

Product datasheet for **RG205698**

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: TurboGFP
Symbol: Rab9
Synonyms: RAB9
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG205698 representing NM_004251
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCAGGAAATCATCACTTTTTAAAGTAATTCTCCTTGGAGATGGTGGAGTTGGGAAGAGTTCCTTA
 TGAACAGATATGTAATAAAGTTTGATACCCAGCTCTCCATACAATAGGTGTGAATTTTAAATAA
 AGATTTGGAAGTGGATGGACATTTTGTACCATGCAGATTTGGGACACGGCAGGTCAGGAGCGATTCCGA
 AGCCTGAGGACACCATTTTACAGAGTTCTGACTGCTGCCTGCTTACTTTTAGTGTGATGATTCACAAA
 GCTTCCAGAACTTAAGTAAGTGAAGAAAGAATTCATATATTATGCAGATGTAAAGAGCCTGAGAGCTT
 TCCTTTTGTGATTCTGGGTAACAAGATTGACATAAGCGAACGGCAGGTGTCTACAGAAGAAGCCCAAGCT
 TGGTGCAGGGACAACGGCGACTATCCTTATTTTGAACAAGTGCAAAAGATGCCACAAATGTGGCAGCAG
 CCTTTGAGGAAGCGGTTTGAAGAGTTCTTGCTACCGAGGATAGGTCAGATCATTTGATTCAGACAGACAC
 AGTCAATCTTCACCGAAAGCCCAAGCCTAGCTCATCTTGCTGT

A**CGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG205698 representing NM_004251
 Red=Cloning site Green=Tags(s)

MAGKSSLFKVILLGDGGVGKSSLMNRYVTNKFDQLFHTIGVEFLNKDLEVDGHFVTMQIWDTAGQERFR
 SLRTPFYRGSDCCLLTFVDDSQSFQNL SNWKKEFIYYADVKEPESFPFVILGNKIDISERQVSTEEAQA
 WCRDNGDYPYFETSAKDATNVA AFEEAVRRVLATEDRSDHLIQTDTVNLHRKPKPSSSSC

T**R**T**R**P**L**E - GFP Tag - V

Restriction Sites: Sgfl-MluI



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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.

RefSeq: [NM_004251.5](#)

RefSeq Size: 1097 bp

RefSeq ORF: 606 bp

Locus ID: 9367

UniProt ID: [P51151](#)

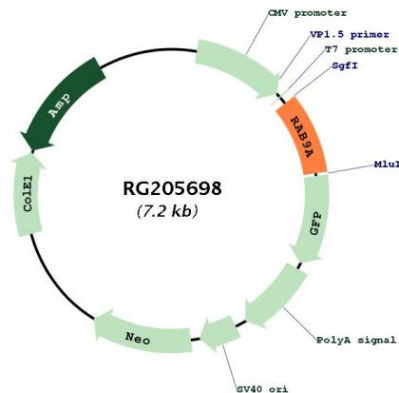
Cytogenetics: Xp22.2

Domains: ras, RAN, RAS, RHO, RAB

Protein Families: Druggable Genome

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 RG205698