

Product datasheet for **RC227999**

RAB34 (NM_001144942) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RAB34 (NM_001144942) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: RAB34
Synonyms: NARR; RAB39; RAH
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC227999 representing NM_001144942
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACATTCTGGCACCCGTGCGGAGGGATCGCGTCTGGCGGAGCTGCCCCAGTGCCTGAGGAAGGAGG
CCGCTTTGCACGGGCACAAAGACTTCCACCCCGCGTCACCTGCGCTGCCAGGAGCACC GGACAGGCAC
CGTGGGATTTAAGATCTCCAAGGTCATTGTGGTGGGGACCTGTCGGTGGGAAGACTTGCCTCATTAA
AGTTCTGCAAAGACACCTTTGATAAGAATTACAAGGCCACCATTGGAGTGGACTTCGAGATGGAACGAT
TTGAGGTGCTGGCATTCCCTTCAGTTTGCAGCTTTGGGATACCGCTGGCAGGAGAGGTTCAAATGCAT
TGCATCAACCTACTATAGAGGAGCTCAAGCCATCATCATTGTCTTCAACCTGAATGATGTGCATCTCTG
GAACATACCAAGCAGTGGCTGGCCGATGCCCTGAAGGAGAATGACCCCTCCAGTGTGCTTCTTCTCTTA
CCCCTGCTCAGTATGCGCTGATGGAGAAAGACGCCCTCCAGGTGGCCAGGAGATGAAGGCTGAGTACTG
GGCAGTCTCATCTCTCACTGGTGAAGATGTCGAGAAATCTTCTTCCGTGTGGCAGCACTGACCTTTGAG
GCCAATGTGCTGGCTGAGCTGGAGAAATCGGGGCTCGACGCATTGGGGATGTTGTCCGCATCAACAGTG
ATGACAGCAACCTCTACCTAACTGCCAGCAAGAAGAAGCCACATGTTGCCCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC227999 representing NM_001144942
Red=Cloning site Green=Tags(s)

MNILAPVRRDRVLAELPQCLRKEAALHGKDFHPRVTCACQEHRTGTVGFKISKVIVVGDLSVGKTCLIN
 RFCKDTDFDKNYKATIGVDFEMERFEVLGIPFSLQLWDTAGQERFKCIASYRGAQAIIVFNLNDVASL
 EHTKQWLADALKENDPSSVLLFLTPAQYALMEKDALQVAQEMKAEYWAVSSLTGENVREFFFRVAALTFE
 ANVLAELEKSGARRIGDVVRINSDDSNLYLTASKKKPTCCP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1529_e09.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_001144942

ORF Size: 753 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_001144942.2](#)

RefSeq ORF: 756 bp

Locus ID: 83871

UniProt ID: [Q9BZG1](#)

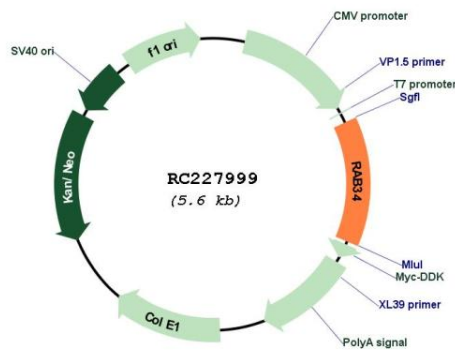
Cytogenetics: 17q11.2

Protein Families: Druggable Genome

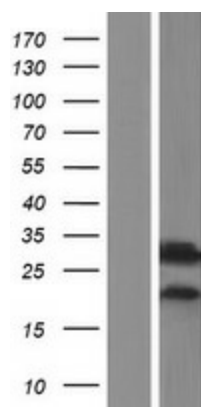
MW: 28 kDa

Gene Summary: This gene encodes a protein belonging to the RAB family of proteins, which are small GTPases involved in protein transport. This family member is a Golgi-bound member of the secretory pathway that is involved in the repositioning of lysosomes and the activation of macropinocytosis. Alternative splicing of this gene results in multiple transcript variants. An alternatively spliced transcript variant produces the nine-amino acid residue-repeats (NARR) protein, which is a functionally distinct nucleolar protein resulting from a different reading frame. [provided by RefSeq, Dec 2016]

Product images:



Circular map for RC227999



Western blot validation of overexpression lysate (Cat# [LY428594]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC227999 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).