

Product datasheet for **RC218738**

NF2 (NM_016418) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NF2 (NM_016418) 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:

>RC218738 representing NM_016418
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGGGGCCATCGTTCCCGCATGAGCTTCAGCTCTCTCAAGAGGAAGCAACCCAAGACGTTACCCG
 TGAGGATCGTCACCATGGACGCCGAGATGGAGTTCAATTGCGAGATGAAGTGAAAGGGAAGGACCTCTT
 TGATTTGGTGTGCCGACTCTGGGGCTCCGAGAAACCTGGTTCTTTGGACTGCAGTACACAATCAAGGAC
 ACAGTGGCTGGCTCAAATGGACAAGAAGGACTGGATCATGATGTTTCAAAGGAAGAACAGTACCTT
 TTCACTTCTGGCCAAATTTTATCCTGAGAATGCTGAAGAGGAGCTGGTTCAGGAGATCACACAACATTT
 ATTCTTCTACAGGTAAGAAGCAGATTTTAGATGAAAAGATCTACTGCCCTCCTGAGGCTTCTGTGCTC
 CTGGCTTCTACGCCGTCAGGCCAAGTATGGTGACTACGACCCAGTGTTCACAAGCGGGGATTTTGG
 CCCAAGAGGAATTGCTTCCAAAAGGGTAATAAATCTGTATCAGATGACTCCGGAATGTGGGAGGAGAG
 AATTACTGCTTGGTACGCAGAGCACCGAGGCCGAGCCAGGGATGAAGCTGAAATGGAATATCTGAAGATA
 GCTCAGGACCTGGAGATGTACGGTGTGAACTACTTTGCAATCCGGAATAAAAAGGCCACAGAGCTGCTGC
 TTGGAGTGGATGCCCTGGGGCTTACATTTATGACCCTGAGAACAGACTGACCCCAAGATCTCCTTCCC
 GTGGAATGAAATCCGAAACATCTCGTACAGTGACAAGGAGTTTACTATTAACCCTGGATAAGAAAATT
 GATGTCTTCAAGTTTAACTCCTCAAAGCTTCGTGTTAATAAGCTGATTCTCCAGCTATGTATCGGGAACC
 ATGATCTATTTATGAGGAGAAGGAAAGCCGATTCTTTGGAAGTTCAGCAGATGAAAGCCCAGGCCAGGGA
 GGAGAAGGCTAGAAAGCAGATGGAGCGCCAGCCCTCGCTCGAGAGAAGCAGATGAGGGAGGAGGCTGAA
 CGCAGGAGGATGAGTTGGAGAGGAGGCTGCTGCAGATGAAAGAAGAAGCAACAATGGCCAACGAAGCAC
 TGATCGCGTCTGAGGAGACAGTGAACGTTGGCTGAAAAGGCCAGATCACCGAGGAGGAGGCAAAAAT
 TCTGGCCCAAGGCCCGCAGAGGCTGAGCAGGAAATGCAGCGCATCAAGGCCACAGCGATTTCGCACGGAG
 GAGGAGAAGCGCCTGATGGAGCAGAAGGTGCTGGAAGCCGAGGTGCTGGCACTGAAGATGGCTGAGGAGT
 CAGAGAGGAGGGCCAAAGAGGCAGATCAGCTGAAGCAGGACCTGCAGGAAGCACGCGAGGCGAGCGAAG
 AGCCAAGCAGAAGCTCCTGGAGATTGCCACCAAGCCACGTACCCGCCATGAACCAATTCAGCACCG
 TTGCCTCCTGACATACCAAGCTTCAACCTCATTGGTGACAGCCTGTCTTTCGACTTCAAAGATACTGACA
 TGAAGCGCTTTCATGGAGATAGAGAAAGAAAAGTGAATACATGGAAAAGAGCAAGCATCTGCAGGA
 GCAGCTCAATGAACTCAAGACAGAAATCGAGGCCCTTGAAGTGAAGAGAGGGAGACAGCTCTGGATATT
 CTGCACAATGAGAACTCCGACAGGGGTGGCAGCAGCAAGCACAATACCATTAAAAAGCCTCAAGCCCAAG
 GCAGAAGACCTATCTGCATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC218738 representing NM_016418
 Red=Cloning site Green=Tags(s)

MAGAIASRMSFSSLKRKQPKFTFVRIVTMDAEMEFNCEMKWKGDLDLVCRTLGLRETWFFGLQYTIKD
 TVAWLKMDDKVLHDVSKKEEPVTFHFLAKFYPENAEELVQEITQHLFFLQVKKQILDEKIYCPPEASVL
 LASYAVQAKYGDYDPSVHKRGFLAQEELLPKRVINLYQMTPEMWEERITAWYAEHRGRARDEAMEYLKI
 AQDLEMYGVNYFAIRNKKGTELLLVDALGLHIYDPENRLTPKISFPWNEIRNISYSDKEFTIKPLDKKI
 DVFKFNSSKLRVNKLIQLCIGNHDLFMRRRKADSLVQQMKAQAREEKARKQMERQRLAREKQMRREEAE
 RTRDELERRLLQMKEEATMANEALMRSEETADLLAEKAQITEEEAKLLAQKAAEAQEMQRIKATAIRTE
 EEKRLMEQKVLAEVLALKMAEESERRAKEADQLKQDLQEAREARRAKQLLEIATKPTYPPMNP
 LPPDIPSFNLIIGDSL SFDKDTDMKRLSMEIEKEKVEYMEKSKHLQEQNLKTEIEALKLKERETALDI
 LHNENSDRGGSSKHNTIKKPAQGRRPICI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8068_f12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016418

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_016418.5](#), [NP_057502.2](#)

RefSeq Size: 6091 bp

RefSeq ORF: 1773 bp

Locus ID: 4771

UniProt ID: [P35240](#)

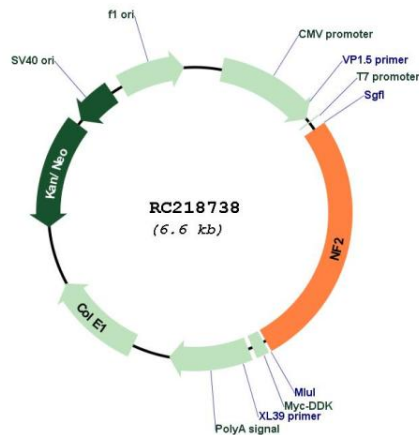
Cytogenetics: 22q12.2

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 RC218738