

Product datasheet for **RC210698**

RAB5C (NM_201434) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	RAB5C
Synonyms:	L1880; RAB5CL; RAB5L; RABL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC210698 representing NM_201434 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGGTCGGGGAGGCGCAGCACGACCCAATGGACCAGCTGCTGGGAACAAGATCTGTCAATTTAAGC
 TGGTTCTGCTGGGGAGTCTGCGGTAGGCAAATCCAGCCTCGTCCTCCGCTTTGTCAAGGGACAGTTTCA
 CGAGTACCAGGAGAGCACAATTGGAGCGGCCTTCCTCACAGACTGTCTGCCTGGATGACACAACAGTC
 AAGTTTGAGATCTGGGACACAGCTGGACAGGAGCGGTATCACAGCCTGGCCCCATGTACTATCGGGGG
 CCCAGGCTGCCATCGTGGTCTATGACATCACCAACACAGATACATTTGCACGGGCCAAGAAGTGGGTGAA
 GGAGCTACAGAGGCAGGCCAGCCCCAACATCGTCATTGCACTCGCGGGTAACAAGGCAGACCTGGCCAGC
 AAGAGAGCCGTGGAATTCCAGGAAGCACAAAGCCTATGCAGACGACAACAGTTTGCTGTTCATGGAGACAT
 CAGCAAAGACTGCAATGAACGTGAACGAAATCTTCATGGCAATAGCTAAGAAGCTTCCCAAGAACGAGCC
 CCAGATGCAACTGGTGCTCCAGGCCGAAACCGAGGTGTGGACCTCCAGGAGAACCAACCCAGCCAGCCGG
 AGCCAGTGCTGCAGCAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC210698 representing NM_201434 Red=Cloning site Green=Tags(s)
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MAGRGAARPNGPAAGNKICQFKLVLLGESAVGKSSLVLRVKGQFHEYQESTIGAAFLTQTVCLDDTTV
 KFEIWDTAGQERYHSLAPMYRGAQAAIVVYDITNTDTFARAKNWVKELQRQASPNIVIALAGNKADLAS
 KRAVEFQEAQAYADDNSLLFMETSAKTAMNVNEIFMAIAKKLPKNPQNATGAPGRNRGVDLQENNPASR
 SQCCSN

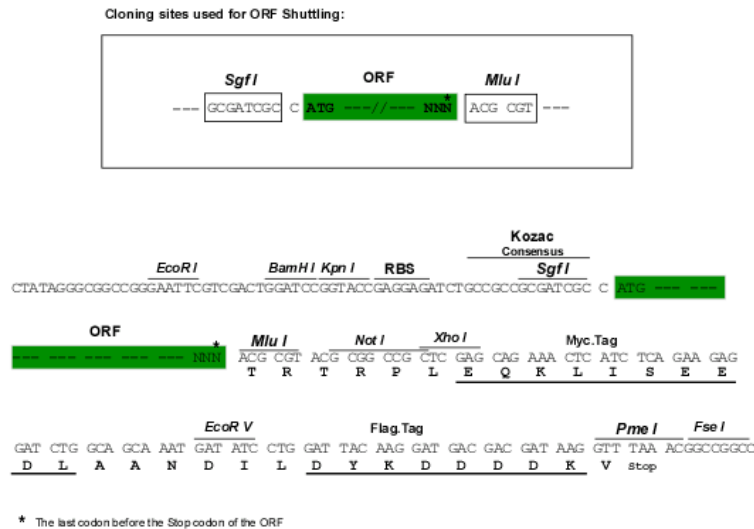
TRTRPLEQKLISEEDLAANDILDYKDDDDKV


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Chromatograms: https://cdn.origene.com/chromatograms/ja1433_a08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_201434

ORF Size: 648 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.

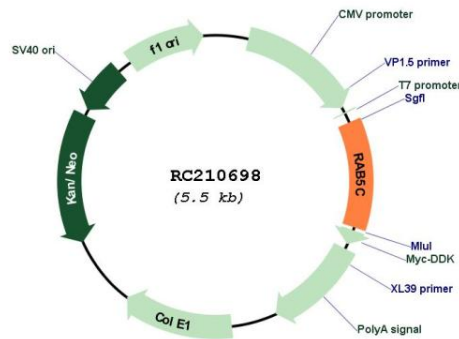
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_201434.3](#)

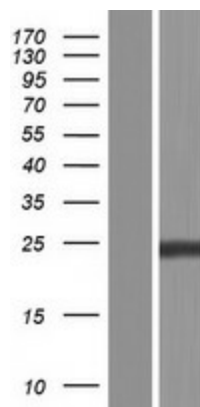
RefSeq Size: 1791 bp

RefSeq ORF:	651 bp
Locus ID:	5878
UniProt ID:	P51148
Cytogenetics:	17q21.2
Protein Families:	Druggable Genome
Protein Pathways:	Endocytosis
MW:	23.3 kDa
Gene Summary:	Members of the Rab protein family are small GTPases of the Ras superfamily that are thought to ensure fidelity in the process of docking and/or fusion of vesicles with their correct acceptor compartment (Han et al., 1996 [PubMed 8646882]).[supplied by OMIM, Nov 2010]

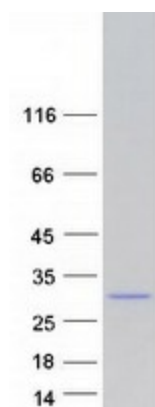
Product images:



Circular map for RC210698



Western blot validation of overexpression lysate (Cat# [LY404416]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210698 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RAB5C protein (Cat# [TP310698]). The protein was produced from HEK293T cells transfected with RAB5C cDNA clone (Cat# RC210698) using MegaTran 2.0 (Cat# [TT210002]).