

Product datasheet for **MC227957**

Rufy3 (NM_001289777) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rufy3 (NM_001289777) 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: >MC227957 representing NM_001289777
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCTGCCTGACGCCCTCCGACTGATATGCCAACCCACCCTGACAAGATCACACAGGCTGCCATGG
 AGACCATCTACCTTTGCAAATTCGAGTGTCTATGGACGGAGAATGGCTCTGCCTTCGGGAGCTGGATGA
 CATCTCCCTTACACCCGACCCAGAGCCGACCCATGAAGACTCTTGGGAGGATTTGACAGATTTGGTGGAG
 CAAGTGGGTGCTGACCCAGAAGATCCCAATTATCTCATGGCTAACGAACGCATGAACCTGATGAACATGG
 CAAAGCTGAGCATCAAGGGCTTGATTGAATCGGCTCTGAATCTGGGGCGGACCCTGGACTCTGACTACGC
 ACCTCTCCAGCAGTTTTTCTGGTGTATGGAACACTGCCTGAAACACGGCTTGAAAGCCAAGAAAACCTTTT
 CTTGGACAAAATAAATCCTTCTGGGGCCCTCTAGAGCTGGTGGAGAAGCTTGTCCAGAAGCTGCAGAAA
 TAACAGCGAGTGTAAAAGACCTCCAGGACTCAAGACACCAGTTGGCAGAGGAAGAGCCTGGCTTCGGTT
 GGCATTGATGCAAAGAAGCTTTCTGAGTATATGAAAGCCTTGATCAATAAGAAGAACTTCTCAGTGAG
 TTCTATGAAGTCAATGCCCTCATGATGGAAGAAGAAGGAGCTATTATCGCTGGTCTCCTGGTGGGTCTGA
 ATGTCATCGATGCCAATTTCTGCATGAAAGGAGAAGACCTGGACTCTCAGGTTGGAGTTATAGATTTTTTC
 GATGTATCTCAAAGATGGAAACAGTAGTAAAGGTAGTGAAGGGGATGGACAGATTACTGCGATCCTAGAC
 CAGAAGAATAATGTAAGAAGCAACAGACATCTGAATGCAACTGTAACAACCTTCAGACAAAAGTAG
 ATCTGTTAGAAAATCCAACACTAAATTGACAGAAGAAGCTCTACTGGAATCCAATCGGAAGGGTCTCTAA
 CAAGACAGAAGTGCAGAAGGGCAAGCGCTGAGCGAAGCCAGAAAGCATCTAAAGGAGGAGACACAGTTAA
 GATTGGATGTCGAGAAGGAGCTGGAGCTGCAGATCAGCATGAGGCAGGAGATGGAAGTGGATGAAGAT
 GCTGGAGAAGGATGTCTGTGAGAAGCAGGATGCCCTGGTGTCTCTGCGGCAGCAGCTGGACGATCTCCGG
 GCTCTTAAGCATGAGCTCGCCTTTAAACTGCAGAGTTCAGACCTAGGAGTGAAACAGAAAAGTGAATTA
 ACAGTCGCTTGAAGAAAAGACCAATCAGATGGCTGCCACCATTAAACAGCTGGAGCAAAGTGA AAAAGA
 TTTGGTGAACAGGCCAAAGACCTTAAATAGTGCAGCAAATAAACTGATCCCAAAGCACCAT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM_001289777
- Insert Size:** 1464 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:	NM_001289777.1 , NP_001276706.1
RefSeq Size:	3976 bp
RefSeq ORF:	1464 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 (4) 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. Variants 3 and 4 encode the same isoform (3), which is shorter and has distinct N- and C-termini, compared to isoform 1.</p>