

Product datasheet for **SC115816**

RAB35 (NM_006861) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | RAB35 (NM_006861) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | RAB35 |
| Synonyms: | H-ray; RAB1C; RAY |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >OriGene ORF within SC115816 sequence for NM_006861 edited (data generated by NextGen Sequencing) ATGGCCCGGGACTACGACCACCTCTTCAAGCTGCTCATCATCGGGCAGCGGTGTGGGC AAGAGCAGTTTACTGTTGCGTTTTGCAGACAACACTTTCTCAGGCAGCTACATCACCACG ATCGGAGTGGATTTCAAGATCCGACCGTGGAGATCAACGGGGAGAAGGTGAAGCTGCAG ATCTGGGACACAGCGGGCAGGAGCGCTTCCGCACCATCACCTCCACGTATTATCGGGGG ACCCACGGGGTCATTGTGGTTTACGACGTCACCAGTGCCGAGTCCTTTGTCAACGTCAAG CGGTGGCTTCACGAAATCAACCAGAACTGTGATGATGTGTGCCGAATATTAGTGGGTAAT AAGAATGACGACCCTGAGCGGAAGGTGGTGGAGACGGAAGATGCCTACAAATTCGCCGGG CAGATGGGCATCCAGTTGTTGAGACCAGGCCAAGGAGAATGTCAACGTGGAAGAGATG TTCAACTGCATCACGGAGCTGGTCTCCGAGCAAAGAAAGACAACCTGGCAAAACAGCAG CAGCAACAACAGAACGATGTGGTGAAGCTCACGAAGAACAGTAAACGAAAGAAACGCTGC TGCTAA Clone variation with respect to NM_006861.6 |



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| 5' Read Nucleotide Sequence: | <p>>OriGene 5' read for NM_006861 unedited AGCATTTTGATACGACTCCTATAGGCGGCNCGCGATTTCGGCACGAGGCCGCCGCTGCCGG AGCAGCCCGAAGGAGCTGCGGATCGCGAGGCCAGTACCGACCCCGCCCGCCGCGCGCAC CGCCCCCGCCCGCATGGCCCGGACTACGACCACCTCTCAAGCTGCTCATCATCGGCG ACAGCGGTGTGGCAAGAGCAGTTTACTGTTGCGTTTTGCAGACAACACTTTCTCAGGCA GCTACATACCACGATCGGAGTGGATTTCAAGATCCGGACCGTGGAGATCAACGGGGAGA AGGTGAAGCTGCAGATCTGGGACACAGCGGGGCAGGAGCGCTCCGCACCATCACCTCCA CGTATTATCGGGGACCCACGGGGTCATTGTGGTTTACGACGTACCCAGTGCCGAGTCCT TTGTCAACGTCAAGCGGTGGCTTACGAAATCAACCAGAACTGTGATGATGTGTGCCGAA TATTAGTGGGTAATAAGAATGACGACCCTGAGCGGAAGGTGGTGGAGACGGAAGATGCCT ACAAATTCGCCGGGCAGATGGGCATCCAGTTGTTTCGAGACCAGCGCAAGGAGAATGTCA ACGTGGAAGAGATGTTCAACTGCATCACGGAGCTGGTCTCCGAGCAAAGAAAGACAACC TGGNCAACAGCAGCAGCAACAACAGAACGATGTGGTGAAGCTCACGAAGAACAGTAAAC GAAAGAAACGCTGCTGCTAATGGCACCCAGTCCACTGCAGAGACTGCACTGCGGTCCCTC CCCCAGCCGAGGCCACGGAGTTCTCGGGGACAGTCTCAGTTTCGTGCCGTTATTT AAAGAAATCTCTNCCATGTTTTGTATCGGGAGGTGCCATCGGACTTCTCCCCGCCTNC TCGAGTGCCAGAAGTGTGGACAGCCCGCTTCTATGGGCCCN</p> |
| 3' Read Nucleotide Sequence: | <p>>OriGene 3' read for NM_006861 unedited TATGGACCGCGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTAACTTGATTTG GCTTCATTTTCTGATCTGTTAAAATAATCCTCCCATAGCCCCCTGCCAGCCCATCTT TGCACGAACCTACCCGACCTTTCTGTTGAACTGAAACCTGTTGGTGTAAATGAAAAGC CATGGCTGCCCTGGGTTTGGAGCTCAAAGGCATCTAAAAGGCAGGACAAGAAATCTGTTG GCCAAAGGGCAAGACCTGCCACCTCTGTGAACTGCAGGGCTGCCTTGAACCAGGTTT CCCAGCTCCCAAAATGGCTGTGGGGACGCAACAACGGGGAGGGAAGGGAGCTGGCACAGG CCCTGGAGAAGGGGCAAGACCCTGTGCAGCGGGGACAGAGGCTGACAACCTGTCCGAGAG AATGAGCAACGCGGAGCCACTCCACTGGCACGGGCTGGCCGCAAACGCAGCTAGAACGT GCCGCTGTCTCCTCAGGACGCTGCTTGCAGTAAAATGGGCTGGGGAGGGGCGCGGGGAGG GTCTGTTGGAGCAGGCTGGCATCAAGAAGGCAAAGCCAAAGCAGGACGTGGTGTGCGGC CGGGTAAAGCAATATACACTATGTACAGACTCTCGAATCAGTCCGCTCGGCGGGCAGCG TCCTCGCCAGTCCAGGCGCCTTTGGCCGGGAAGGAGGGGGACCAGTAGGGGAAGGG GCGGGCTGGGTCCAACACCTTTCTTGGCACTCNAGGAGGGCGGGGNAAGGAAATGCCGAT GGNCACCTCCCGAACA AAAA ACTGAAAAGATTCTTTAAATACGCACGAACTGAAATGTCCC CGAGAACCTNCGTGGCTGGGCTGGGGAGGACCNATGCANCCTTGCATGGACTGGTGC ATTACANCAGTTTCTTCTTAA</p> |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_006861 |
| Insert Size: | 1580 bp |
| OTI Disclaimer: | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). |
| 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_006861.4](#), [NP_006852.1](#)

RefSeq Size: 2931 bp

RefSeq ORF: 606 bp

Locus ID: 11021

UniProt ID: [Q15286](#)

Cytogenetics: 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 postfurlowing 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]

Transcript Variant: This variant (1) encodes the longer isoform (1).