

Product datasheet for **RG200432**

RAB6A (NM_002869) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RAB6A (NM_002869) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: RAB6A
Synonyms: RAB6
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG200432 representing NM_002869
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCCACGGGCGGAGACTTCGGGAATCCGCTGAGGAAATCAAGCTGGTGTTCCTGGGGGAGCAAAGCG
 TTGAAAGACATCTTTGATCACCAGATTCATGTATGACAGTTTTGACAACACCTATCAGGCAACAATTGG
 CATTGACTTTTTATCAAAAATGTACTTGGAGGATCGAACAATCAGGCTTCAGCTGTGGGATACTGCC
 GGTGAGAACGTTCCGTAGCCTCATTCCAGTTACATCCGTGATTCTGCTGCAGCTGTAGTAGTTTACG
 ATATCACAAATGTTAACTCATTCCAGCAAACACAAAGTGGATTGATGATGTCAGAACAGAAAGAGGAAG
 TGATGTTATCATCATGCTAGTAGGAAATAAACAGATCTTGCTGACAAGAGGCAAGTGCAATTGAGGAG
 GGAGAGAGGAAAGCCAAAGAGCTGAATGTTATGTTTATTGAAACTAGTGCAAAAGCTGGATACAATGTAA
 AGCAGCTCTTTCGACGTGTAGCAGCAGCTTTGCCGGGAATGAAAAGCACACAGGACAGAAGCAGAGAAGA
 TATGATTGACATAAAAAGCTGAAAAGCCTCAGGAGCAACCAGTCAGTGAAGGAGGCTGTTCCTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG200432 representing NM_002869
 Red=Cloning site Green=Tags(s)

MSTGGDFGNPLRKFLVFLGEQSVGKTSLITRFMYDSFDNTYQATIGIDFLSKTMYLEDRTIRLQLWDTA
 GQERFRSLIPSYIRDSAAAVVYDITNVNSFQQTWKWIDVTERGSDVIIMLVGNKTDLADKRQVSIIE
 GERKAKELNVMFIETSAKAGYNVQKLFRRVAAALPGMESTQDRSREDMIDIKLEKQPVEGGCSC

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



Cloning Scheme:


ACCN: NM_002869

ORF Size: 624 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_002869.5](#)

RefSeq Size: 3419 bp

RefSeq ORF: 627 bp

Locus ID: 5870

UniProt ID: [P20340](#)

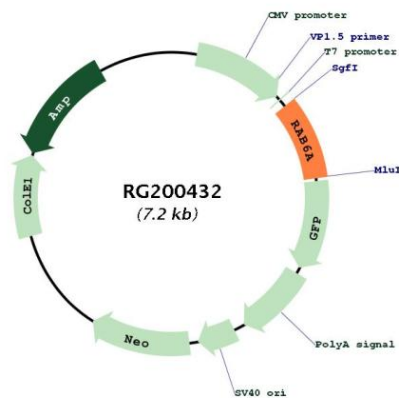
Cytogenetics: 11q13.4

Domains: ras, RAN, RAS, RHO, RAB

Protein Families: Druggable Genome

Gene Summary: This gene encodes a member of the RAB family, which belongs to the small GTPase superfamily. GTPases of the RAB family bind to various effectors to regulate the targeting and fusion of transport carriers to acceptor compartments. This protein is located at the Golgi apparatus, which regulates trafficking in both a retrograde (from early endosomes and Golgi to the endoplasmic reticulum) and an anterograde (from the Golgi to the plasma membrane) directions. Myosin II is an effector of this protein in these processes. This protein is also involved in assembly of human cytomegalovirus (HCMV) by interacting with the cellular protein Bicaudal D1, which interacts with the HCMV virion tegument protein, pp150. Multiple alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Aug 2011]

Product images:



Circular map for RG200432