

Product datasheet for **MG226056**

Rab11fip2 (NM_001033172) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rab11fip2 (NM_001033172) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rab11fip2
Synonyms:	4930470G04Rik; A830046J09Rik; AW558126; Nrip11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG226056 representing NM_001033172
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGATGCTGTCTGAGCAAGCCAAAAGTGGTTTCCAACCCACGTGCAGGTCACAGTGCTCCAAGCTAAAG
 ATCTGAAGCCAAAAGGCCAAAAGTGGTACCAATGACACATACACCATAATTCAGTTGGGCAAAGAGAAGTA
 TTCTACATCTGTAGCAGAGAAAACCTGGAGCCGGTCTGGAAGGAGGAGGCCTCCTTTGAGCTGCCTGGG
 TTGCTCATGCAGGGTAGTCCGGAGAAAATACATTCTTTTTCTTATAGTGATGCACAGGTCCTGGTGGGAC
 TGGATAAGTTTTAGGGCAGGTGGCAATCAATCTCAATGACATCTTTGAGGACAAACAAAGAAGGAAAAC
 AGAGTGGTTTAGATTAGAATCCAAACAAGGAAAAAGAATAAAAAACAGGGGTGAGATAAAGGTCAATATT
 CAATTTATGAGGAACAACATGACAGCAAGCATGTTTGACTTGCAATGAAGGACAAGACGAGATCACCTT
 TTGCAAAATTAAGATAAAGATGAAAGGGAGGAAAAGCGACGGGGTGTCTGATACGCTCTGCCAT
 CGTTCCGAGCACTCACATGCCTGATGCCAATCCTGAGTTTCAAGTGGTAAAATGCAGATGAAATCCAAA
 CCAAAAAAGCCTTTCTTTGGGTCTCAGCGGCTCTCTCTGCCATTGATGTCTGATTAACCTGGGT
 CCCACTTATCTTCTGAGAAGCTGAAGTCCAGCACTGTGGGTCCAACACATCTTCTCAGTCGCCAGATAGA
 TTCTTTGGAGTTGTTCCAGAAAGTGAAGTCTCAAGTCTCCACACAGACGAACACTAAGCTTTGATACT
 TCTAAATTGAACCAACCTGGCAGCATTGTGGATGAAGGTGAACACTCTTTTGAAGACAGAGTGACCCAT
 TTACAAATGTGACTGCTTATTACCCAAAAATTTGCAACACTGCCAAGGAAGAAGAATCCATTTGAAGA
 AAGCAGTGAGCCATGGGACAGCAGCATGAATTTATTCTCAAAACCAATTGAAGTCAGGAAAGAAAGTAAG
 AGAGAGAAAAGGGAGAAGGTGAGCCTCTTTGAAAGAGTGACTGGCAAGAGAGATAGCAGGAGACCTGACA
 AGCTGAACAATGGTGGATCTGATAGCCCATGTGACTTGAATCACCTAGTGCTTTTAGTAAAACCGGCA
 GGACTATTTTGAATATGAGTCAACTAACCCGTTTACAGCAAAATTCAGGGCTTCAACTATAATGCCATCT
 TCAAGTTTTATGTGAATCCAACAAGCAGTGAAGACCTCAGGAAAATCCCGGACAACAATCTTTGATG
 CCACGGCTGGGTACCGGAGTCTGACCTACGAAGAGGTGCTGCAGGAGCTGGTGAAGCACAAAGAACTCCT
 TCGGAGGAAGGACACCCATATCCGGGAGCTAGAGGACTACATTGACAACCTCCTCGTCAGGGTGTGGAA
 GAGACACCAGCATCCTGCGAGTGCCCTACGAGCCATCCAGGAAAGCTGTATACACCAGGACCCTTGT
 CACCCGGGCCACCCACCTCTGTGGAGAAGCTACTTCAACCCACTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG226056 representing NM_001033172
 Red=Cloning site Green=Tags(s)

MMLSEQAQKWFPTHVQTVLQAKDLKPKGKSGTNDTYTIIQLGKEKYSTSVAEKTLEPVWKEEASFELPG
 LLMQGSPEKYILFLIVMHRSLVGLDKFLGQVAINLNDIFEDKQRRKTEWFRLESKQGRKIKNRGEIKVNI
 QFMRNMTASMFDSLMDKTRSPFAKLDKMKGRKSDGVFSDTSSAIVPSTHMPDANPEFSSGEMQMKSK
 PKKPFLLGPQRLSSAHSMSDLTGSHLSSEKLSSTVGPHTLLSRQIDSFVVPESGLKSPHRRTLSFDT
 SKLNQPGSIVDEGEHSFGRQSDPFTNVTASLPQKFATLPRKKNPFEESEPWDSSMNLFSKPIEVRKESK
 REKREKVSLEFRVTGKRDSRRPDKLNNGGSDSPCDLKSPSAFSENQDYFEYESTNPFTAKFRASSTIMPS
 SSFHVNPSTSEDLRKIPDNNPFDATAGYRSLTYEEVLQELVKHKELLRRKDTHIRELEDYIDNLLVRVME
 ETPSILRVPEPSRKAVYTQDHLSPGPPHLCGEATSTHS

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001033172

ORF Size: 1587 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_001033172.3](#), [NP_001028344.2](#)

RefSeq Size: 5304 bp

RefSeq ORF: 1590 bp

Locus ID: 74998

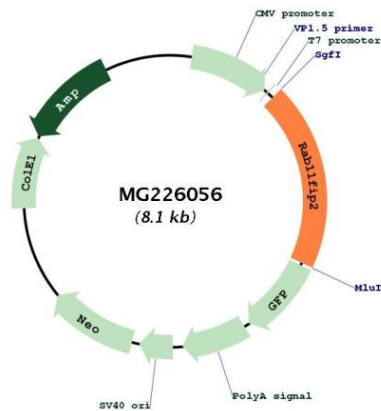
UniProt ID: [G3XA57](#)

Cytogenetics: 19 D3

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 MG226056