

## Product datasheet for **RC222374**

### NF2 (NM\_181825) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NF2 (NM_181825) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NF2
Synonyms:	ACN; BANF; merlin-1; SCH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC222374 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCCGGGGCCATCGTTCCCGCATGAGCTTCAGCTCTCTCAAGAGGAAGCAACCCAAGACGTTACCCG  
 TGAGGATCGTCACCATGGACGCCGAGATGGAGTTCAATTGCGAGATGAAGTGAAAGGGAAGGACCTCTT  
 TGATTTGGTGTGCCGACTCTGGGGCTCCGAGAAACCTGGTTCTTTGGACTGCAGTACACAATCAAGGAC  
 ACAGTGGCTGGCTCAAATGGACAAGAAGGACTGGATCATGATGTTTCAAAGGAAGAACAGTACCTT  
 TTCACTTCTGGCCAAATTTTATCCTGAGAATGCTGAAGAGGAGCTGGTTCAGGAGATCACACAACATTT  
 ATTCTTCTACAGGTAAGAAGCAGATTTTAGATGAAAAGATCTACTGCCCTCCTGAGGCTTCTGTGCTC  
 CTGGCTTCTACGCCGTCAGGCCAAGTATGGTGACTACGACCCAGTGTTCACAAGCGGGGATTTTGG  
 CCCAAGAGGAATTGCTTCCAAAAGGGTAATAAATCTGTATCAGATGACTCCGGAATGTGGGAGGAGAG  
 AATTACTGCTTGGTACGCAGAGCACCGAGGCCGAGCCAGGGATGAAGCTGAAATGGAATATCTGAAGATA  
 GCTCAGGACCTGGAGATGTACGGTGTGAACTACTTTGCAATCCGGAATAAAAAGGCCACAGAGCTGCTGC  
 TTGGAGTGGATGCCCTGGGGCTTACATTTATGACCCTGAGAACAGACTGACCCCAAGATCTCCTTCCC  
 GTGGAATGAAATCCGAAACATCTCGTACAGTGACAAGGAGTTTACTATTAACCCTGGATAAGAAAATT  
 GATGTCTTCAAGTTTAACTCCTCAAAGCTTCGTGTTAATAAGCTGATTCTCCAGCTATGTATCGGGAACC  
 ATGATCTATTTATGAGGAGAAGGAAAGCCGATTCTTTGGAAGTTCAGCAGATGAAAGCCCAGGCCAGGGA  
 GGAGAAGGCTAGAAAGCAGATGGAGCGGCAGCCCTCGCTCGAGAGAAGCAGATGAGGGAGGAGGCTGAA  
 CGCAGGAGGATGAGTTGGAGAGGAGGCTGCTGCAGATGAAAGAAGAAGCAACAATGGCCAACGAAGCAC  
 TGATCGGCTGAGGAGACAGCTGACCTGTTGGCTGAAAAGGCCAGATCACCGAGGAGGAGGCAAAAAT  
 TCTGGCCAGAAGGCCGAGAGGCTGAGCAGGAAATGCAGCGCATCAAGGCCACAGCGATTTCGCACGGAG  
 GAGGAGAAGCGCCTGATGGAGCAGAAGGTGCTGGAAGCCGAGGTGCTGGCACTGAAGATGGCTGAGGAGT  
 CAGAGAGGAGGGCCAAAGAGGCAGATCAGCTGAAGCAGGACCTGCAGGAAGCACGCGAGGCGAGCGAAG  
 AGCCAAGCAGAAGCTCCTGGAGATTGCCACCAAGCCACGTACCCGCCATGAACCAATTCAGCACCG  
 TTGCCTCCTGACATACCAAGCTTCAACCTCATTGGTGACAGCCTGTCTTTCGACTTCAAAGATACTGACA  
 TGAAGCGCTTTCCATGGAGATAGAGAAAGAAAAGTGAATACATGGAAAAGAGCAAGCATCTGCAGGA  
 GCAGCTCAATGAACTCAAGACAGAAATCGAGGCCCTTGAAGTGAAGAGAGGGAGACAGCTCTGGATATT  
 CTGCACAATGAGAACTCCGACAGGGGTGGCAGCAGCAAGCACAATACCATTAAAAAGCCTCAAGCCCAAG  
 GCAGAAGACCTATCTGCATT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC222374 protein sequence  
 Red=Cloning site Green=Tags(s)

MAGAIASRMSFSSLKRKQPKTFTVRIVTMDAEMEFNCEMKWKGKDLFDLVCRTLGLRETWFFGLQYTIKD  
 TVAWLKMDDKVLHDVSKKEEPVTFHFLAKFYPENAEELVQEITQHLFFLQVKKQILDEKIYCPPEASVL  
 LASYAVQAKYGDYDPSVHKRGFLAQEELLPKRVINLYQMTPEMWEERITAWYAEHRGRARDEAEMEYLKI  
 AQDLEMYGVNYFAIRNKKGTELLLGV DALGLHIYDPENRLTPKISFPWNEIRNISYSDKEFTIKPLDKKI  
 DVFKFNSSKLRVNKLIQLCIGNHDLFMRRRKADSLVQQMKAQAREEKARKQMERQRLAREKQMRREEAE  
 RTRDELERRLLQMKEEATMANEALMRSEETADLLAEKAQITEEEAKLLAQKAAEAQEMQRIKATAIRTE  
 EEKRLMEQKVLAEVLALKMAEESERRAKEADQLKQDLQEAREARRAKQLLEIATKPTYPPMNP  
 LPPDIPSFNLIIGDSL SFDKDTDMKRLSMEIEKEKVEYMEKSKHLQEQLNELKTEIEALKLKERETALDI  
 LHNENSDRGSSKHNTIKKPAQGRRPICI

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8068\\_f12.zip](https://cdn.origene.com/chromatograms/mk8068_f12.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_181825

**ORF Size:** 1770 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\\_181825.3](#)

**RefSeq Size:** 3126 bp

**RefSeq ORF:** 1773 bp

**Locus ID:** 4771

UniProt ID: [P35240](#)

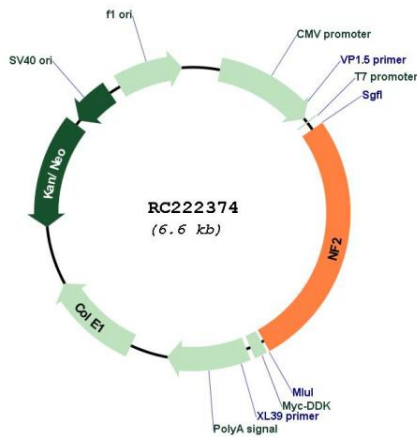
Cytogenetics: 22q12.2

Protein Families: Druggable Genome

MW: 69.1 kDa

**Gene Summary:** This gene encodes a protein that is similar to some members of the ERM (ezrin, radixin, moesin) family of proteins that are thought to link cytoskeletal components with proteins in the cell membrane. This gene product has been shown to interact with cell-surface proteins, proteins involved in cytoskeletal dynamics and proteins involved in regulating ion transport. This gene is expressed at high levels during embryonic development; in adults, significant expression is found in Schwann cells, meningeal cells, lens and nerve. Mutations in this gene are associated with neurofibromatosis type II which is characterized by nervous system and skin tumors and ocular abnormalities. Two predominant isoforms and a number of minor isoforms are produced by alternatively spliced transcripts. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RC222374