

Product datasheet for **MC205326**

Rufy3 (NM_027530) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rufy3 (NM_027530) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rufy3
Synonyms:	2810428M05Rik; 6330416M07Rik; AW455998; AW538594; D5Bwg0860e; Ripx; Rpipx
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC017648
 TCGCAGCTGACTCATCATGTCTGCCCTGACGCCTCCGACTGATATGCCAACCCACCCTGACAAGATC
 ACACAGGCTGCCATGGAGACCATCTACCTTTGCAAATCCGAGTGTCTATGGACGGAGAATGGCTCTGCC
 TTCGGGAGCTGGATGACATCTCCCTTACACCCGACCCAGAGCCGACCCATGAAGATCCCAATTATCTCAT
 GGCTAACGAACGCATGAACCTGATGAACATGGCAAAGCTGAGCATCAAGGGCTTGATTGAATCGGCTCTG
 AATCTGGGGCGGACCCTGGACTCTGACTACGCACCTCTCCAGCAGTTTTTCGTGGTGATGGAACACTGCC
 TGAAACACGGCTTGAAAGCCAAGAAAACCTTTTCTTGGACAAAATAAATCCTTCTGGGGCCCTCTAGAGCT
 GGTGGAGAAGCTTGTTCCAGAAGCTGCAGAAAATAACAGCGAGTGTAAAAGACCTCCAGGACTCAAGACA
 CCAGTTGGCAGAGGAAGAGCCTGGCTTCGGTTGGCATTGATGCAAAAAGAAGCTTTCTGAGTATATGAAAG
 CCTTGATCAATAAGAAGGAACCTTCTCAGTGAGTTCTATGAAGTCAATGCCCTCATGATGGAAGAAGAAGG
 AGCTATTATCGCTGGTCTCCTGGTGGTCTGAATGTCATCGATGCCAATTTCTGCATAAAAGGAGAAGAC
 CTGGACTCTCAGTTGGAGTTATAGATTTTTCGATGTATCTCAAAGATGGAAACAGTAGTAAAGGTAGTG
 AAGGGGATGGACAGATTACTGCGATCCTAGACCAGAAGAACTATGTAGAAGAACTCAACAGACATCTGAA
 TGCAACTGTAAACAACCTTCAGACAAAAGTAGATCTGTTAGAAAAATCCAACACTAAATTGACAGAAGAA
 CTTGCCGTTGCCAACACAGAATTATTACCTTACAAGAAGAAATGGAACGAGTTAAGAAGAAAGCTCCT
 ATCTACTGGAATCCAATCGGAAGGGTCCTAAACAAGACAGAACTGCAGAAGGGCAAGCGCTGAGCGAAGC
 CAGAAAGCATCTAAAGGAGGAGACACAGTTAAGATTGGATGTCGAGAAGGAGCTGGAGCTGCAGATCAGC
 ATGAGGCAGGAGATGGAAGTGGCTATGAAGATGCTGGAGAAGGATGTCTGTGAGAAGCAGGATGCCCTGG
 TGTCTCTCGCGCAGCAGCTGGACGATCTCCGGCTCTTAAGCATGAGCTCGCCTTTAAACTGCAGAGTTC
 AGACCTAGGAGTGAAACAGAAAAGTGAATTAACAGTCGCTTGGAAAGAAAAGACCAATCAGATGGCTGCC
 ACCATTAACAGCTGGAGCAAAGTGAATAACAGTTCGCTTGGAAAGAAAAGACCAATCAGATGGCTGCC
 ATAAACTGATCCCAAAGCACCATTAAACGTTTTGACGTTGGTACCTCACGAATCTGATGTTACAGATTG
 ACTCTAAAAGGAAGAAATCTGAAATTCCTACATTTAAGCTCTGATTCTATATAAAATATCACCAAAAGTT
 GACCTTGAATTTGTTGGACTTAAAGAAAACAATAGGTGGATACATAGGTGGGTGTTGTTGTTGGTTGC
 TGCTGTTTTTCCCTCCCGCACCCCCAGAGTTAGAATTTTGGTATGGATTCTCGTTAAATACCAATAA
 ACTTTGAGAAATATTTCTGAGTTGAACAGTAAATCAAAGACCGTTTCTAGGAAGCCTGGGGACCGGAAG
 CACTGTCTGTGTGCTTGGCAGAAATAGTTCTGTGTAGGAGGGCCTCCGTCCACACCAGCGAGCCTGTTCT
 CCGAAGTGAATGGTGTACAGGTGTACCTGGTGACCCGGGACTCTTCTAAAGTAGCTCTGTCTCTTAGG
 CCATGAGCCCTTCTCTTGACTTCTGTAGGTTAATCAACCCCAAGATAAGGGTTTAGTATTT
 CATTACAGTTCTGTTTTAGTAACCAAGATTGCTTGCAGGTTATTTCTGCCTTAGTGATGTTGGAATAGA
 AGAAAAACAGCATCCTTACATTTCTTTAGAACGTAGAAAACAAAGTAGTGATTAGGTAGCTCTTAACATCA
 CAGAGTGAAGCTTGAGAAACCCCTCTTAACACCGCCATCTTCTACCTCTGCCCTTCTCCGACATCCCAC
 TTACTACTTAGGTAGCTCAGAGAGAACGTCAATAGAAATCCGACGTTACATCTGCCCTGCAGTCTGCT
 GGAATCCCTGAGGCCACAGTGGAGTCTGCCTGTTGTCTTACCTACAGCACTTGCCCAAGAGCTTTGAT
 CACTTTTTCTGTAATGAGAATTTGCTAAATGTTCTGGGAACTAATCTAGTTAATAAAAAAAAAAAAAAA A

Restriction Sites: RsrII-NotI

ACCN: NM_027530

Insert Size: 1410 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:	<ol style="list-style-type: none">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:	BC017648 , AAH17648
RefSeq Size:	2381 bp
RefSeq ORF:	1410 bp
Locus ID:	52822
UniProt ID:	Q9D394
Cytogenetics:	5 43.77 cM
Gene Summary:	<p>Plays a role in the generation of neuronal polarity formation and axon growth (PubMed:24720729). Implicated in the formation of a single axon by developing neurons (PubMed:24720729). May inhibit the formation of additional axons by inhibition of PI3K in minor neuronal processes (By similarity). Plays a role in the formation of F-actin-enriched protrusive structures at the cell periphery (By similarity). Plays a role in cytoskeletal organization by regulating the subcellular localization of FSCN1 and DBN1 at axonal growth cones (PubMed:24720729). Promotes gastric cancer cell migration and invasion in a PAK1-dependent manner (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (5) differs in the 5' UTR and 5' coding region, initiates translation at an alternate start codon and contains an alternate 3' terminal exon, compared to variant 1. It encodes isoform 4, which is shorter and has distinct N- and C-termini, compared to isoform 1. Variants 5 and 6 both encode the same isoform (4).</p>