCGGGCAAGAGGATCAAGCTACAGCTCTGGGACACGGCG
GGACAGGAGCGGTTCAGATCAATAACCCGATCTTATTACCGCAACTCAGTTGGTGGATTTTATGATTTG
ACATTACTAACCGACGATCTTTTGAACATGTGAAAGATTGGCTAGAAGAAGCAAAAATGTATGTACAGCC
ATTTCCGATTGTATTTCTGCTAGTGGGACATAAATGTGATTTAGCTTACACAGTCAAGTTACAAGGGAA
GAAGCTGAAAACTGTCAGCAGACTGTGGAATGAAGTATATAGAAACCTCAGCAAAGGATGCTACAAATG
TTGAAGAATCCTTCAAACTCTTGACGAGAGACATATGAACTTATTAAGGGGAGAAATTTGTATTCA
GGATGGCTGGGAAGGGTTAAAAGTGGTTTTGTTCCAAACTACTGTGCATTCTTCTGAGGAAGCAGTAAAG
CCAGGAAAGAATGCTTCTGC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC207062 protein sequence
 Red=Cloning site Green=Tags(s)

METIWIYQFRLIVIGDSTVGKSCLLHRFTQGRFPGLRSPACDPTVGVDFFSRLLEIEPGKRIKLQLWDTA
 GQERFRSITRSYRNSVGGFLVFDITNRRSFEHVKDWLEEKMYVQPFRIVFLLVGHKCDLASQRQVTR
 EAEKLSADCGMKYIETSAKDATNVEESFTILTRDIYELIKKGEICIQDGEVKSQGFVPNTVHSSEAVK
 PRKECFC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6018_d11.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_017516

ORF Size: 651 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_017516.3](#)

RefSeq Size: 1845 bp

RefSeq ORF: 654 bp

Locus ID: 54734

UniProt ID: [Q14964](#)

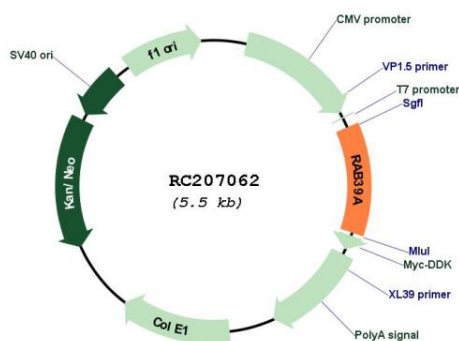
Cytogenetics: 11q22.3

Protein Families: Druggable Genome

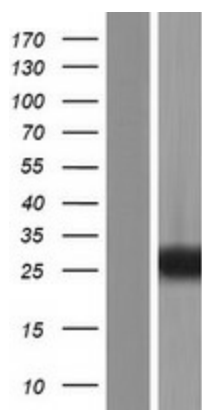
MW: 25 kDa

Gene Summary: Plays a role in the maturation and acidification of phagosomes that engulf pathogens, such as *S.aureus* and *M.tuberculosis*. Plays a role in vesicular trafficking. Plays a role in the fusion of phagosomes with lysosomes. Negatively regulates LPS-induced autophagosome formation in macrophages possibly by implicating PI3K (PubMed:24349490). May be involved in multiple neurite formation (By similarity).[UniProtKB/Swiss-Prot Function]

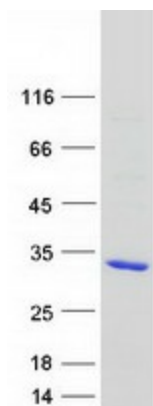
Product images:



Circular map for RC207062



Western blot validation of overexpression lysate (Cat# [LY402595]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207062 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RAB39A protein (Cat# [TP307062]). The protein was produced from HEK293T cells transfected with RAB39A cDNA clone (Cat# RC207062) using MegaTran 2.0 (Cat# [TT210002]).