

Product datasheet for **MG226060**

Rab11fip2 (NM_001164367) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rab11fip2 (NM_001164367) 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)
ORF Nucleotide Sequence: >MG226060 representing NM_001164367
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGGAACAACATGACAGCAAGCATGTTTGACTTGTCATGAAGGACAAGACGAGATCACCTTTTGCAA
 AATTAAGATAAGATGAAAGGGAGGAAAAGCGACGGGTGTTTTCTGATACGTCCTCTGCCATCGTTCC
 GAGCACTCACATGCCTGATGCCAATCCTGAGTTTTCAAGTGGTGAATGCAGATGAAATCCAAACCAAAA
 AAGCCTTTCTTTGGGCCTCAGCGGCTCTTCTGCCATTGATGTCTGATTTAACTGGTCCCCT
 TATCTTCTGAGAAGCTGAAGTCCAGCACTGTGGTCCAACACATCTTCTCAGTCGCCAGATAGATTCCTT
 TGGAGTTGTTCCAGAAAGTGAAAGTCTCAAGTCTCCACACAGACGAACACTAAGCTTTGACTTCTAAA
 TTGAACCAACCTGGCAGCATTGTGGATGAAGGTGAACACTCTTTTGAAGACAGAGTGACCCATTTACAA
 ATGTGACTGCTTCATTACCCAAAAATTTGCAACACTGCCAAGGAAGAAGATCCATTTGAAGAAAGCAG
 TGAGCCATGGGACAGCAGCATGAATTTATTCTCAAACCAATTGAAGTCAGGAAAGAAAGTAAGAGAGAG
 AAAAGGGAGAAGGTGAGCCTCTTTGAAAGAGTGACTGGCAAGAGAGATAGCAGGAGACCTGACAAGCTGA
 ACAATGGTGGATCTGATAGCCATGTGACTTGAATCACCTAGTGCTTTTAGTAAAACCGGCAGGACTA
 TTTTGAATATGAGTCAACTAACCCGTTTACAGCAAAATTCAGGGCTTCACTATAATGCCATCTTCAAGT
 TTTGATGTGAATCCAACAAGCAGTGAAGACCTCAGGAAAATCCCGGACAACAATCTTTTCGATGCCACGG
 CTGGGTACCGGAGTCTGACCTACGAAGAGGTGCTGCAGGAGTGGTGAAGCACAAAGAAGTCTTCGGAG
 GAAGGACACCCATATCCGGGAGCTAGAGGACTACATTGACAACCTCCTCGTCAGGGTGATGGAAGAGACA
 CCCAGCATCTGCGAGTGCCCTACGAGCCATCCAGAAAAGCTGGCAAGTTCACCAATAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG226060 representing NM_001164367
 Red=Cloning site Green=Tags(s)

MRNNMTASMFDL SMKDKTRSPFAKLKDKMKGRKSDGVFSDTSSAIVPSTHMPDANPEFSSGEMQMKSKPK
 KPFLLPQRLSSAHSMSDLTGSLSSEKLSSTVGPHTLLSRQIDSFVVPEVSGSLKSPHRRTLSFDTSK
 LNQPFSIVDEGEHSFGRQSDPFTNVTASLPQKFATLPRKKNPFEESSPEWDSMNLFSKPIEVRKESKRE
 KREKVSLEFERTGKRDSRRPDKLNNGGSDSPCDLKSPSAFSENQDYFEYESTNPFATKFRASIMPSS
 FHVNPTSSEDLRKIPDNNPFDATAGYRSLTYEEVLQELVKHKELLRRKDTHIRELEDYIDNLLVRVMEET
 PSILRVPEPSRKAGKFTNS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001164367

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_001164367.1](#), [NP_001157839.1](#)

RefSeq Size: 5373 bp

RefSeq ORF: 1113 bp

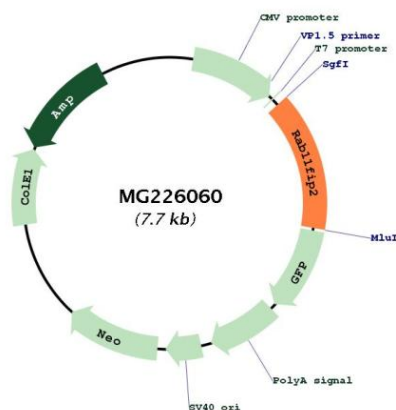
Locus ID: 74998

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 MG226060