

Product datasheet for **RC200431**

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: 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: >RC200431 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGCAGCCGCGACCACCTGTTCAAAGTCTGGTGGTGGGGACGCCGAGTGGGCAAGACGTCGCTGG
TGCAGCGATATCCCAGGACAGCTTCAGCAAACACTACAAGTCCACGGTGGGAGTGGATTTTCTGCTGAA
GGTTCTCCAGTGGTCTGACTACGAGATAGTGGGCTTCAGCTGTGGGATATTGCAGGGCAGGAGCGCTTC
ACCTCTATGACACGATTGTATTATCGGGATGCCTCTGCCTGTATTATGTTTGACGTTACCAATGCCA
CTACCTTCAGCAACAGCCAGAGGTGAAACAGGACCTAGACAGCAAGCTCACACTACCAATGGAGAGCC
GGTGGCCCTGCCTGCTCTTGGCCAACAAGTGTGATCTGTCCCTTGGGAGTGGAGCCGGGACCAGATTGAC
CGGTTTCAGTAAAGAGAACGGTTTTCACAGTTGGACAGAAACATCAGTCAAGGAGAACAATAATTAATG
AGGCTATGAGAGTCTCATTGAAAAGATGATGAGAAAATCCACAGAAGATATCATGTCTTTGTCCACCCA
AGGGGACTACATCAATCTACAAACCAAGTCTCCAGCTGGTCTGCTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC200431 protein sequence
Red=Cloning site Green=Tags(s)

MGSRDHLFKVLVVGDAAVGKTSLVQRYSDSFSKHYKSTVGVDFALKVLQWSDYEIVRLQLWDIAGQERF
TSMTRLYYRDASACVIMFDVTNATTFSNSQRWKQDLDSKLTLPNGEPVPCLLLANKCDLSPWAVSRDQID
RFSKENGFTGWTETSVKENKNINEAMRVLIEKMMRNSTEDIMSLSTQGDYINLQTKSSSWSCC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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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: 3324 bp

RefSeq ORF: 612 bp

Locus ID: 8934

UniProt ID: [O14966](#)

Cytogenetics: 1q32.1

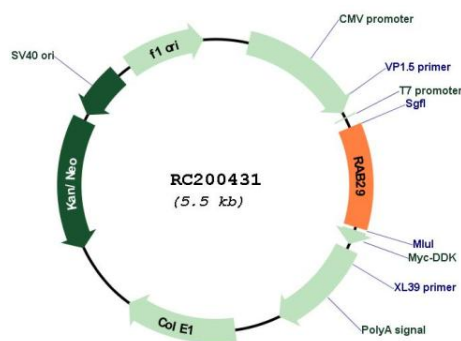
Domains: ras, RAN, RAS, RHO, RAB

Protein Families: Druggable Genome

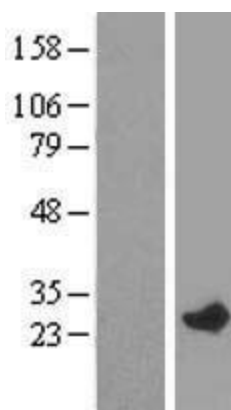
MW: 23.2 kDa

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 *Salmonella enterica* serovar Typhi (*S.Typhi*) epithelial cell infection.[UniProtKB/Swiss-Prot Function]

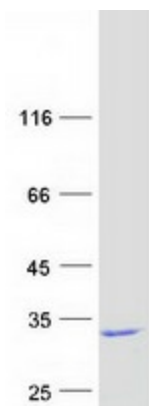
Product images:



Circular map for RC200431



Western blot validation of overexpression lysate (Cat# [LY427656]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC227093] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RAB29 protein (Cat# [TP300431]). The protein was produced from HEK293T cells transfected with RAB29 cDNA clone (Cat# RC200431) using MegaTran 2.0 (Cat# [TT210002]).