

Product datasheet for **MG219869**

Rufy1 (NM_172557) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rufy1 (NM_172557) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rufy1
Synonyms:	3000002E04Rik; Rabip4; ZFYVE12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG219869 representing NM_172557
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCGCCCGCGGAGAATGCCCGCGGGCGGAGGATTCGAGCCGGAGCCGGAGCGGGAGCCGGAGT
 CCGAGCCGGGGCCGGAGCCTGAGCCCAAGCAGGCCTAGAGTCCGGGGAAGCGTTTCGAGATCGTGGACCG
 GAGCCAGCTGCCGAGTCCCGGCGAGCTGCGGAGTGCCTCGCGCCCTCGAGTGGCCGACAGCTGGTGGCG
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 CCGCGGGGCTGGGAGACGGCGGGCGGGGAGCGCGCAGCTTCCAAAGGCCAGATGATGGAGGAGCG
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 TGAAGTCAAGAAGAGTTTCATTGGCCAAAATAAGTCTTTCTTTGGTCTTTGGAGCTGGTGGAAAACT
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 GGCAGAGCGTGGCTTTATCTTGCTCTCATGCAAAAAGAACTGGCAGATTATCTGAAAAGTCCATAGACA
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 GGGTCTGCTGGTGGGACTCAACGTTCTGGATGCCAACCTCTGCTTAAAGGGAGAAGACTTGGATTCTCAG
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 CAAAGACAAGCTCTCCAGAGAGAACTACAGCGTGAGAAAGACACCTCTTGTCTGCTCCAGACGGAGCTGC
 AGCAAGTGAAGGCTGAAGAAGGAGCTGCGGGAGCTCCAAGACGAGAAGGCAGAGTTACGGAAGGTCTG
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 AGTGTGAGAAGGACTTCTCCATTTCTCGGAGGAAGCACCCTGCCGAACTGTGGCCACATTTTCTGCAA
 CACCTGCTTAGCAACGAGCTGGCCCTGCCCTCCTACCCTAAGCCAGTGCCTGTGTGTGACAGCTGCCAT
 ACCCTGCTACTGCAGCGCTGCTCCTCCACTGCCTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG219869 representing NM_172557
Red=Cloning site Green=Tags(s)

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MAARGECRRAGQDSEPEPEREPESEPGPEPEPQAGLESGEAFEIVDRSQLPSPGELRSASRPRVADSWSA
PILTLARRATGNLSASCGSALRAAAGLDGGGGGERAASKQMMEERANLMHMMKLSIKVLLQSALSLGR
SLDADYAPLQQFFVVMHCLKHGLKVKKSF IGQNKSF FGP LEL VEKLCPEASDIATSVRNLPELKTAVGR
GRAWLYLALMOKKLADYLKVLIDNKQLLESEFYEPALMMEEEGMVIVGLLVGLNVLDANLCLKGEDLDSQ
VGVIDFSLCLKDAQDLDSGREHERITDVL DQKNYVEELNRHLSCTVGD LQTKIDGLEKTN SKLQEEL SAA
TDRICSLQKEQQQLREQNEVIRERSEKSV EITKQDTKVELETKYQTRQGLDEMYS DVWKQLKEEKVRLE
LEKELELQIGMKTEMIAMKLEKDTHEKQDTLVALRQQLEEVKAINLQMFHKVQSAESSLQQKNEAIAS
FEGKTTQVMSMKQMEERLQQAERARQAAEERSHKLQQELSGRGSALQLQLSQLRDQCSGLEKELKSEKE
QRQALQRELQREKDTSCLLQTELQQVEGLKKELELQDEKAE LRKVC EEQE QALQEMGLHL SQSKLMED
IKEV NKAL KGHTWLKDDEATHCKQCEKDF SISRKHHCRCNGHIFCNTCSSNELALPSYPKPV RVCD SCH
TLLLQRCSTAS
    
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_172557

ORF Size: 2136 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_172557.3](#)

RefSeq Size: 2657 bp

RefSeq ORF: 2139 bp

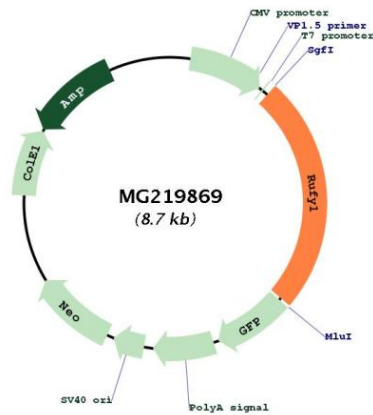
Locus ID: 216724

UniProt ID: [Q8BIJ7](#)

Cytogenetics: 11 B1.3

Gene Summary: Binds phospholipid vesicles containing phosphatidylinositol 3-phosphate and participates in early endosomal trafficking.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG219869