

Product datasheet for **MG202053**

Rab35 (NM_198163) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rab35 (NM_198163) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Rab35
Synonyms: 9530019H02Rik; AU040256; H-ray; RAB1C; RAY
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG202053 representing NM_198163
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCCCGGGACTACGACCACCTCTTCAAGCTGCTCATCATCGGGCAGACGGGTGTGGCAAGAGCAGCT
 TGCTGTTACGATTCGCAGACAACACCTTCTCAGGCAGCTACATCACCACAATCGGAGTGGATTTCAAGT
 TCGGACTGTGGAGATCAACGGGGAGAAGGTGAAGCTGCAGATCTGGGACACGGCAGGGCAGGAGCGCTTC
 CGCACCATCACCTCTACGTATTATCGGGGGACCCATGGGGTCATTGTGGTTTACGACGTCCTAGTGCCG
 AGTCCTTTGTCAACGTCAAGCGATGGCTTCATGAAATCAACCAGAAGTGTGACGATGTGTGCCGAATATT
 AGTGGGCAATAAGAATGATGACCCTGAGCGGAAGGTGGTAGAGACAGAAGATGCCTACAAATTTGCCGGG
 CAGATGGGGATCCAGCTCTTTGAGACCAGTGCCAAGGAGAACGTCAATGTGGAAGAGATGTTCAACTGTA
 TCACAGAGCTGGTTCTGCGAGCAAAGAAAGACAACTTGCGGAAACAGCAGCAGCAACAACAGAACGATGT
 GGTGAAGCTCACCAAAAACAGTAAACGAAAGAAACGCTGCTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG202053 representing NM_198163
 Red=Cloning site Green=Tags(s)

MARDYDHLFKLLIIGDSGVGKSSLLRFADNTFSGSYITTTIGVDFKIRTVEINGEKVKLQIWDTAGQERF
 RTITSTYYRGTHGVIIVYDVTSAESFVNVKRWLHEINQNCDDVCRILVGNKNDDPERKVVETEDAYKFAG
 QMGIQLFETSAKENVNVEEMFNCITELVLRKKDNLAKQQQQQNDVVKLTKNKRKRRC

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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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_198163.1](#), [NP_937806.1](#)

RefSeq Size: 2181 bp

RefSeq ORF: 606 bp

Locus ID: 77407

UniProt ID: [Q6PHN9](#)

Cytogenetics: 5 F

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]