

Product datasheet for **RN215520**

Rab35 (NM_001013046) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rab35 (NM_001013046) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Rab35
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN215520 representing NM_001013046 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCCGGGACTACGACCACCTCTTCAAGCTGCTCATCATCGGCGACAGCGGTGTGGGCAAGAGCAGCT
 TGCTGTTACGATTTGCAGACAACACCTTCTCAGGCAGCTACATCACCACAATCGGAGTGGATTTCAAGAT
 CCGGACTGTGGAGATCAACGGGGAGAAGGTGAAGCTGCAGATCTGGGACACTGCAGGGCAGGAGCGCTTC
 CGCACCATCACCTCTACGTATTATCGGGGACCCACGGGGTCATTGTGGTTTACGATGTCAGTGTGCCG
 AGTCCTTTGTCAATGTCAAGCGATGGCTTCATGAAATCAACCAGAACTGTGACGATGTGTGCCGAATATT
 AGTGGGCAATAAGAATGACGACCCTGAGCGGAAGGTGGTAGAGACAGAAGACGCCTACAAATTTGCCGGG
 CAGATGGGGATCCAGCTCTTTGAGACCAGTGCCAAGGAGAACGTCAATGTGGAAGAGATGTTCAACTGCA
 TCACAGAGCTGGTTCTACGGGCAAGAAAGACAACCTTGGCCAAACAGCAGCAGCAGCAACAGAACGATGT
 GGTGAAGCTCACCAAAACAGTAAACGAAAGAACGCTGCTGCT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001013046
Insert Size:	606 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).



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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:	<u>NM_001013046.1, NP_001013064.1</u>
RefSeq Size:	2151 bp
RefSeq ORF:	606 bp
Locus ID:	288700
UniProt ID:	<u>Q5U316</u>
Cytogenetics:	12q16
Gene Summary:	<p>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 postfurfrowing 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 (By similarity). [UniProtKB/Swiss-Prot Function]</p>