

Product datasheet for **RG233391**

Rab2 (RAB2A) (NM_001242644) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rab2 (RAB2A) (NM_001242644) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: Rab2
Synonyms: LHX; RAB2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG233391 representing NM_001242644
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGTACGCCTATCTCTTCAAGTACATCATAATCGGCGACACAGGTGTAGAGTTCGGTGCTCGAATGA
 TAACTATTGATGGGAAACAGATAAACTTCAGATATGGGATACGGCAGGGCAAGAATCCTTCGTTCCAT
 CACAAGGTCGTATTACAGAGGTGCAGCAGGAGCTTTACTAGTTTACGATATTACACGGAGAGATACATTC
 AACCACTTGACAACCTGGTTAGAAGATGCCGCCAGCATTCCAATCCAACATGGTCATTATGCTTATTG
 GAAATAAAAGTGATTTAGAATCTAGAAGAGAAGTAAAAAAGAAGAAGGTGAAGCTTTTGCACGAGAACA
 TGGACTCATCTTCATGGAAACGTCTGCTAAGACTGCTTCCAATGTAGAAGAGGCATTTATTAATACAGCA
 AAAGAAATTTATGAAAAATTCAGAAGGAGTCTTTGACATTAATAATGAGGCAAATGGCATTAAAATTG
 GCCCTCAGCATGCTGCTACCAATGCAACACATGCAGGCAATCAGGGAGGACAGCAGGCTGGGGCGGCTG
 CTGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG233391 representing NM_001242644
 Red=Cloning site Green=Tags(s)

MAYAYLFKYIIIGDVGVEFGARMITIDGKQIKLQIWDTAGQESFRSITRSYYRGAAGALLVYDITRRDTE
 NHLTTWLEDARQHNSNMVIMLIGNKSDLESRREVKKEEGEAFAREHGLIFMETSAKTASNVEEAFINTA
 KEIYEKIQEGVFDINNEANGIKIGPQHAATNATHAGNQGGQQAGGGCC

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_001242644

ORF Size: 564 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_001242644.1](#), [NP_001229573.1](#)

RefSeq Size: 3740 bp

RefSeq ORF: 567 bp

Locus ID: 5862

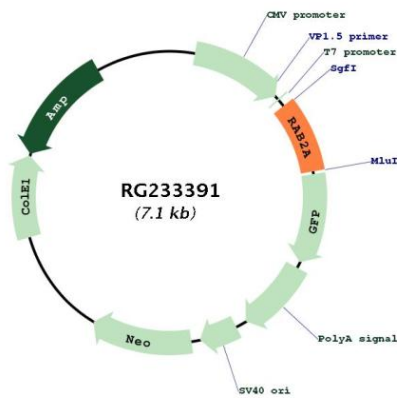
UniProt ID: [P61019](#)

Cytogenetics: 8q12.1-q12.2

Protein Families: Druggable Genome

Gene Summary: The protein encoded by this gene belongs to the Rab family, members of which are small molecular weight guanosine triphosphatases (GTPases) that contain highly conserved domains involved in GTP binding and hydrolysis. The Rabs are membrane-bound proteins, involved in vesicular fusion and trafficking. This protein is a resident of pre-Golgi intermediates, and is required for protein transport from the endoplasmic reticulum (ER) to the Golgi complex. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]

Product images:



Circular map for RG233391