

Product datasheet for **MR207512**

Rufy3 (NM_027530) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rufy3 (NM_027530) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rufy3
Synonyms:	2810428M05Rik; 6330416M07Rik; AW455998; AW538594; D5Bwg0860e; Ripx; Rpipx
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207512 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCTGCCTGACGCCTCCGACTGATATGCCAACCCACCCTGACAAGATCACACAGGCTGCCATGG
 AGACCATCTACCTTTGCAAATCCGAGTGTCTATGGACGGAGAATGGCTCTGCCTTCGGGAGCTGGATGA
 CATCTCCCTTACACCCGACCCAGAGCCGACCCATGAAGATCCCAATTATCTCATGGCTAACGAACGCATG
 AACCTGATGAACATGGCAAAGCTGAGCATCAAGGGCTTGATTGAATCGGCTCTGAATCTGGGGCGGACCC
 TGGACTCTGACTACGCACCTCTCCAGCAGTTTTTCGTGGTGTGGAACACTGCCTGAAACACGGCTTGAA
 AGCCAAGAAAACCTTTCTTGACAAAATAAATCCTTCTGGGGCCTCTAGAGCTGGTGGAGAAGCTTGT
 CCAGAAGCTGCAGAAATAACAGCGAGTGTAAAAGACCTCCAGGACTCAAGACACCAGTTGGCAGAGGAA
 GAGCCTGGCTTCGGTTGGCATTGATGCAAAAGAAGCTTTCTGAGTATATGAAAGCCTTGATCAATAAGAA
 GGAACCTCTCAGTGAGTTCTATGAAGTCAATGCCCTCATGATGGAAGAAGAAGGAGCTATTATCGTGGT
 CTCTGGTGGGTCTGAATGTCATCGATGCCAATTTCTGCATAAAAAGGAGAAGACCTGGACTCTCAGTTG
 GAGTTATAGATTTTTCGATGTATCTCAAAGATGGAACAGTAGTAAAGGTAGTGAAGGGATGGACAGAT
 TACTGCGATCCTAGACCAGAAGAACTATGTAGAAGAACTCAACAGACATCTGAATGCAACTGTAACAAC
 CTTCAGACAAAAGTAGATCTGTTAGAAAAATCCAACACTAAATTGACAGAAGAACTTGCCGTTGCCAAC
 ACAGAATTATTACCTTACAAGAAGAAATGGAACGAGTTAAGAAGAAAGCTCCTATCTACTGGAATCCAA
 TCGGAAGGGTCTAAACAAGACAGAAGTGCAGAAGGGCAAGCGCTGAGCGAAGCCAGAAAGCATCTAAAG
 GAGGAGACACAGTTAAGATTGGATGTCGAGAAGGAGCTGGAGCTGCAGATCAGCATGAGGCAGGAGATGG
 AACTGGCTATGAAGATGCTGGAGAAGGATGTCTGTGAGAAGCAGGATGCCCTGGTGTCTCTGCGGCAGCA
 GCTGGACGATCTCCGGGCTCTTAAGCATGAGCTCGCCTTTAAACTGCAGAGTTTCAGACCTAGGAGTGAAA
 CAGAAAAGTGAATTAACAGTCGCTTGGAAAGAAAAGACCAATCAGATGGCTGCCACCATTAAACAGCTGG
 AGCAAAGTAAAAAGATTTGGTGAACAGGCAAAGACCTTAAATAGTGCAGCAAATAAACTGATCCCAAA
 GCACCAT

ACGCGTACGCGGCCGCTCGAGCAGAAAATCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207512 protein sequence
 Red=Cloning site Green=Tags(s)

MSALTPPTDMPPTTDDKITQAAMETIYLCKFRVSMDEWLCLRELDLISLTPDPEPTHEDPNYLMANERM
 NLMNMAKLSIKGLIESALNLRGRLDSYAPLQQFFVMEHCLKHGLKAKKTFLLGQNKSFWGPLELVEKLV
 PEAAEITASVKDLPGLKTPVGRRAWLRLALMQKKLSEYMKALINKKELLSEFYEVNALLMEEEGAIAG
 LLVGLNVIDANFCIKGEDLDSQGVDFSMYLDKGNSSKSEGDGQITAILDQKNYVEELNRHLNATVNN
 LQTKVDLLEKSNTKLTEELAVANNRIITLQEEMERVKEESSYLLESNRKGPQDRTAEGQALSEARKHLK
 EETQLRLDVEKELELQISMRQEMELAMKMLEKDVCEKQDALVSLRQQLDDLRLKHELAFKLSDDLGVK
 QKSELNSRLEEKTNQMAATIKQLEQSEKDLVKQAKTLNSAANKLIPKHH

TRTRPLEQ**KL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_027530

ORF Size: 1410 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_027530.1](#), [NM_027530.2](#), [NM_027530.3](#), [NP_081806.1](#)

RefSeq Size: 4097 bp

RefSeq ORF: 1410 bp

Locus ID: 52822

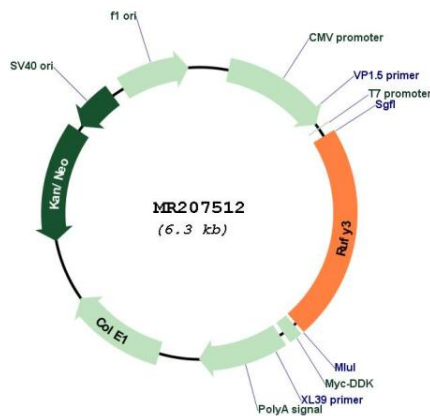
UniProt ID: [Q9D394](#)

Cytogenetics: 5 43.77 cM

MW: 53 kDa

Gene Summary: 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]

Product images:



Circular map for MR207512