

Product datasheet for **RC212442**

RABGAP1L (NM_014857) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RABGAP1L (NM_014857) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RABGAP1L
Synonyms:	HHL; TBC1D18
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RC212442 representing NM_014857
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

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Protein Sequence: >RC212442 representing NM_014857
 Red=Cloning site Green=Tags(s)

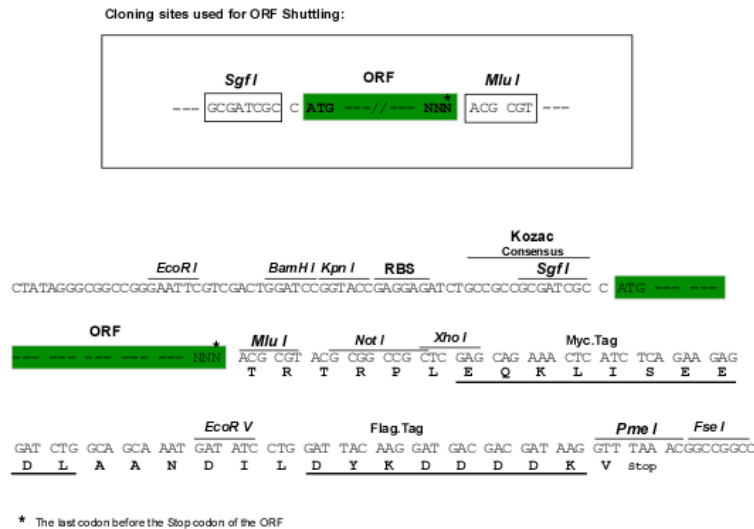
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8023_d11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014857

ORF Size: 2445 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_014857.4](#), [NP_055672.3](#)

RefSeq Size: 2940 bp

RefSeq ORF: 2448 bp

Locus ID: 9910

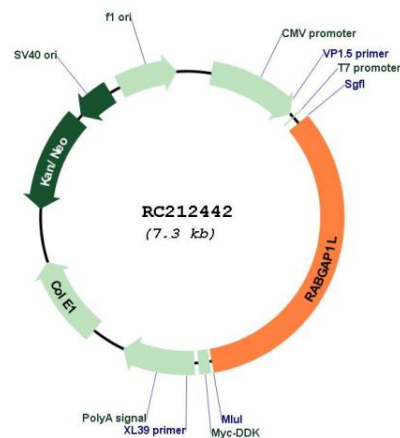
UniProt ID: [Q5R372](#)

Cytogenetics: 1q25.1

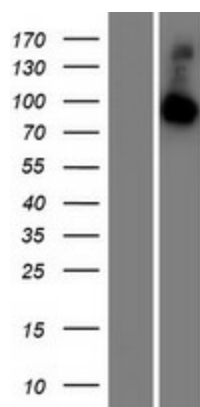
MW: 92.3 kDa

Gene Summary: GTP-hydrolysis activating protein (GAP) for small GTPase RAB22A, converting active RAB22A-GTP to the inactive form RAB22A-GDP (PubMed:16923123). Plays a role in endocytosis and intracellular protein transport. Recruited by ANK2 to phosphatidylinositol 3-phosphate (PI3P)-positive early endosomes, where it inactivates RAB22A, and promotes polarized trafficking to the leading edge of the migrating cells. Part of the ANK2/RABGAP1L complex which is required for the polarized recycling of fibronectin receptor ITGA5 ITGB1 to the plasma membrane that enables continuous directional cell migration (By similarity).[UniProtKB/Swiss-Prot Function]

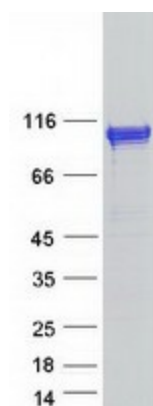
Product images:



Circular map for RC212442



Western blot validation of overexpression lysate (Cat# [LY414985]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212442 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RABGAP1L protein (Cat# [TP312442]). The protein was produced from HEK293T cells transfected with RABGAP1L cDNA clone (Cat# RC212442) using MegaTran 2.0 (Cat# [TT210002]).