

## Product datasheet for **RG201932**

### **RAB35 (NM\_006861) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RAB35 (NM\_006861) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** RAB35  
**Synonyms:** H-ray; RAB1C; RAY  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG201932 representing NM\_006861  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCCCGGGACTACGACCACCTCTTCAAGCTGCTCATCATCGGCGACAGCGGTGTGGGCAAGAGCAGTT  
 TACTGTTGCGTTTTGCAGACAACACTTTCTCAGGCAGCTACATCACCACGATCGGAGTGGATTTCAAGT  
 CCGGACCGTGGAGATCAACGGGGAGAAGGTGAAGCTGCAGATCTGGGACACAGCGGGCAGGAGCGCTTC  
 CGCACCATCACCTCCACGTATTATCGGGGACCCACGGGGTCATTGTGGTTTACGACGTCACCAGTGCCG  
 AGTCCTTTGTCAACGTCAAGCGGTGGCTTCACGAAATCAACCAGAAGTGTGATGATGTGTGCCGAATATT  
 AGTGGGTAATAAGAATGACGACCCTGAGCGGAAGGTGGTGGAGACGGAAGATGCCTACAAATTCGCCGGG  
 CAGATGGGCATCCAGTTGTTGAGACCAGCGCCAAGGAGAATGTCAACGTGGAAGAGATGTTCAACTGCA  
 TCACGGAGCTGGTCTCCGAGCAAAGAAAGACAACCTGGCAAACAGCAGCAGCAACAACAGAACGATGT  
 GGTGAAGCTCACGAAGAACAGTAAACGAAAGAAACGCTGCTGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG201932 representing NM\_006861  
 Red=Cloning site Green=Tags(s)

MARDYDHLFKLLIIGDSGVGKSSLLLRFDNTFSGSYITIGVDFKIRTVEINGEKVKLQIWDTAGQERF  
 RTITSTYYRGTHGVIIVVDVTSAESFVNVKRWLHEINQNCDDVCRILVGNKNDDPERKVVETEDAYKFAG  
 QMGIQLFETSAKENVNVEEMFNCITELVLRRAKDNLAKQQQQQNDVVKLTKNKRKRRC

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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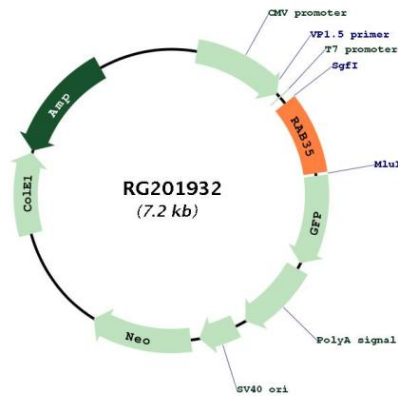
**Cloning Scheme:**


<b>ACCN:</b>	NM_006861
<b>ORF Size:</b>	603 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_006861.7</a>
<b>RefSeq Size:</b>	2931 bp
<b>RefSeq ORF:</b>	606 bp
<b>Locus ID:</b>	11021
<b>UniProt ID:</b>	<a href="#">Q15286</a>
<b>Cytogenetics:</b>	12q24.23

**Protein Families:** Druggable Genome

**Gene Summary:** The small GTPases Rab are key regulators of intracellular membrane trafficking, from the formation of transport vesicles to their fusion with membranes. Rabs cycle between an inactive GDP-bound form and an active GTP-bound form that is able to recruit to membranes different sets of downstream effectors directly responsible for vesicle formation, movement, tethering and fusion. That Rab is involved in the process of endocytosis and is an essential rate-limiting regulator of the fast recycling pathway back to the plasma membrane. During cytokinesis, required for the postfurling terminal steps, namely for intercellular bridge stability and abscission, possibly by controlling phosphatidylinositol 4,5-bis phosphate (PIP2) and SEPT2 localization at the intercellular bridge. May indirectly regulate neurite outgrowth. Together with TBC1D13 may be involved in regulation of insulin-induced glucose transporter SLC2A4/GLUT4 translocation to the plasma membrane in adipocytes.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RG201932