

Product datasheet for **RC205698**

Rab9 (RAB9A) (NM_004251) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rab9 (RAB9A) (NM_004251) 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: >RC205698 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCAGGAAAATCATCACTTTTTAAAGTAATTCTCCTTGGAGATGGTGGAGTTGGGAAGAGTTCACCTTA
 TGAACAGATATGTAATAAAGTTTGATACCCAGCTCTCCATAACAATAGGTGTGAATTTTTAAATAA
 AGATTTGGAAGTGGATGGACATTTGTTACCATGCAGATTTGGGACACGGCAGGTGAGGAGCGATCCGA
 AGCCTGAGGACACCATTTACAGAGTTCTGACTGCTGCCTGCTACTTTTAGTGTGCATGATTCACAAA
 GCTTCCAGAACTTAAGTAACTGGAAGAAAGAATTCATATATTATGCAGATGTGAAAGAGCCTGAGAGCTT
 TCCTTTTGTGATTCTGGGTAACAAGATTGACATAAGCGAACGGCAGGTGTCTACAGAAGAAGCCCAAGCT
 TGGTGCAGGGACAACGGCGACTATCCTTATTTGAAACAAGTGCAAAAGATGCCACAAATGTGGCAGCAG
 CCTTTGAGGAAGCGGTTGGAAGATTCTTGTCTACCGAGGATAGGTGATCATTGATTCAGACAGACAC
 AGTCAATCTTCACCGAAAGCCCAAGCCTAGCTCATCTTGCTGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC205698 protein sequence
 Red=Cloning site Green=Tags(s)

MAGKSSLFKVILLGDGGVKGSSLMNRYVTNKFDLQFHTIGVEFLNKDLEVDGHFVTMQIWDTAGQERFR
 SLRTPFYRGSDCCLLTFVDDSQSFQNL SNWKKEFIYYADVKEPESFPFVILGNKIDISERQVSTEEAQA
 WCRDNGDYPYFETSAKDATNVAFAEEAVRRVLATEDRSDHLIQTDTVNLHRKPKPSSSCC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Chromatograms: https://cdn.origene.com/chromatograms/mk6063_d04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004251

ORF Size: 603 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.

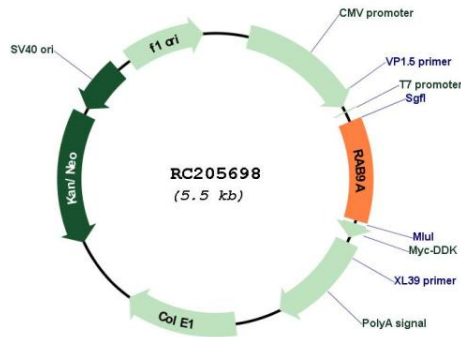
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_004251.5](#)

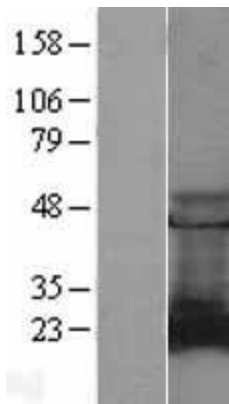
RefSeq Size: 1377 bp

RefSeq ORF:	606 bp
Locus ID:	9367
UniProt ID:	P51151
Cytogenetics:	Xp22.2
Domains:	ras, RAN, RAS, RHO, RAB
Protein Families:	Druggable Genome
MW:	22.8 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]

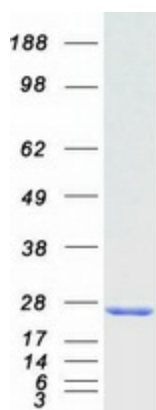
Product images:



Circular map for RC205698



Western blot validation of overexpression lysate (Cat# [LY401363]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205698 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RAB9A protein (Cat# [TP305698]). The protein was produced from HEK293T cells transfected with RAB9A cDNA clone (Cat# RC205698) using MegaTran 2.0 (Cat# [TT210002]).