

Product datasheet for **RG200431**

RAB7L1 (RAB29) (NM_003929) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAB7L1 (RAB29) (NM_003929) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RAB7L1
Synonyms:	RAB7L; RAB7L1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200431 representing NM_003929 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGCAGCCGCGACCACTGTTCAAAGTGTGGTGGTGGGGACGCCGAGTGGGCAAGACGTCGCTGG
 TGCAGCGATATCCCAGGACAGCTTCAGCAAACACTACAAGTCCACGGTGGGAGTGGATTTTGCTCTGAA
 GGTTCTCCAGTGGTCTGACTACGAGATAGTGGCTTCAGCTGTGGGATATTGCAGGGCAGGAGCGCTTC
 ACCTCTATGACACGATTGTATTATCGGGATGCCTCTGCCTGTGTTATTATGTTTGACGTTACCAATGCCA
 CTACCTTCAGCAACAGCCAGAGGTGAAACAGGACCTAGACAGCAAGCTCACACTACCAATGGAGAGCC
 GGTGCCCTGCCTGCTCTTGGCCAACAAGTGTGATCTGTCCCTTGGGCAGTGAGCCGGGACCAGATTGAC
 CGGTTCAGTAAAGAGAACGGTTTTCACAGGTTGGACAGAAACATCAGTCAAGGAGAACAAAAATTAATG
 AGGCTATGAGAGTCCTCATTGAAAAGATGATGAGAAATTCACAGAAGATATCATGTCTTTGTCCACCCA
 AGGGGACTACATCAATCTACAAACCAAGTCCTCCAGCTGGTCCTGCTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:	>RG200431 representing NM_003929 Red=Cloning site Green=Tags(s)
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MGSRDHLFKVLVVGDAAVGKTSLVQRYSDSFSKHYKSTVGVDFAKVLQWSDYEIVRLQLWDIAGQERF
 TSMTRLYYRDASACVIMFDVTNATTFSNSQRWKQDLDSKLTLPNGEPVPCLLANKCDLSPWAVSRDQID
 RFSKENGFTGWTETSVKENKNINEAMRVLIEKMMRNSTEDIMSLSTQGDYINLQTKSSSWSCC

TRTRPLE - GFP Tag - V

Restriction Sites:	Sgfl-MluI
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Cloning Scheme:


ACCN: NM_003929

ORF Size: 609 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).

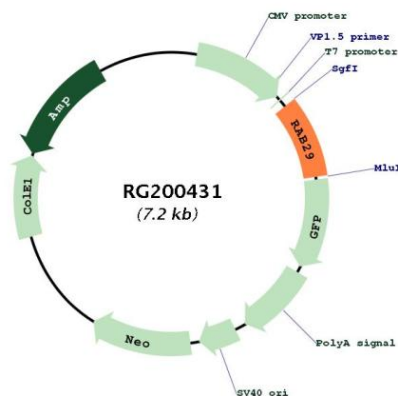
Reconstitution Method:

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_003929.3](#)

RefSeq Size:	2443 bp
RefSeq ORF:	612 bp
Locus ID:	8934
UniProt ID:	Q14966
Cytogenetics:	1q32.1
Domains:	ras, RAN, RAS, RHO, RAB
Protein Families:	Druggable Genome
Gene Summary:	Rab GTPase key regulator in vesicle trafficking. Essential for maintaining the integrity of the endosome-trans-Golgi network structure. Together with LRRK2, plays a role in the retrograde trafficking pathway for recycling proteins, such as mannose 6 phosphate receptor (M6PR), between lysosomes and the Golgi apparatus in a retromer-dependent manner. Regulates neuronal process morphology in the intact central nervous system (CNS). May play a role in the formation of typhoid toxin transport intermediates during Salmonella enterica serovar Typhi (S.Typhi) epithelial cell infection.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG200431