

Product datasheet for **RC222433**

NF2 (NM_181828) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NF2 (NM_181828) 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:

>RC222433 representing NM_181828
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCGGGGCCATCGCTTCCCGCATGAGCTTCAGCTCTCTCAAGAGGAAGCAACCCAAGACGTTACCCG
 TGAGGATCGTCACCATGGACGCCGAGATGGAGTTCAATTGCGAGGACTGGATCATGATGTTTCAAAGGA
 AGAACCAGTCACCTTTCACTTCTTGCCAAATTTATCCTGAGAATGCTGAAGAGGAGCTGGTTCAGGAG
 ATCACACAACATTTATTCTTCTTACAGGTAAGAAGCAGATTTTAGATGAAAAGATCTACTGCCCTCTG
 AGGCTTCTGTGCTCCTGGCTTCTACGCCGTCAGGCCAAGTATGGTGACTACGACCCAGTGTTCAAA
 GCGGGGATTTTGGCCCAAGAGGAATTGCTTCCAAAAAGGTAATAAATCTGTATCAGATGACTCCGGAA
 ATGTGGGAGGAGAGAATTACTGCTTGGTACGCAGAGCACCGAGGCCGAGCCAGGGATGAAGCTGAAATGG
 AATATCTGAAGATAGCTCAGGACCTGGAGATGTACGGTGTGAACACTTTGCAATCCGGAATAAAAAGGG
 CACAGAGCTGCTGCTTGGAGTGGATGCCCTGGGGCTTACATTTATGACCCTGAGAACAGACTGACCC
 AAGATCTCCTTCCCGTGAATGAAATCCGAAACATCTCGTACAGTGACAAGGAGTTTACTATTAACCCAC
 TGGATAAGAAAATTGATGTCTTCAAGTTAACTCCTCAAAGCTTCGTGTTAATAAGCTGATTCTCCAGCT
 ATGTATCGGGAACCATGATCTATTTATGAGGAGAAGGAAAGCCGATTCTTTGGAAGTTCAGCAGATGAAA
 GCCCAGGCCAGGGAGGAGAAGGCTAGAAAGCAGATGGAGCGGCAGCGCCTCGCTCGAGAGAAGCAGATGA
 GGGAGGAGGCTGAACGCACGAGGGATGAGTTGGAGAGGAGGCTGCTGCAGATGAAAGAAGAAGCAACAAT
 GGCCAACGAAGCACTGATGCGGTCTGAGGAGACAGCTGACCTGTTGGCTGAAAAGGCCAGATCACCGAG
 GAGGAGGCAAACTTCTGGCCAGAAGGCCGAGAGGCTGAGCAGGAAATGCAGCGCATCAAGGCCACAG
 CGATTCCGACGGAGGAGGAGAAGCGCTGATGGAGCAGAAGGTGCTGGAAGCCGAGGTGCTGGCACTGAA
 GATGGCTGAGGAGTCAGAGAGGAGGGCCAAAGAGGCAGATCAGCTGAAGCAGGACCTGCAGGAAGCACGC
 GAGGCGGAGCGAAGAGCCAAGCAGAAGCTCCTGGAGATTGCCACCAAGCCACGTACCCGCCATGAACC
 CAATTCAGCACCGTTGCCTCCTGACATACCAAGCTTCAACCTCATTGGTGACAGCCTGTCTTTCGACTT
 CAAAGATACTGACATGAAGCGGCTTCCATGGAGATAGAGAAAAGAAAAGTGAATACATGGAAAAGAGC
 AAGCATCTGCAGGAGCAGCTCAATGAACTCAAGACAGAAATCGAGGCCTTGAAGTGAAGAGAGGGAGA
 CAGCTCTGGATATTCTGCACAATGAGAACTCCGACAGGGTGGCAGCAGCAAGCACAAATACCATAAAAA
 GCCTCAAGCCCAAGGCAGAAGACCTATCTGCATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC222433 representing NM_181828
 Red=Cloning site Green=Tags(s)

MAGAIASRMSFSSLKRKQPKFTTVRIVTMDAEMFNCEVLVDHVSKEEPTVFHFLAKFYPENAEELVQE
 ITQHLFFLVKKQILDEKIYCPPEASVLLASYAVQAKYGDYDPSVHKRGFLAQEELLPKRVINLYQMTPE
 MWEERITAWYAEHRGRARDEAEMEYLKIAQDLEMYGVNYFAIRNKKGTLLLLGVDALGLHIYDPENRLTP
 KISFPWNEIRNISYSDKEFTIKPLDKKIDVFKFNSSKLRVNLILQLCIGNHDLFMRRRKADSLEVQOMK
 AQAREEKARKQMERQRLAREKQMRERTRDELERRLLQMKEEATMANEALMRSEETADLLAEKAQITE
 EEAKLLAQKAAEAQEMQRIKATAIRTEEEKRLMEQKVLAEVLALKMAEESERRAKEADQLKQDLQEAR
 EAERRAKQKLEIATKPTYPPMNPAPLPPDIPSFNLIGDSL SFDKDTDMKRLSMEIEKEKVEYMEKS
 KHLQEQLNELKTEIEALKLKERETALDILHNENSDRGGSSKHNTIKKPAQGRRPICI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8066_g01.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_181828

ORF Size: 1644 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_181828.3](#)
RefSeq Size: 5940 bp

RefSeq ORF: 1647 bp

Locus ID: 4771

UniProt ID: [P35240](#)

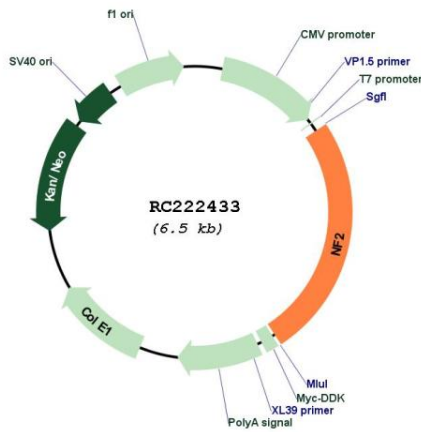
Cytogenetics: 22q12.2

Protein Families: Druggable Genome

MW: 63.8 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 RC222433