

Product datasheet for **MC228622**

Rufy3 (NM_001289774) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rufy3 (NM_001289774) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rufy3
Synonyms:	2810428M05Rik; 6330416M07Rik; AW455998; AW538594; D5Bwg0860e; Ripx; Rpipx
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228622 representing NM_001289774
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCAGAGTCGCGCGCCCGCGCGGCTGCTGAAAGTTGCGGCGAAGAGCAGGAGAGGGGCGGGGAGC
 GCGCCCCCTCCGAGCCGCTGGAACCGCGCGGTGCTAGCGCCCGCGCGCGGACCGGGAGGACGAGGCGGG
 GCCCTCGGAGCCGACTCGCCGGTGCCGCCCCCTTCTCCTCCTCTACCCGGGCGATGGAGGCGCGGGC
 TTCACAGCGCGCCGCCACCGCAGCGCGCTGGAGGACCCCGCGCTCGCCGGCTCCCGCTGCCCTTCC
 TGCTGCTGAGCTACCCGAGCGCGGCGAGCGGCGGAGGCAAGCACCATCCCAATTATCTCATGGCTAA
 CGAACGCATGAACCTGATGAACATGGCAAAGCTGAGCATCAAGGGCTTGATTGAATCGGCTCTGAATCTG
 GGGCGGACCCTGGACTCTGACTACGCACCTCTCCAGCAGTTTTTCGTGGTATGGAACACTGCCTGAAAC
 ACGGCTTGAAAGCAAGAAAACCTTTCTTGACAAAATAAATCCTTCTGGGGCCTCTAGAGCTGGTGA
 GAAGCTTGTTCCAGAAGCTGCAGAAATAACAGCGAGTGTAAAAGACCTCCAGGACTCAAGACACAGTT
 GGCAGAGGAAGAGCTGGCTTCGGTTGGCATTGATGCAAAAAGAAGCTTTCTGAGTATATGAAAGCCTTGA
 TCAATAAGAAGGAACTTCTCAGTGAGTTCTATGAAGTCAATGCCCTCATGATGGAAGAAGAGGAGCTAT
 TATCGCTGGTCTCCTGGTGGTCTGAATGTCTATCGATGCCAATTTCTGCATGAAAGGAGAAGACCTGGAC
 TCTCAGTTGGAGTTATAGATTTTTCGATGTATCTCAAAGATGGAACAGTAGTAAAGGTAGTGAAGGGG
 ATGGACAGATTACTGCGATCCTAGACCAGAAGAACTATGTAGAAGAACTCAACAGACATCTGAATGCAAC
 TGTAACAACCTTCAGACAAAAGTAGATCTGTTAGAAAAATCCAACACTAAATTGACAGAAGAACTTGCC
 GTTGCCAAACAAGAATTATTACCTTACAAGAAGAAATGGAACGAGTTAAAGAAGAAAGCTCCTATCTAC
 TGAATCCAATCGGAAGGGTCTTAAACAAGACAGAACTGCAGAAGGGCAAGCGCTGAGCGAAGCCAGAAA
 GCATCTAAAGGAGGAGACACAGTTAAGATTGGATGTCGAGAAGGAGCTGGAGCTGCAGATCAGCATGAGG
 CAGGAGATGGAAGTGGCTATGAAGATGCTGGAGAAGGATGCTGTGAGAAGCAGGATGCCCTGGTGTCTC
 TGCGGCAGCAGCTGGACGATCTCCGGGCTCTTAAAGCATGAGCTCGCCTTAAACTGCAGAGTTTACAGCT
 AGGAGTGAACAGAAAAGTGAATTAACAGTCTGCTTGAAGAAAAGACCAATCAGATGGCTGCCACCATT
 AAACAGCTGGAGCAAAGATTGCGCCAGGCTGAGCGAGGCCCGCAGTCTGCTGAGCTGGACAACCGGCTCT
 TCAAACAGGACTTTGGAGACAAGATCAACAGTCTGCAGCTGGAAGTGGAGGCGCTACCAGGCGAGCGGAC
 TCAGCTGGAGTTAGAAGTGAACAAGAAAAGGAGAGGAAGTCAAAAACAGGGGCACCCAGGGAAGGGG
 GCCGAGAAGCCAGAGCTGCGCATGGATGGGAAGCAGAAATCCAAGAGGAAAACGTTAAACTAAAGAAGC
 CGCTGGAAGAAAGCCACAGGCTTCTGACTACCCTGCAGAGGAACAGGGTCAGCCTTCGCTCTGAAAA
 GCCACAGGTGTGTGAGCTGTGCCAGGAAGCAGACGCCTGACAAAAGAACGTTGTAAGAACTGCAGAGGA
 ACCTTCTGTAACGCTGCACAACAAATGAACTGCCTTCCGTCAGCATCAAGCCTGAGCGAGTGTGCA
 ATCCTTGTACAGCAGCTGATAAAGCAGTACTCCAGCAGCCACCC**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI

ACCN: NM_001289774

Insert Size: 2010 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).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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:	<u>NM_001289774.1, NP_001276703.1</u>
RefSeq Size:	3561 bp
RefSeq ORF:	2010 bp
Locus ID:	52822
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 (1) encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>