

Product datasheet for **MC219141**

Rufy4 (NM_001170641) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rufy4 (NM_001170641) 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: >MC219141 representing NM_001170641
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCAACAACGGGACCATCCTCAAGATCAGCAGAAGCCTGAAAAATGCAGTCTCTGCCATCCTCCAGG
 GATATGGGGACGGGCAGGAGCCAGTGACAGAAACCAGCGCTGAGCTACACAGACTCTGTGGCTGCCTGGA
 GCTGCTACTGCAGTTTGATCAGAAAGAGCAGAGGAGCTTCTGGGGGCCCGGAAGGATTACTGGGACTTC
 CTATTCAGTGCCTTCGACGGCACCGGGGATACACAGAGCAGATGAGCTTCATATGCTCACAGGACAAGC
 TGAAGACCTCACTAGGAAAAGTCTGCTTTATCCGACTCTGCCTTGCCCGAGGCCAGCTGGCTGAGTC
 GATGCAGCTGTGCTCCTGAACCCACAACCTCACCAGGGAATGGTATGGCCCTCGGAGCCCTCTGTTGTGC
 GCTGAGCTCCAGGAAGACATCTGGACTCTCTATGCCCTCAATGGAGTTGCCTTCACTTGGACTGTC
 AGCGGCCAGACCTGGATGAAGCCTGGCCATGTTCTCAGAGTCCCCTGTTCCAGTCCCAGCCGGACCGG
 GAAAAGAAGACCCGGGAAACCCAAAGGTTTTCCAGAGGAGGTGAGATGCTCCAGGGGAGAGCAGCTGCAG
 GAACCAGACACTGGAGGAACAGCTGTCTGCAGGATGCAACCAGAGAAGACCCGCACACCTGACCTCTGTA
 AACCTTGCAGCCAAGCCATCTTCCCACCTTCTGGAAGAGAAGAGGGAGGATCCAGAAGCCTCAGTTG
 TCCCCAGAGCACTTGGGAAAACAGAAAGGGAAGGATTTAGCTAGACCAGAAGGATGGAGGCCAAAGCCC
 AGGAAATTCCTGGAAAACCAACAGCCAGCATCCAGCAACAGAGGAGCAGGGCTAAGGATGTTAAAAATGC
 AGCTGACAGGAAGGAAAGTTGAAGGAAAAGGAAGTCTGTCTGGGGCAGAGAAGATCAGAGAACAACAGAAGG
 GATCCAGAAAAGGGCAGCAGATTGGGACCTTGGCCAGGGGCTGATGGCCCCGGTCTTCAGGGAAGAGAA
 GATGCAGAGTTAGGATACAGGTGTGAGTGAATCAGCCTGATGTTCTCAGGCAATCCTGGGTCCTGGGAA
 CAAAGAAAAGTTCTCCACAGAGAAGCCACAAGAGTGGACAGGAGTGACCAGTGGAAACATGCAGGAGGA
 TGGGTGAGAAGTGCCTTGCAGCAGGAGGTGATCAAGGACCCTGGGTATGGGCTCCAGCTGGCAAAGGAA
 CAGGCCAGTGCAGGAGCAGCTGCGGGCACAGGAAGCAGAATTCAGGCGCTCCAGGAGCAGCTCAGCA
 GGTGTCAAAAAGAAAGAGCCCTGTTGCAAGTGAAGCTGGAGCAGAAGCAGCAGGAGGCTGAGAGGAGGGA
 CGCCATGTATCAGACAGAGCTTGAAGGGCAGAGGGACCTGGTCCAGGCCATGAAAAGGAGGGTGTGGAA
 CTGATCCATGAGAAGGACCTTCAGTGGCAGAGACTCCAGCAGCTGTCTACTGTGGCCCTGGACTGCA
 TAGGCTGCAACAAGGTCTTCAGGCGTCTGTCTCGGCGGTATCCTTGCAGGCTCTGTGGAGGCTGGTTTG
 CCACGCTGCTCTGTAGACTACAAGAAGAGAGCGTTGCTGCCAACCTGTGCCAGCAGGAAGAAATC
 CAGGACACCT**GTA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001170641

Insert Size: 1692 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_001170641.1](#), [NP_001164112.1](#)

RefSeq Size: 2336 bp

RefSeq ORF: 1692 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 (1) represents the longer transcript and encodes the longer 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.