

Product datasheet for **MC216757**

Rufy4 (NM_001034060) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rufy4 (NM_001034060) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rufy4
Synonyms:	F930048N03Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC216757 representing NM_001034060
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGTTCATATGCTCACAGGACAAGCTGAAGACCTCACTAGGAAAAGTTCGTGCCTTTATCCGACTCT
 GCCTTGCCCGAGGCCAGCTGGCTGAGTCGATGCAGCTGTGCCTCCTGAACCCACAACCTACCAGGGAATG
 GTATGGCCCTCGGAGCCCTCTGTTGTGCCTGAGCTCCAGGAAGACATCTTGACTCTCTATGCCCTC
 AATGGAGTTGCCTTCAACTTGGACCTGCAGCGGCCAGACCTGGATGAAGCCTGGCCCATGTTCTCAGAGT
 CCCGCTGTTCCAGTCCCAGCCGACCGGAAAAGAAGACCCGGGAAACCCAAAGTTTTCCAGAGGAGGT
 GAGATGCTCCAGGGGAGAGCAGCTGCAGGAACCAGACACTGGAGGAACCAGCTGTCTGCAGGATGCAACC
 AGAGAAGACCGCACACCTGACCTCTGTAACCCCTTGCAGCCAAGCCATCTTCCCACCTTTCTGGAAGAGA
 AGAGGGAGGATCCAGAAGCCTCAGTTGTCCCCAGAGCACTTGGGAAACAGAAAGGAAGGATTTACAGT
 AGACCAGAAGGATGGAGGCCAAAGCCAGGAAATTCCTGAAAACCTAACAGCCAGCATCCAGCAACAG
 AGGAGCAGGGCTAAGGATGTTAAAATGCAGCTGACAGGAAGGAAAGTTGAAGGAAAAGGAAGTCTGTCCG
 GGACAGAAGATCAGAGAACAACAGAAGGGATCCAGAAAAGGCGAGCAGATTGGGACCTTGGCCAGGGGCT
 GATGGCCCCCGGTCTTACGGGAAGAGAAGATGCAGAGTTAGGATACAGGTGTGAGTGAATCAGCCTGAT
 GTTCTCAGGCAATCCTGGTCTTGGGAACAAAGAAAAGTTCTCCACAGAGAAGCCACAAGAGTGGACAG
 GAGTGACCAGTGGAAACATGCAGGAGGATGGGTGAGAAGTGCCTTGCAGCAGGAGGTGATCAAGGACCC
 TGGGTATGGGCTCCAGCTGGCAAAGGAACAGGCCAGTCCAGGAGCAGCTGCGGCCACAGGAAGCAGAA
 CTTCAGGCGCTCCAGGAGCAGCTCAGCAGGTGTCAAAAAGAAAGGCCCTGTTGCAAGTGAAGCTGGAGC
 AGAAGCAGCAGGAGGCTGAGAGGAGGGACGCCATGTATCAGACAGAGCTTGAAGGCGAGAGGGACCTGGT
 CCAGGCCATGAAAAGGAGGGTGTGGAAGTGCATCCATGAGAAGGACCTCAGTGGCAGAGACTCCAGCAG
 CTGTCTACTGTGGCCCTGGACACTGCATAGGCTGCAACAAGGTCTTACAGCGTCTGTCTCGCGGTATC
 CTTGCAGGCTCTGTGGAGGCTGGTTTGCACGCCTGCTCTGTAGACTACAAGAAGAGAGAGCGTTGCTG
 CCCAACCTGTGCCAGCAGGAAGAAATCCAGGACACCTGA

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_001034060

Insert Size: 1440 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001034060.3](#), [NP_001029232.2](#)

RefSeq Size: 2306 bp

RefSeq ORF: 1440 bp

Locus ID: 435626

UniProt ID: [Q3TYX8](#)

Cytogenetics: 1 C3

Gene Summary: Positively regulates macroautophagy in primary dendritic cells. Increases autophagic flux, probably by stimulating both autophagosome formation and facilitating tethering with lysosomes. Binds to phosphatidylinositol 3-phosphate (PtdIns3P) through its FYVE-type zinc finger.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) uses an alternate splice site and initiates translation at a downstream start codon, compared to variant 1. The encoded isoform (2) has a shorter N-terminus, compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.