

Product datasheet for **RG233900**

RABGAP1L (NM_001243765) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RABGAP1L (NM_001243765) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RABGAP1L
Synonyms:	HHL; TBC1D18
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG233900 representing NM_001243765 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAAGAAGGGGTGCCCTGCCAGCCCCAGCTGCTAAGCTCACACCTCCTGTCAAAAAGTCCCAGGACA
 TGCACGACGAGAGGAGCAAGCTGGTGAATGAGTATGCGTGTGAGTGTGGAACCTCTGGGGATGGGGCA
 TCGTCTGTTTGTGCTCGGCTTCTGGCGACCTCAAAGGAAGACCTTCTGCAGGCTGATTTTGAAGGTGCT
 TTAAGTTCTTTAGAGTTCAGCTTCCAAGAGATACAGGGCAGAGGAAAATGCAAGAAGACTGATGGAGC
 AGGCTTGCAATATTAAGTACCAACCAAGAAGCTGAAGAAATATGAGAAAGAATATCAGACAATGCGAGA
 GAGTCAGCTGCAACAGGAAGACCAATGGATAGATACAAGAGGGAGAACCGAAGATTACAGGAGGCCAGC
 ATGAGGTTGGAACAAGAGAATGATGACCTTGCCCATGAACTAGTAACAAGCAAAATTGCTCTACGGAATG
 ACTTGATCAGGCAGAAGACAAGGCAGATGTGTTGAATAAAGAGCTCCTTTTGACCAACAGAGGCTGGT
 GGAGACTGAAGAGGAGAAGAGGAAGCAAGAGGAAGAGACTGCCAGCTAAAGAAGTCTTCAGGAAACAG
 CTAGAGAAGGCAGAATATGAAATAAAGAAGACTACAGCTATCATTGCTGAGTATAACAGATCTGTTTCGC
 AGTTGAGTACCAGGCTGGAGAAACAGCAAGCAGCCAGCAAGGAGGAGCTGGAAGTGGTAAAGGTAAGAT
 GATGGCATGCAAACTGCAGTGACATTTTCAGCAAGGAGGCTGCTTTGAACTAGCAGCCACAGGCAGA
 GAGGACCAGGGAATTGAAACAGATGATGAGAAGGACTCACTTAAGAAGCAGCTGAGAGAGATGGAAGTGG
 AACTGGCACAAACCAAACTGCAGTTGGTGGAGGCCAAGTGTAAATTTCAGGAACCTGAACATCAGAGAGG
 AGCCCTTATGAATGAAATCCAAGCTGCGAAAACTCTTGTTTAGCAAAACCCTGAAGTCTATCAAAACG
 GCCACGGGACCCAGCCATTGCAGCCAGCACCGGTCAACCAGCCACCCAAGGAGAGCACACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >RG233900 representing NM_001243765
 Red=Cloning site Green=Tags(s)

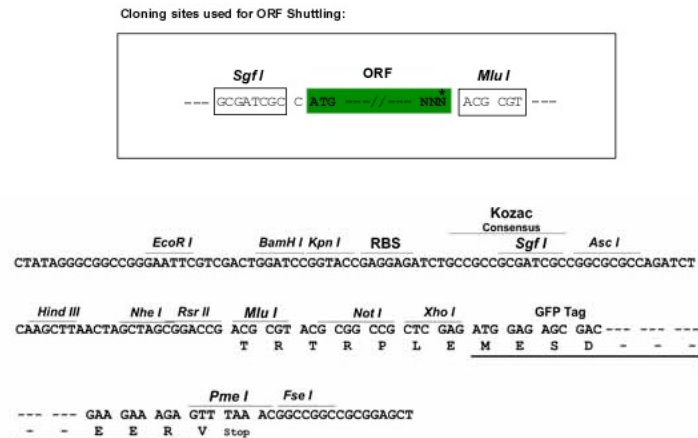
MEEGVPCPAPAAKLTPPVKKSQDMHDERSKLVNEYACRVLELLGMGHRLLFVPRLLATSKEDLLQADFEGA
 LKFFRVQLPKRYRAEENARRLMEQACNIKVPYTKKLKKYEKEYQTMRESQLQQEDPMDRYKRENRRLQEAS
 MRLEQENDDLAHELVTSKIALRNDLDQAEDKADVLNKKLLTKQRLVETEEKRRKQEEETAQLKEVFRKQ
 LEKAEYEIKKTTAIIAEYKQICSQLSTRLEKQQAASKEELEVVGKMMACKHCSDIFSKEGALKLAATGR
 EDQGIETDDEKDSLKKQLREMELELAQTKLQLVEAKCKIQELEHQRGALMNEIQAAKNSWFSKTLNSIKT
 ATGTQPLQPAPVTQPPKEST

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001243765

ORF Size: 1110 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.

RefSeq: [NM_001243765.2](#)

RefSeq Size: 6874 bp

RefSeq ORF: 1113 bp

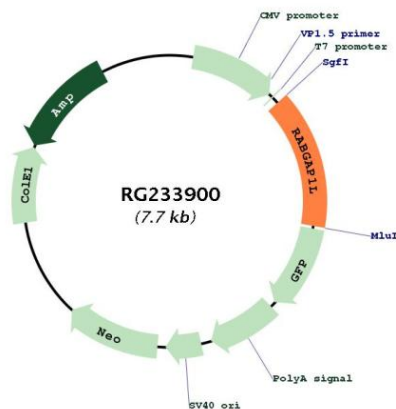
Locus ID: 9910

UniProt ID: [Q5R372](#)

Cytogenetics: 1q25.1

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 RG233900