

Product datasheet for **RC211472**

RAB12 (NM_001025300) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RAB12 (NM_001025300) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: RAB12
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC211472 representing NM_001025300
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATCCGGGCGCCGCGCTGCAGAGGCGGGCCGGGGCGGGCGGGTCTGGGCGGGGCTCCCCGGCGC
TGTCGGGCGGCCAGGGCCGCGGAGGAAGCAGCCCCCAGGCCGGCCGACTTCAAGTTGCAGGTCATCAT
TATCGGCTCCCGCGCGTGGGCAAGACCAGCCTGATGGAGCGCTTACCGACGACACCTTCTGCGAGGCC
TGCAAGTCCACCGTGGGTGTTGACTTCAAATCAAACCTGTAGAGCTAAGAGGAAAGAAAATTAGATTAC
AGATCTGGGACACAGCAGGTGAGGAGAGATTCAACAGCATTACCTCAGCTTATTACAGAAGTGCCAAAGGG
GATCATATTAGTATATGATATCACTAAGAAGGAGACATTTGATGATTTGCCGAAATGGATGAAGATGATT
GATAAGTATGCTTCAGAAGATGCAGAGCTTCTCTTAGTTGAAAATAAGTTGGACTGTGAAACGGACAGAG
AAATCACCAGGCAGCAGGGGAAAAGTTTGCACAGCAGATCACTGGGATGCGGTTCTGTGAAGCAAGTGC
CAAGGATAACTTCAATGTGGACGAGATATTTTTGAACTTGTGATGACATTCTGAAAAAGATGCCTCTG
GATATTTAAGGAATGAGTTGTCCAATAGTATCTGTCTGTTACAACCAGAGCCTGAGATACCGCCAGAAC
TGCTCCACCAAGACCACATGTCCGATGCTGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001025300.2](#), [NP_001020471.2](#)

RefSeq Size: 2138 bp

RefSeq ORF: 735 bp

Locus ID: 201475

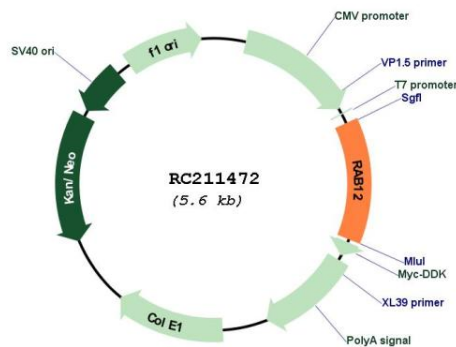
UniProt ID: [Q6IQ22](#)

Cytogenetics: 18p11.22

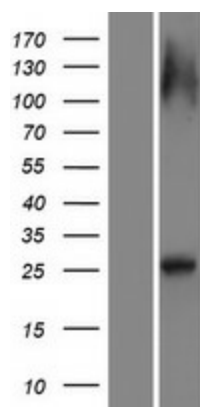
MW: 27.1 kDa

Gene Summary: The small GTPases Rab are key regulators of intracellular membrane trafficking, from the formation of transport vesicles to their fusion with membranes. Rabs cycle between an inactive GDP-bound form and an active GTP-bound form that is able to recruit to membranes different set of downstream effectors directly responsible for vesicle formation, movement, tethering and fusion. That Rab may play a role in protein transport from recycling endosomes to lysosomes regulating, for instance, the degradation of the transferrin receptor. Involved in autophagy (By similarity).[UniProtKB/Swiss-Prot Function]

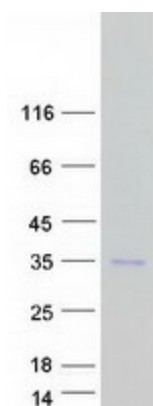
Product images:



Circular map for RC211472



Western blot validation of overexpression lysate (Cat# [LY422432]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211472 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RAB12 protein (Cat# [TP311472]). The protein was produced from HEK293T cells transfected with RAB12 cDNA clone (Cat# RC211472) using MegaTran 2.0 (Cat# [TT210002]).