

Product datasheet for **MR230348**

Rufy3 (NM_001289775) Mouse Tagged ORF Clone

Product data:

| | |
|--------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Rufy3 (NM_001289775) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Rufy3 |
| Synonyms: | 2810428M05Rik; 6330416M07Rik; AW455998; AW538594; D5Bwg0860e; Ripx; Rpipx |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



[View online »](#)

ORF Nucleotide Sequence:

>MR230348 representing NM_001289775
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCAGAGTCGCCGGCCCGCGCGGCTGCTGAAAGTTGCGGCGAAGAGCAGGAGAGGGGCGGGGAGC
 GCGCCCCCTCCGAGCCGCTGGAACCGCGCGGTGCTAGCGCCCGCGCGCGGACCGGGAGGACGAGGCGGG
 GCCCTCGGAGCCGACTCGCCGGTGCCGCCCCCTTCTTCTCCTCTACCCGGGCGATGGAGGCGCGGGC
 TTCACAGCGCGCCGCCACCGCAGCGCGCTGGAGGACCCGCGCTCGCCGGCTCCCGCTGCCCTTCC
 TGCTGCTGAGCTACCCGAGCGCGGCGAGCGGGCGGAGGCAAGCACCATCCCAATTATCTCATGGCTAA
 CGAACGCATGAACCTGATGAACATGGCAAAGCTGAGCATCAAGGGCTTGATTGAATCGGCTCTGAATCTG
 GGGCGGACCTGGACTCTGACTACGCACCTCTCCAGCAGTTTTTCGTGGTATGGAACACTGCCTGAAAC
 ACGGCTTGAAAGCAAGAAAACCTTTCTTGACAAAATAAATCCTTCTGGGGCCTCTAGAGCTGGTGA
 GAAGCTTGTTCCAGAAGCTGCAGAAATAACAGCGAGTGTAAAAGACCTCCAGGACTCAAGACACCAGTT
 GGCAGAGGAAGAGCCTGGCTTCGGTTGGCATTGATGCAAAAAGAAGCTTTCTGAGTATATGAAAGCCTTGA
 TCAATAAGAAGGAACCTTCTCAGTGAGTTCTATGAAGTCAATGCCCTCATGATGGAAGAAGAAGGAGCTAT
 TATCGCTGGTCTCCTGGTGGTCTGAATGTCTATCGATGCCAATTTCTGCATGAAAGGAGAAGACCTGGAC
 TCTCAGTTGGAGTTATAGATTTTTCGATGTATCTCAAAGATGGAACAGTAGTAAAGGTAGTGAAGGGG
 ATGGACAGATTACTGCGATCCTAGACCAGAAGAACTATGTAGAAGAACTCAACAGACATCTGAATGCAAC
 TGTAACAACCTTCAGACAAAAGTAGATCTGTTAGAAAAATCCAACATAAATTGACAGAAGAACTTCC
 GTTGCCAAACAAGAATTATTACCTTACAAGAAGAAATGGAACGAGTTAAAGAAGAAAGCTCCTATCTAC
 TGAATCCAATCGAAGGGTCTTAAACAAGACAGAACTGCAGAAGGGCAAGCGCTGAGCGAAAGCCAGAAA
 GCATCTAAAGGAGGAGACACAGTTAAGATTGGATGTCGAGAAGGAGCTGGAGCTGCAGATCAGCATGAGG
 CAGGAGATGGAAGTGGCTATGAAGATGCTGGAGAAGGATGCTGTGAGAAGCAGGATGCCCTGGTGTCTC
 TGCGGCAGCAGCTGGACGATCTCCGGGCTCTTAAGCATGAGCTCGCCTTAAACTGCAGAGTTTCCAGCT
 AGGAGTGAACAGAAAAGTGAATTAACAGTCTGTTGGAAGAAAAGACCAATCAGATGGCTGCCACCATT
 AAACAGCTGGAGCAAAGTAAAAAGATTTGGTGAACAGGCAAAGACCTTAAATAGTGCAGCAAATAAAC
 TGATCCCAAAGCACCAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230348 representing NM_001289775
 Red=Cloning site Green=Tags(s)

MAESPAPGAAAESCGEEQERGGERRPSEPLEPRGASARGADREDEAGPSEPDPVAAPFFLLYPGDGGAG
 FTARPPPQRAWTPPSPGSPLPFLLLSYPSGGSGGGKHHPNYLMANERMNLMNAKLKSIKGLIESALNL
 GRTLDSYAPLQQFFVMEHCLKHGLKAKKTFLGQNKSFWGPLELVEKLVPEAAEITASVKDLPGLKTPV
 GRGRAWLRLALMQKKLSEYMKALINKKELLSEFYEVNALLMEEEGAI IAGLLVGLNVIDANFCMKGEDLD
 SQVGVIDFSMYLKDGNSKSGSEGDQITAILDQKNYVEELNRHLNATVNNLQTKVDLLEKSNKTEELA
 VANNRIITLQEEMERVKEESSYLLESNRKGPQDRTAEGQALSEARKHLKEETQLRLDVEKELELQISMR
 QEMELAMKMLEKDVCEKQDALVSLRQQLDDLRLKHELAFKQLSSDLGVKQKSELNSRLEEKTNQMAATI
 KQLEQSEKDLVKAKTLNSAANKLIPKHH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

| | |
|-------------------------------|--|
| ACCN: | NM_001289775 |
| ORF Size: | 1557 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: | <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_001289775.1 , NP_001276704.1 |
| RefSeq Size: | 3729 bp |
| RefSeq ORF: | 1560 bp |
| Locus ID: | 52822 |
| UniProt ID: | Q9D394 |
| Cytogenetics: | 5 43.77 cM |
| MW: | 57.9 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] |