

## Product datasheet for **RC233391**

### 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:** Myc-DDK  
**Symbol:** Rab2  
**Synonyms:** LHX; RAB2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC233391 representing NM\_001242644  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGTACGCCTATCTCTTCAAGTACATCATAATCGGCGACACAGGTGTAGAGTTCGGTCTCGAATGA  
 TAACTATTGATGGGAAACAGATAAACTTCAGATATGGGATACGGCAGGGCAAGAATCCTTCGTTCCAT  
 CACAAGGTCGTATTACAGAGGTGCAGCAGGAGCTTTACTAGTTTACGATATTACACGGAGAGATACATTC  
 AACCACTTGACAACCTGGTTAGAAGATGCCCGCCAGCATTCCAATCCAACATGGTCATTATGCTTATTG  
 GAAATAAAAGTGATTTAGAATCTAGAAGAGAAGTAAAAAAGAAGAAGGTGAAGCTTTTGCACGAGAACA  
 TGGACTCATCTTCATGGAAACGTCTGCTAAGACTGCTTCCAATGTAGAAGAGGCATTTATTAATACAGCA  
 AAAGAAATTTATGAAAAATTCAGAAGGAGTCTTTGACATTAATAATGAGGCAAATGGCATTAAAATTG  
 GCCCTCAGCATGCTGCTACCAATGCAACACATGCAGGCAATCAGGGAGGACAGCAGGCTGGGGCGGCTG  
 CTGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC233391 representing NM\_001242644  
 Red=Cloning site Green=Tags(s)

MAYAYLFKYIIIGDTGVEFGARMITIDGKQIKLQIWDTAGQESFRSITRSYYRGAAGALLVYDITRRDTF  
 NHLTTWLEDARQHSNSNMVIMLIGNKSDLESRRVKKKEEAEFAREHGLIFMETSAKTASNVEEAFINTA  
 KEIYEKIQEGVFDINNEANGIKIGPQHAATNATHAGNQGGQQAGGGCC

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**



Restriction Sites: SgfI-MluI

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](#)

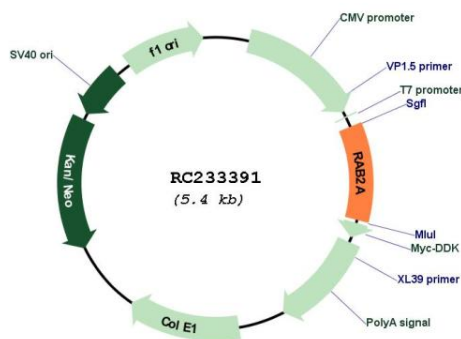
Cytogenetics: 8q12.1-q12.2

Protein Families: Druggable Genome

MW: 21.3 kDa

**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 RC233391