

Product datasheet for **RG201464**

RAB10 (NM_016131) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: RAB10 (NM_016131) Human Tagged ORF Clone
 Tag: TurboGFP
 Symbol: RAB10
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-AC-GFP (PS100010)
 E. coli Selection: Ampicillin (100 ug/mL)
 ORF Nucleotide Sequence: >RG201464 representing NM_016131
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGAAGAAGACGTACGACCTGCTTTTCAAGCTGCTCCTGATCGGGGATTCGGAGTGGGGAAGACCT
 GCGTCCTTTTTTCGTTTTTCGGATGATGCCTTCAATACTACCTTTATTTCCACCATAGGAATAGACTTCAA
 GATCAAAACAGTTGAATTACAAGGAAAGAAGATCAAGCTACAGATATGGGATACAGCAGGCCAGGAGCGA
 TTTACACCCATCACAACCTCCTACTACAGAGCGCAATGGGTATCATGCTAGTATATGACATCACCAATG
 GTAAAAGTTTTGAAAACATCAGCAAATGGCTTAGAAAACATAGATGAGCATGCCAATGAAGATGTGGAAAG
 AATGTTACTAGGAAACAAGTGTGATATGGACGACAAAAGAGTTGTACCTAAAGGAAAAGGAGAACAGATT
 GCAAGGGAGCATGGTATTAGTTTTTTGAGACTAGTGCAAAGCAAATATAAACATCGAAAAGCGTTCC
 TCACGTTAGCTGAAGATATCCTTCGAAAGACCCCTGTAAAAGAGCCCAACAGTAAAAATGTAGATATCAG
 CAGTGGAGGAGCGTGACAGGCTGGAAGAGCAAATGCTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG201464 representing NM_016131
 Red=Cloning site Green=Tags(s)

MAKPTYDLLFKLLLIGDSGVGKTCVLFRRSDDAFNTTFISTIGIDFKIKTVELQGKKIKLQIWDTAGQER
 FHTITTSYYRGAMGIMLVYDITNGKSFENISKWLRNIDEHANEDVERMLLGNKCDMDDKRVVPGKGEQI
 AREHGIRFFETSAKANINIEKAFLTLAEDILRKTPVKEPNSENVDISSGGVGTGWKSKCC

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_016131

ORF Size: 600 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.

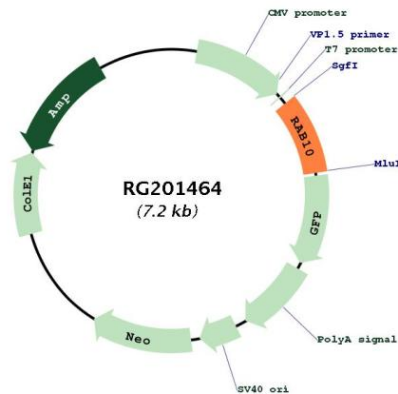
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_016131.5](#)
RefSeq Size: 3785 bp
RefSeq ORF: 603 bp
Locus ID: 10890
UniProt ID: [P61026](#)
Cytogenetics: 2p23.3
Domains: ras, RAN, RAS, RHO, RAB
Protein Families: Druggable Genome
Gene Summary: RAB10 belongs to the RAS (see HRAS; MIM 190020) superfamily of small GTPases. RAB proteins localize to exocytic and endocytic compartments and regulate intracellular vesicle trafficking (Bao et al., 1998 [PubMed 9918381]).[supplied by OMIM, Mar 2009]

Product images:



Circular map for RG201464