

Product datasheet for **RN212245**

Rufy3 (NM_001025127) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rufy3 (NM_001025127) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Rufy3
Synonyms:	Ripx; Singar1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN212245 representing NM_001025127
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCTGCCTGACGCCCTCCGACTGATATGCCAACCCACCCTGACAAGATAACCCAGGCTGCCATGG
 AGACCATCTACCTCTGCAAATTCGGGTGTCTATGGATGGAGAATGGCTCTGCCCTCGAGAGCTGGATGA
 CATCTCCCTTACACCTGACCCAGAGCCTACCCATGAAGATCCTAATTATCTCATGGCTAACGAGCGCATG
 AACCTGATGAACATGGCGAAGCTGAGCATCAAGGGCTTGATTGAGTCGGCTCTGAACCTGGGGCGGACCC
 TGGACTCTGACTACGCACCTCTCCAGCAGTTCTTCGTGGTATGGAACACTGCCTGAAACATGGCTTGAA
 AGCCAAGAAAACCTTTCTGGACAAAATAAGTCCTTCTGGGGTCTCTAGAGCTGGTAGAAAAGCTTGT
 CCAGAAGCTGCAGAGATAACAGCAAGTGTAAAAGATCTCCAGGACTCAAGACACCAGTTGGCAGAGGAA
 GAGCCTGGCTTCGGTTGGCATTAAATGCAAAAAGAGCTTTCTGAGTACATGAAGGCCTTGATCAATAAGAA
 GGAACCTCTCAGTGAGTTCTATGAAGCCAATGCTCTCATGATGGAAGAAGAAGGCCAATTATTGCTGGC
 CTCTGGTCCGGTCTGAATGTCATCGATGCCAATTTCTGCATGAAAGGAGAAGACCTGGACTCTCAGGTTG
 GCGTTATAGACTTTTCAATGTATCTCAAAGATGGGAACAGCAGTAAAGGCAGTGAAGGGGATGGACAGAT
 TACTGCGATTCTGGACCAGAAAACATGTAGAAGAACTCAACAGACATCTGAATGCTACTGTAAACAAC
 CTTTCAGGCAAAAGTAGATGCGTTAGAAAATCCAACACGAAATGACAGAGGAACCTGCGTCGCCAACA
 ACAGAATTATTACCTTACAAGAAGAAATGGAACGGGTTAAGAAGAAAGTTCTTACTACTGGAATCCAA
 TCGGAAGGGTCTAAGCAAGACAGAAGTGCAGAAGGGCAAGCGCTGAGCGAAGCCAGAAAGCATCTAAAG
 GAGGAGACACAGTTACGATTGGACGTTGAAAAGGAGCTGGAGCTGCAGATCAGCATGAGGCAGGAGATGG
 AACTGGCTATGAAGATGCTGGAGAAGATGTCTGTGAGAAGCAGGATGCCCTGGTCCCTGCGGCAGCA
 GCTGGATGATCTCCGAGCTCTTAAACACGAGCTTGCCCTTAAAGCTGCAGAGTTTCAAGACTAGGAGTGAAA
 CAGAAAAGTGAATTAACAGTCGCTTGGAAAGAGAAGACCAATCAGATGGCTGCCACCATTAAACAGCTGG
 AGCAAAGTGAAGAAAGATTGGTGAACAGGCAAGACCTTAAATAGTGCAGCAAATAAACTGATCCCAAA
 ACATCAT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001025127

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:

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_001025127.1](#), [NP_001020298.1](#)

RefSeq Size: 1903 bp

RefSeq ORF: 1410 bp

Locus ID: 360921

UniProt ID: [Q5FVJ0](#)

Cytogenetics: 14p22

Gene Summary: Plays a role in the generation of neuronal polarity formation and axon growth (PubMed:17439943). Implicated in the formation of a single axon by developing neurons (PubMed:17439943). May inhibit the formation of additional axons by inhibition of PI3K in minor neuronal processes (PubMed:17439943). 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 (By similarity). Promotes gastric cancer cell migration and invasion in a PAK1-dependent manner (By similarity).[UniProtKB/Swiss-Prot Function]