

Product datasheet for **RC227104**

RAB7L1 (RAB29) (NM_001135663) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RAB7L1 (RAB29) (NM_001135663) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: RAB7L1
Synonyms: RAB7L; RAB7L1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC227104 representing NM_001135663
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGGGCAGCCGCGACCACTGTTCAAAGTGTGGTGGTGGGGACGCCGAGTGGGCAAGACGTCGCTGG
 TGCAGCGATATCCCAGGACAGCTTCAGCAAACACTACAAGTCCACGGTGGGAGGGCAGGAGCGCTTCAC
 CTCTATGACACGATTGTATTATCGGGATGCCTCTGCCTGTGTATTATGTTTGACGTTACCAATGCCACT
 ACCTTCAGCAACAGCCAGAGGTGAAACAGGACCTAGACAGCAAGCTCACACTACCAATGGAGAGCCGG
 TGCCCTGCCTGCTCTTGGCCAACAAGTGTGATCTGTCCCCTTGGGCAGTGAGCCGGGACCAGATTGACCG
 GTTCAGTAAAGAGAACGGTTTCACAGTTGGACAGAAACATCAGTCAAGGAGAACAAAAATTAATGAG
 GCTATGAGAGTCCTATTGAAAAGATGATGAGAAATCCACAGAAGATATCATGTCTTTGTCCACCAAG
 GGGACTACATCAATCTACAAACCAAGTCTCCAGCTGGTCCTGCTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC227104 representing NM_001135663
Red=Cloning site Green=Tags(s)

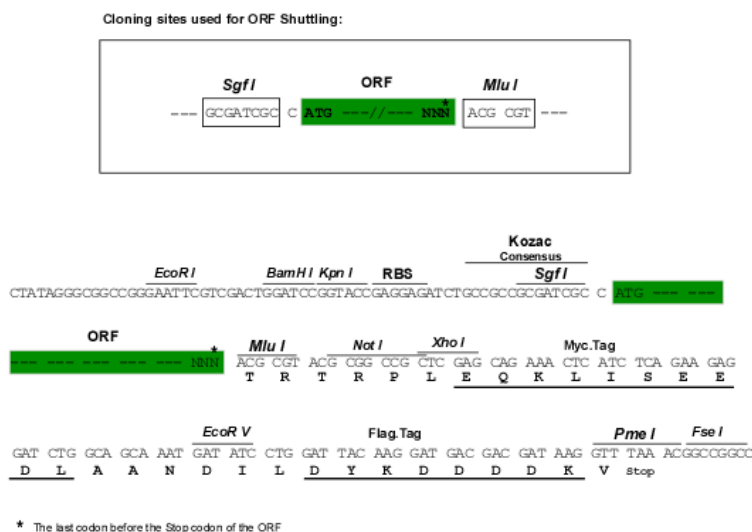
MGSRDHLFKVLVVGDAAVGKTSLVQRYSDSF SKHYKSTVGGQERFTSMTRLYYRDASACVIMFDVTNAT
 TFSNSQRWKQDLDSKLTLPNGEPVPCLLLANKCDLSPWAVSRDQIDRF SKENGFTGTWETSVKENKNINE
 AMRVLIEKMMRNSTEDIMSLSTQGDYINLQTKSSSWSCC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_001135663

ORF Size: 537 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_001135663.2](#)

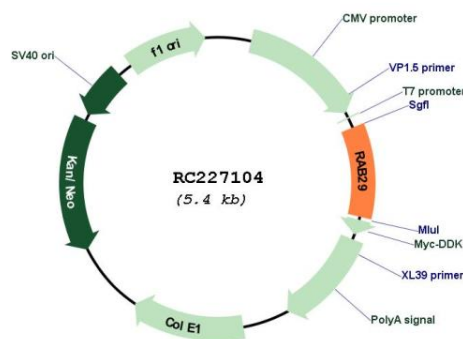
RefSeq ORF: 540 bp

Locus ID: 8934

UniProt ID: [Q14966](#)

Cytogenetics:	1q32.1
Protein Families:	Druggable Genome
MW:	20.1 kDa
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 <i>Salmonella enterica</i> serovar Typhi (S.Typhi) epithelial cell infection.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC227104