

Product datasheet for **RG222433**

NF2 (NM_181828) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NF2 (NM_181828) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NF2
Synonyms:	ACN; BANF; merlin-1; SCH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG222433 representing NM_181828
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGGGGCCATCGTTCCCGCATGAGCTTCAGCTCTCTCAAGAGGAAGCAACCCAAGACGTTACCCG
 TGAGGATCGTCACCATGGACGCCGAGATGGAGTTCAATTGCGAGGTAAGTGGATCATGATGTTTCAAAGGA
 AGAACCAGTCACCTTTCACTTCTTGCCAAATTTATCCTGAGAATGCTGAAGAGGAGCTGGTTCAGGAG
 ATCACACAACATTTATTCTTCTTACAGGTAAGAAGCAGATTTTAGATGAAAAGATCTACTGCCCTCTG
 AGGCTTCTGTGCTCCTGGCTTCTACGCCGTCAGGCCAAGTATGGTACTACGACCCAGTGTTCACAA
 GCGGGGATTTTGGCCCAAGAGGAATTGCTTCCAAAAAGGTAATAAATCTGTATCAGATGACTCCGAA
 ATGTGGGAGGAGAGAATTACTGCTTGGTACGACAGCACCAGGCCGAGCCAGGGATGAAGCTGAAATGG
 AATATCTGAAGATAGCTCAGGACCTGGAGATGTACGGTGTGAACACTTTGCAATCCGGAATAAAAAGG
 CACAGAGCTGCTGCTTGGAGTGGATGCCCTGGGGCTTACATTTATGACCCTGAGAACAGACTGACCC
 AAGATCTCCTTCCCGTGGAAATGAAATCCGAAACATCTCGTACAGTGACAAGGAGTTTACTATTAACCC
 TGGATAAGAAAATTGATGTCTTCAAGTTAACTCCTCAAAGCTTCGTGTTAATAAGCTGATTCTCCAGCT
 ATGTATCGGGAACCATGATCTATTTATGAGGAGAAGGAAAGCCGATTCTTTGGAAGTTCAGCAGATGAAA
 GCCCAGGCCAGGGAGGAGAAGGCTAGAAAGCAGATGGAGCGGCAGCGCCTCGCTCGAGAGAAGCAGATGA
 GGGAGGAGGCTGAACGCACGAGGGATGAGTTGGAGAGGAGGCTGCTGCAGATGAAAGAAGAAGCAACAAT
 GGCCAACGAAGCACTGATGCGGTCTGAGGAGACAGCTGACCTGTTGGCTGAAAAGGCCAGATCACCGAG
 GAGGAGGCAAACTTCTGGCCAGAAGGCCGAGAGGCTGAGCAGGAAATGCAGCGCATCAAGGCCACAG
 CGATTGCGACGGAGGAGGAGAAGCGCTGATGGAGCAGAAGGTGCTGGAAGCCGAGGTGCTGGCAGTGA
 GATGGCTGAGGAGTCAGAGAGGAGGGCCAAAGAGGCAGATCAGCTGAAGCAGGACCTGCAGGAAGCACGC
 GAGGCGGAGCGAAGAGCCAAGCAGAAGCTCCTGGAGATTGCCACCAAGCCACGTACCCGCCATGAACC
 CAATTCAGCACCGTTGCCTCCTGACATACCAAGCTTCAACCTCATTGGTGACAGCCTGTCTTTCGACTT
 CAAAGATACTGACATGAAGCGGCTTCCATGGAGATAGAGAAAAGAAAAGTGAATACATGGAAAAGAGC
 AAGCATCTGCAGGAGCAGCTCAATGAACTCAAGACAGAAATCGAGGCCTTGAAGTGAAGAGAGGGAGA
 CAGCTCTGGATATTCTGCACAATGAGAACTCCGACAGGGTGGCAGCAGCAAGCACAATACCATTA
 GCCTCAAGCCCAAGGCAGAAGACCTATCTGCATT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG222433 representing NM_181828
 Red=Cloning site Green=Tags(s)

MAGAIASRMSFSSLRKQPKFTTVRIVTMDAEMEFNCEVLDHDVSKPEEPTVFHFLAKFPENAEELVQE
 ITQHLFFLQVKKQILDEKIYCPPEASVLLASYAVQAKYGDYDPSVHKRFLAQEELLPKRVINLYQMTPE
 MWEERITAWYAEHRGRARDEAEMEYLKIAQDLEMYGVNYFAIRNKKGTLLLLGVDALGLHIYDPENRLTP
 KISFPWNEIRNISYSDKEFTIKPLDKKIDVFKFNSSKLRVNLILQLCIGNHDLFMRRRKADSLEVQOMK
 AQAREEKARKQMERQLAREKQMRERTRDELERRLLQMKEEATMANEALMRSEETADLLAEKAQITE
 EEAKLLAQKAAEAQEMQRIKATAIRTEEEKRLMEQVLEAEVLALKMAEESERRAKEADQLKQDLQEAR
 EAERRAKQLLEIATKPTYPPMNPAPLPPDIPSFNLIGDSL SFDKDTMKRLSMEIEKEKVEYMEKS
 KHLQEQLNELKTEIEALKLKERETALDILHNENSDRGGSSKHNTIKKPQAQGRRPICI

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


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

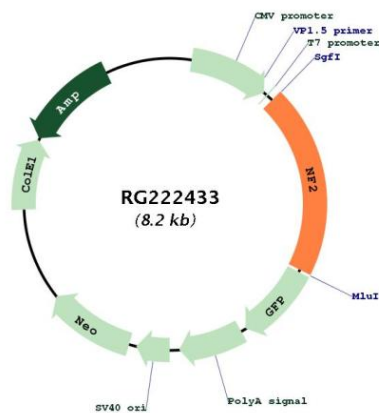
UniProt ID: [P35240](#)

Cytogenetics: 22q12.2

Protein Families: Druggable Genome

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 RG222433