

Product datasheet for **RC232102**

Rab9 (RAB9A) (NM_001195328) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rab9 (RAB9A) (NM_001195328) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: Rab9
Synonyms: RAB9
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC232102 representing NM_001195328
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCAGGAAAATCATCACTTTTTAAAGTAATTCTCCTTGGAGATGGTGGAGTTGGGAAGAGTTCACCTTA
 TGAACAGATATGTAATAAAGTTTGATACCCAGCTCTCCATAACAATAGGTGTGGAATTTTTAAATAA
 AGATTTGGAAGTGGATGGACATTTGTTACCATGCAGATTTGGGACACGGCAGGTGAGGAGCGATCCGA
 AGCCTGAGGACACCATTTACAGAGTTCTGACTGCTGCCTGCTACTTTTAGTGTGCATGATTCACAAA
 GCTTCCAGAACTTAAGTAAGTGAAGAAAGAATTCATATATTATGCAGATGTGAAAGAGCCTGAGAGCTT
 TCCTTTTGTGATTCTGGGTAACAAGATTGACATAAGCGAACGGCAGGTGTCTACAGAAGAAGCCCAAGCT
 TGGTGCAGGGACAACGGCGACTATCCTTATTTGAAACAAGTGCAAAAGATGCCACAAATGTGGCAGCAG
 CCTTTGAGGAAGCGGTTGGAAGATTCTTGTCTACCGAGGATAGGTGATCATTGATTCAGACAGACAC
 AGTCAATCTTCACCGAAAGCCCAAGCCTAGCTCATCTTGCTGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC232102 representing NM_001195328
 Red=Cloning site Green=Tags(s)

MAGKSSLFKVILLGDGGVGKSSLMNRYVTNKFDLQFHTIGVEFLNKDLEVDGHFVTMQIWDTAGQERFR
 SLRTPFYRGSDCCLLTFVDDSQSFQNL SNWKKEFIYYADVKEPESFPFVILGNKIDISERQVSTEEAQA
 WCRDNGDYPYFETS AKDATNVAAAFEEAVRRVLATEDRS DHLIQTDTVNLHRKPKPSSSCC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001195328

ORF Size: 603 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_001195328.1](#), [NP_001182257.1](#)

RefSeq Size: 1288 bp

RefSeq ORF: 606 bp

Locus ID: 9367

UniProt ID: [P51151](#)

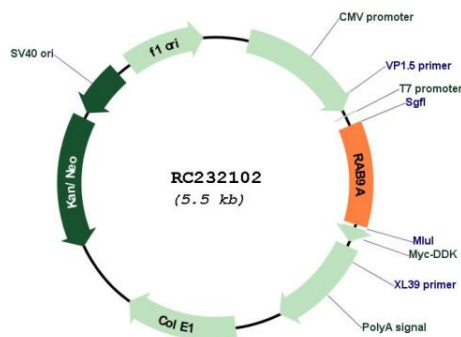
Cytogenetics: Xp22.2

Protein Families: Druggable Genome

MW: 23.3 kDa

Gene Summary: Involved in the transport of proteins between the endosomes and the trans Golgi network. Involved in the recruitment of SGSM2 to melanosomes and is required for the proper trafficking of melanogenic enzymes TYR, TYRP1 and DCT/TYRP2 to melanosomes in melanocytes.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC232102