

## Product datasheet for **RG227999**

### **RAB34 (NM\_001144942) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RAB34 (NM\_001144942) 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:** >RG227999 representing NM\_001144942  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAACATTCTGGCACCCGTGCGGAGGGATCGCGTCCTGGCGGAGCTGCCCCAGTGCCTGAGGAAGGAGG  
CCGCTTTGCACGGGCACAAAGACTTCCACCCCGCGTCACCTGCGCTGCCAGGAGCACC GGACAGGCAC  
CGTGGGATTTAAGATCTCCAAGGTCATTGTGGTGGGGACCTGTCGGTGGGAAGACTTGCCTCATTAA  
AGTTCTGCAAAGACACCTTTGATAAGAATTACAAGGCCACCATTGGAGTGGACTTCGAGATGGAACGAT  
TTGAGGTGCTGGCATTCCCTTCAGTTTGCAGCTTTGGGATACCGCTGGCAGGAGAGGTTCAAATGCAT  
TGCATCAACCTACTATAGAGGAGCTCAAGCCATCATCATTGTCTTCAACCTGAATGATGTGCATCTCTG  
GAACATACCAAGCAGTGGCTGGCCGATGCCCTGAAGGAGAATGACCCCTCCAGTGTGCTTCTCTCCTTA  
CCCCTGCTCAGTATGCGCTGATGGAGAAAGACGCCCTCCAGGTGGCCAGGAGATGAAGGCTGAGTACTG  
GGCAGTCTCATCTCTCACTGGTGAATGTCCGAGAATCTTCTCCGTGTGGCAGCACTGACCTTTGAG  
GCCAATGTGCTGGCTGAGCTGGAGAAATCGGGGCTCGACGCATTGGGGATGTTGTCCGCATCAACAGTG  
ATGACAGCAACCTCTACCTAACTGCCAGCAAGAAGAAGCCACATGTTGCCCA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >RG227999 representing NM\_001144942  
 Red=Cloning site Green=Tags(s)

MNIIAPVRRDRVLAELPQCLRKEAALHGKDFHPRVTCACQEHRTGTVGFKISKVIVVGDLSVGKTCLIN  
 RFCKDTFDKNYKATIGVDFEMERFEVLGIPFSLQLWDTAGQERFKCIASYRGAQAIIVFNLNDVASL  
 EHTKQWLADALKENDPSSVLLFLTPAQYALMEKDALQVAQEMKAEYWAVSSLTGENVREFFFRVAALTFE  
 ANVLAELEKSGARRIGDVVRINSDDSNLYLTASKKKPTCCP

TRTRPLE - GFP Tag - V

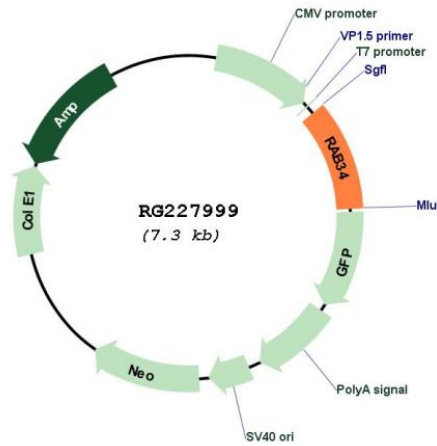
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_001144942

**ORF Size:** 753 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001144942.2</a>
<b>RefSeq Size:</b>	1761 bp
<b>RefSeq ORF:</b>	756 bp
<b>Locus ID:</b>	83871
<b>UniProt ID:</b>	<a href="#">Q9BZG1</a>
<b>Cytogenetics:</b>	17q11.2
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	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]