

Product datasheet for **RG210414**

RAB11 FIP2 (RAB11FIP2) (NM_014904) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAB11 FIP2 (RAB11FIP2) (NM_014904) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RAB11 FIP2
Synonyms:	nRip11; Rab11-FIP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG210414 representing NM_014904
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGATGCTGTCCGAGCAAGCCAAAAGTGGTTTCCAACCCACGTGCAGGTCACAGTGCTCCAAGCCAAAG
 ATCTGAAGCCAAAAGGCCAAAAGTGGTACCAATGACACATACACTATAATTCAGCTGGGCAAGGAAAAGTA
 CTCACCTCTGTAGCTGAGAAAACCTTGTAGCCAGTTTGAAGGAGGAGGCCTCTTTCGAGCTACCTGGA
 TTGCTAATTCAGGGAAGTCCAGAGAAATACATTCTTTTCTTATAGTTATGCACAGGTCCTGGTGGGTC
 TGGATAAATTTTAGGGCAGGTGGCAATCAATCTCAATGACATCTTTGAGGACAAACAAAGAAGGAAAAC
 AGAGTGGTTTAGATTAGAATCCAAACAAGGAAAACGAATCAAAAACAGGGGTGAGATAAAGGTCAATATT
 CAGTTTATGAGGAACAATATGACCGCAAGTATGTTTGACTTATCAATGAAGGACAAAACAGATCTCCTT
 TTGCAAAGTTAAAAGATAAGATGAAGGGTAGAAAAATGATGGAACATTTTCTGATACGTCTTCTGCAAT
 CATTCCAAGTACTCACATGCCCGATGCCAATAGTGAATTTCAAGTGGTAAAACAGATGAAATCCAAA
 CCAAAAAAGCCTTTTCTCTTGGGTCTCAGCGACTCTCGTCAGCGCATTCAATGTCTGATTTATCTGGGT
 CCCATATGTCTTCTGAGAACTGAAGGCTGGCACCATAGGTCAAACACATCTTCTCGGACACCAGTTAGA
 TTCCTTTGGAACAGTTCAGAAAAGTGAAGTCTCAAATCTCCACACAGAAGAACATTAAGCTTTGATACT
 TCTAAAATGAACCAACCTGACAGCATTGTGGATGAAGGTGAATTTGTTTCGGAAGACAAAATGACCCAT
 TTACAAATGTGACTGCTTATTACCCCAAAAATTTGCAACACTGCCAAGGAAGAAAAATCCATTTGAAGA
 AAGCAGCGAAACATGGGACAGCAGCATGAATTTATTTTCAAACCAATTGAAATAAGAAAAGAAAAATAA
 AGAGAGAAAAGGGAGAAAGTTAGCCTGTTTGAAGAGTGACTGGAAAAAAGATAGCAGAAGATCTGATA
 AACTTAAACAATGGGGATCTGATAGCCCTTGACTTGAATCACCTAATGCATTTAGTAAAAATCGCCA
 GGACTATTTTGTATGAGTCAACCAATCCATTTACAGCAAAAATTCAGGGCTTCAAATATAATGCCATCT
 TCAAGTTTTCATATGAGTCCAACAAGCAATGAAGACCTCAGGAAAATCCCGGACAGCAACCCCTTTGATG
 CCACTGCAGGGTATCGTAGTCTGACCTATGAAGAGGTTCTACAGGAGCTGGTGAACACAAAAGAACTCT
 TAGGAGGAAAGACACCCACATCCGGAACTCGAGGACTACATCGACAACCTCCTTGTAAAGGTAATGGAA
 GAAACGCCAGTATTCTCAGAGTGCCATATGAACCATCCAGGAAAGCTGGCAAATTTCTAACAGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG210414 representing NM_014904
 Red=Cloning site Green=Tags(s)

MMLSEQAQKWFPTHVQVTVLQAKDLKPKGKSGTNDTYTIIQLGKEKYSTSVAEKTLEPVWKEEASFELPG
 LLIQGSPEKYILFLIVMHRSLVGLDKFLGQVAINLNDIFEDKQRRKTEWFRLESKQGKRIKNRGEIKVNI
 QFMRNMTASMFDSLMDKTRSPFAKLKDKMKGRKNDGTFSDTSSAIIPSTHMPDANSEFSSGEIQMKSK
 PKKPFLLGPQRLSSAHMSDLSGSHMSSEKLKAGTIGQTHLLGHQLDSFGTVPEAGSLKSPHRRTLSFDT
 SKMNQPDIVDEGELCFGRQNDPFTNVTASLPQKFATLPRKKNPFEESEETWSSMNLFSKPIEIRKENK
 REKREKVSLEFVVTGKKDSRRSDKLNNGGSDSPCDLKSPNAFSENQDYFDYESTNPFTAKFRASNIMPS
 SSFHMSPTSNEDLRKIPDSNPFDATAGYRSLTYEEVLQELVKHKELLRRKDTHIRELEDYIDNLLVRVME
 ETPSILRVPEPSRKAGKFSNS

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_014904

ORF Size: 1536 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_014904.1](#), [NP_055719.1](#)

RefSeq Size: 6059 bp

RefSeq ORF: 1539 bp

Locus ID: 22841

UniProt ID: [Q7L804](#)

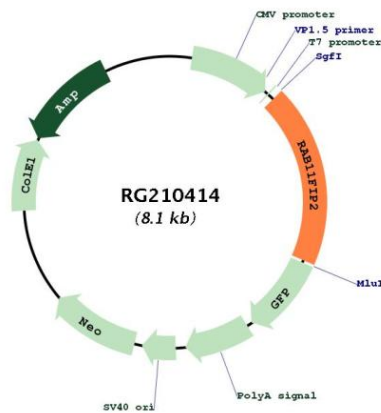
Cytogenetics: 10q26.11

Domains: C2

Protein Pathways: Endocytosis

Gene Summary: A Rab11 effector binding preferentially phosphatidylinositol 3,4,5-trisphosphate (PtdInsP3) and phosphatidic acid (PA) and acting in the regulation of the transport of vesicles from the endosomal recycling compartment (ERC) to the plasma membrane. Involved in insulin granule exocytosis. Also involved in receptor-mediated endocytosis and membrane trafficking of recycling endosomes, probably originating from clathrin-coated vesicles. Required in a complex with MYO5B and RAB11 for the transport of NPC1L1 to the plasma membrane. Also acts as a regulator of cell polarity. Plays an essential role in phagocytosis through a mechanism involving TICAM2, RAC1 and CDC42 Rho GTPases for controlling actin dynamics.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG210414