

Product datasheet for **RG227987**

RAB34 (NM_001142624) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RAB34 (NM_001142624) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: RAB34
Synonyms: NARR; RAB39; RAH
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG227987 representing NM_001142624
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTCACCTCCAGGCCTGGAGTTGAGGAGGGAAGCGCCGCTCTCCTGGGCCCTTCTCTCCCTT
TCCCTCCCTGCTGGTTCCTGGCATCGCCAGATGCTGCGCAGCAGTCTCCGATCCCCATACCAATTC
GGCTGGGGCGCCCTGCAAGGCCGAGGCAGGATGAACATTCTGGCACCCGTGCGGAGGGATCGCGTCTG
GCGGAGCTGCCCCAGTGCCTGAGGAAGGAGGCCGCTTTGCACGGGCACAAAGACTTCCACCCCCGCTCA
CCTGCGCCTGCCAGGAGCACCGACAGGCACCGTGGGATTTAAGATCTCCAAGGTCAATTGTGGTGGGGGA
CCTGTCGGTGGGAAGACTTGCCTCATTAAATAGGTTCTGCAAAGACACCTTTGATAAGAATTACAAGGCC
ACCATTGGAGTGGACTTCGAGATGGAACGATTTGAGGTGCTGGGCATTCCCTTCAGTTTGACGCTTTGGG
ATACCGCTGGGCAGGAGAGGTTCAAATGCATTGCATCAACCTACTATAGAGGAGCTCAAGCCATCATCAT
TGTCTTCAACCTGAATGATGTGGCATCTCTGGAACATACCAAGCAGTGGCTGGCCGATGCCTGAAGGAG
AATGACCTTCCAGTGTGCTTCTCTTACCCTGCTCAGTATGCGCTGATGGAGAAAGACGCCCTCC
AGGTGGCCAGGAGATGAAGGCTGAGTACTGGCAGTCTCATCTCTCACTGGTGAAGATGTCGAGAATT
CTTCTCCGTGTGGCAGCACTGACCTTTGAGGCCAATGTGCTGGCTGAGCTGGAGAAATCGGGGGCTCGA
CGCATTGGGATGTTGTCCGCATCAACAGTGATGACAGCAACCTCTACCTAACTGCCAGCAAGAAGAAGC
CCACATGTTGCCCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG227987 representing NM_001142624
Red=Cloning site Green=Tags(s)

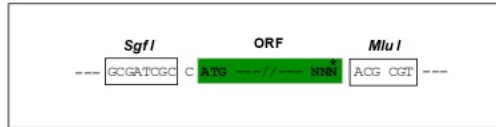
MSHLPGLELRREAPLLGPLLSPFPLPAGSWHRQMLRSSLRFPITNSAGAPCKAAGRMNLLAPVRRDRVL
 AELPQCLRKEAALHGKDFHPRVTCACQEHRTGTVGFKISKVIVVGDLSVGKTCLINRFCKDTFDKNYKA
 TIGVDFEMERFEVLGIPFSLQLWDTAGQERFKCIASTYYRGAQAIIVFNLNDVASLEHTKQWLADALKE
 NDPSSVLLFLTPAQYALMEKDALQVAQEMKAEYWAVSSLTGENVREFFRVAALTFEANVLAELEKSGAR
 RIGDVVRINSDDSNLYLTASKKKPTCCP

TRTRPLE - GFP Tag - V

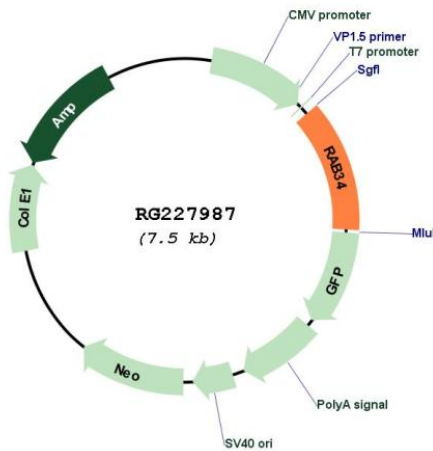
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001142624

ORF Size: 924 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:	<ol style="list-style-type: none">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_001142624.2 , NP_001136096.2
RefSeq Size:	1309 bp
RefSeq ORF:	927 bp
Locus ID:	83871
Cytogenetics:	17q11.2
Protein Families:	Druggable Genome
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]