

## Product datasheet for **RC227994**

### **RAB34 (NM\_001142625) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RAB34 (NM\_001142625) 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:** >RC227994 representing NM\_001142625  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGTCACCTCCCAGGCCTGGAGTTGAGGAGGGAAGCGCCGCTCTCCTGGGCCCTTCTCTCCCCCT  
 TCCCCCTCCCTGCTGGTTCCTGGCATCGCCAGATGCTGCGCAGCAGTCTCCGATCCCCATACCAATTC  
 GGCTGGGGCGCCCTGCAAGGCCGAGGCAGGATGAACATTCTGGCACCCGTGCGGAGGGATCGCGTCCTG  
 GCGGAGCTGCCCCAGTGCCTGAGGAAGGAGGCCGCTTTGCACGGGCACAAAGACTCCACCCCCGCGTCA  
 CCTGCGCCTGCCAGGAGCACCGGACAGGCACCGTGGGCAGATTTAAGATCTCAAGGTCAATTGTGGTGGG  
 GGACCTGTGCGTGGGAAGACTTGCCTCATTAATAGGTTCTGCAAAGACACCTTTGATAAGAATTACAAG  
 GCCACCATTGGAGTGGACTTCGAGATGGAACGATTTGAGGTGCTGGGCATTCCCTTCAGTTTGCAGCTTT  
 GGGATACCGCTGGGCAGGAGAGGTTCAAATGCATTGCATCAACCTACTATAGAGGAGCTCAAGCCATCAT  
 CATTGTCTTCAACCTGAATGATGTGGCATCTCTGGAACATACCAAGCAGTGGCTGGCCGATGCCCTGAAG  
 GAGAATGACCCTTCCAGTGTGCTTCTCTCCTTGTAGGTTCCAAGAAGGATCTGAGTACCCTGCTCAGT  
 ATGCGCTGATGGAGAAAGACGCCCTCCAGGTGGCCAGGAGATGAAGACTGTTTCAGAGACTGCCAGCCC  
 TAGGGCACTGTGCCACCCTCATTCTCCAGAGCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC227994 representing NM\_001142625  
 Red=Cloning site Green=Tags(s)

MSHLPGLELRREAPLLGPLLSPFPLPAGSWHRQMLRSSLRFPITNSAGAPCKAAGRMNILAPVRRDRVL  
 AELPQCLRKEAALHGKDFHPRVTCACQEHRTGTVGRFKISKVI VVGDLSVGKTCLINRFCKDTDFDKNYK  
 ATIGVDFEMERFEVLGIPFSLQLWDTAGQERFKCIASYRGAQAIIVFNLNDVASLEHTKQWLADALK  
 ENDPSSVLLFLVGSKKDLSTPAQYALMEKDALQVAQEMKTVQRLPSPRALCHPHSSRA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8048\\_c04.zip](https://cdn.origene.com/chromatograms/mk8048_c04.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\_001142625

**ORF Size:** 804 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\\_001142625.2](#), [NP\\_001136097.2](#)

**RefSeq ORF:** 807 bp

**Locus ID:** 83871

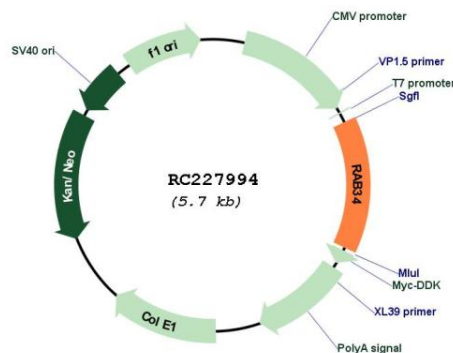
**Cytogenetics:** 17q11.2

**Protein Families:** Druggable Genome

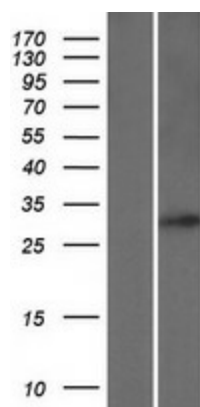
**MW:** 29.7 kDa

**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 RC227994



Western blot validation of overexpression lysate (Cat# [LY428219]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC227994 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).