

## Product datasheet for **RG232102**

### 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:	TurboGFP
Symbol:	Rab9
Synonyms:	RAB9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG232102 representing NM_001195328 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCAGGAAATCATCACTTTTTAAAGTAATTCTCCTTGGAGATGGTGGAGTTGGGAAGAGTTCCTTA  
 TGAACAGATATGTAATAAAGTTTGATACCCAGCTCTCCATACAATAGGTGTGAATTTTAAATAA  
 AGATTTGGAAGTGGATGGACATTTTGTACCATGCAGATTTGGGACACGGCAGGTCAGGAGCGATTCCGA  
 AGCCTGAGGACACCATTTTACAGAGTTCTGACTGCTGCCTGCTTACTTTTAGTGTGATGATTCACAAA  
 GCTTCCAGAACTTAAGTAAGTGAAGAAAGAATTCATATATTATGCAGATGTAAAGAGCCTGAGAGCTT  
 TCCTTTTGTGATTCTGGGTAACAAGATTGACATAAGCGAACGGCAGGTGTCTACAGAAGAAGCCCAAGCT  
 TGGTGCAGGGACAACGGCGACTATCCTTATTTTAAACAAGTGCAAAAGATGCCACAAATGTGGCAGCAG  
 CCTTTGAGGAAGCGGTTTGAAGAGTTCTTGCTACCGAGGATAGGTCAGATCATTTGATTCAGACAGACAC  
 AGTCAATCTTCACCGAAAGCCCAAGCCTAGCTCATCTTGCTGT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:	>RG232102 representing NM_001195328 Red=Cloning site Green=Tags(s)
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MAGKSSLFKVILLGDGGVGKSSLMNRYVTNKFDQLFHTIGVEFLNKDLEVDGHFVTMQIWDTAGQERFR  
 SLRTPFYRGSDCCLLTFVDDSQSFQNL SNWKKEFIYYADVKEPESFPFVILGNKIDISERVSTEEAQA  
 WCRDNGDYPYFETSAKDATNVAFAEEAVRRVLATEDRSDHLIQDTVNLHRKPKPSSSSC

**TRTRPLE** - GFP Tag - V

Restriction Sites:	Sgfl-MluI
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**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](mailto: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).

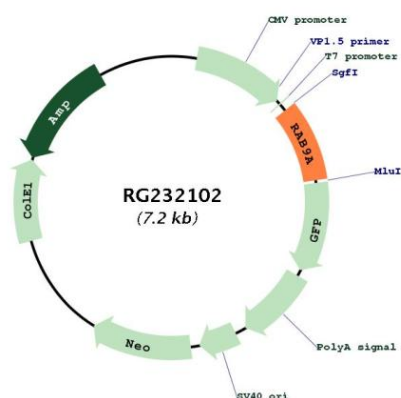
**Reconstitution Method:**

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:	<a href="#">P51151</a>
Cytogenetics:	Xp22.2
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 RG232102