

Product datasheet for **SC309523**

NF2 (NM_181829) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NF2 (NM_181829) Human Untagged Clone
Tag:	Tag Free
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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Fully Sequenced ORF: >SC309523 representing NM_181829.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGCCGGGGCCATCGCTTCCCGCATGAGCTTCAGCTCTCTCAAGAGGAAGCAACCCAAGACGTTACC
GTGAGGATCGTCACCATGGACGCCGAGATGGAGTTCAATTGCGAGATGAAGTGAAAGGGAAAGACCTC
TTTGATTTGGTGTGCCGACTCTGGGGCTCCGAGAAACCTGGTTCTTTGGACTGCAGTACACAATCAAG
GACACAGTGGCCTGGCTCAAATGGACAAGAAGGTAAAGAAGCAGATTTTAGATGAAAAGATCTACTGC
CCTCCTGAGGCTTCTGTGCTCCTGGCTTCTACGCCGTCCAGGCCAAGTATGGTGACTACGACCCAGT
GTTCAAGCGGGGATTTTGGCCCAAGAGGAATTGCTTCCAAAAAGGTAATAAATCTGTATCAGATG
ACTCCGAAATGTGGGAGGAGAGAATTACTGCTTGGTACGCAGAGCACCGAGGCCGAGCCAGGGATGAA
GCTGAAATGGAATATCTGAAGATAGCTCAGGACCTGGAGATGTACGGTGTGAACACTTTGCAATCCGG
AATAAAAAGGGCACAGAGCTGCTGCTTGGAGTGGATGCCCTGGGCTTCACATTTATGACCTGAGAAC
AGACTGACCCCAAGATCTCCTTCCCGTGAATGAAATCCGAAACATCTCGTACAGTGACAAGGAGTTT
ACTATTAACCACTGGATAAGAAAATTGATGTCTTCAAGTTAACTCCTCAAAGCTTCGTGTTAATAAG
CTGATTCTCCAGCTATGTATCGGGAACCATGATCTATTTATGAGGAGAAGGAAAGCCGATTCCTTGGAA
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CGAGAGAAGCAGATGAGGGAGGAGGCTGAACGCACGAGGGATGAGTTGGAGAGGAGGCTGCTGCAGATG
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CAGCGCATCAAGGCCACAGCGATTTCGCACGGAGGAGGAGAAGCGCCTGATGGAGCAGAAGGTCTGGAA
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CAGGACCTGCAGGAAGCACGCGAGGCGGAGCGAAGAGCCAAAGCAGAAGCTCCTGGAGATTGCCACCAAG
CCCACGTACCCGCCCATGAACCAATTCCAGCACCGTTGCCTCCTGACATACCAAGCTTCAACCTATT
GGTGACAGCCTGTCTTTGACTTCAAAGATACTGACATGAAGCGCTTTCCATGGAGATAGAGAAAGAA
AAAGTGAATACATGGAAAAGAGCAAGCATCTGCAGGAGCAGCTCAATGAACTCAAGACAGAAATCGAG
GCCTTGAAACTGAAAGAGAGGGAGACAGCTCTGGATATTCTGCACAATGAGAACTCCGACAGGGGTGCC
AGCAGCAAGCACAATACCATTAAAAGCCTCAAGCCCAAGGCAGAAGACCTATCTGCATTTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
  
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- Restriction Sites:** SgfI-MluI
- Plasmid Map:** □
- ACCN:** NM_181829
- Insert Size:** 1650 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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_181829.2](#)

RefSeq Size: 5968 bp

RefSeq ORF: 1650 bp

Locus ID: 4771

UniProt ID: [P35240](#)

Cytogenetics: 22q12.2

Protein Families: Druggable Genome

MW: 64.2 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]
Transcript Variant: This variant (6) lacks an alternate in-frame exon in the 5' coding region and includes an alternate exon in the 3' coding region, compared to variant 1. The resulting protein (isoform 6, also referred to as isoform delE3) is shorter and has a distinct C-terminus, compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from transcript and genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.