

Product datasheet for **SC124024**

NF2 (NM_000268) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NF2 (NM_000268) Human Untagged Clone
Tag:	Tag Free
Symbol:	NF2
Synonyms:	ACN; BANF; merlin-1; SCH
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC124024 sequence for NM_000268 edited (data generated by NextGen Sequencing)

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ATGGCCGGGGCCATCGCTTCCCGCATGAGCTTCAGCTCTCTCAAGAGGAAGCAACCCAAG
ACGTTACCGTGAGGATCGTCACCATGGACGCCGAGATGGAGTTCAATTGCGAGATGAAG
TGGAAAGGAAGGACCTTTTGATTTGGTGTGCCGACTCTGGGGCTCCGAGAAACCTGG
TTCTTTGGACTGCAGTACACAATCAAGGACACAGTGGCCTGGCTCAAAATGGACAAGAAG
GTACTGGATCATGATGTTTTCAAAGGAAGAACCAGTCACCTTTCACTTCTTGGCCAATTT
TATCCTGAGAATGCTGAAGAGGAGCTGGTTCAGGAGATCACACAACATTTATTCTTCTTA
CAGGTAAGAAGCAGATTTTAGATGAAAAGATCTACTGCCCTCCTGAGGCTTCTGTGCTC
CTGGCTTCTTACGCCGTCCAGGCCAAGTATGGTGACTACGACCCAGTGTTCACAAGCGG
GGATTTTTGGCCAAGAGGAATTGCTTCCAAAAAGGGTAATAAATCTGTATCAGATGACT
CCGAAATGTGGGAGGAGAGAATTACTGCTTGGTACGCAGAGCACCGAGGCCGAGCCAGG
GATGAAGTGAATGGAATATCTGAAGATAGCTCAGGACCTGGAGATGTACGGTGTGAAC
TACTTTGCAATCCGGAATAAAAAGGGCACAGAGCTGCTGCTTGGAGTGGATGCCCTGGGG
CTTCACATTTATGACCCTGAGAACAGACTGACCCCAAGATCTCCTTCCCGTGAATGAA
ATCCGAAACATCTCGTACAGTGACAAGGAGTTTACTATTAACCACTGGATAAGAAAATT
GATGTCTTCAAGTTAACTCCTCAAAGCTTCGTGTTAATAAGCTGATTCTCCAGCTATGT
ATCGGGAACCATGATCTATTTATGAGGAGAAGGAAAGCCGATTCTTTGGAAGTTCAGCAG
ATGAAAGCCCAGGCCAGGGAGGAGAAGGCTAGAAAGCAGATGGAGCGGCAGCGCTCGCT
CGAGAGAAGCAGATGAGGGAGGAGGCTGAACGCACGAGGGATGAGTTGGAGAGGAGGCTG
CTGCAGATGAAAGAAGAACAATGGCCAACGAAGCACTGATGCGGTCTGAGGAGACA
GCTGACCTGTTGGCTGAAAAGGCCAGATCACCGAGGAGGAGGCAAACTTCTGGCCAG
AAGGCCGAGAGGCTGAGCAGGAAATGCAGCGCATCAAGGCCACAGCGATTTCGCACGGAG
GAGGAGAAGCGCCTGATGGAGCAGAAGGTGCTGGAAGCCGAGGTGCTGGCACTGAAGATG
GCTGAGGAGTCAGAGAGGAGGGCCAAAGAGGCAGATCAGCTGAAGCAGGACCTGCAGGAA
GCACGCGAGGCGGAGCGAAGAGCCAAGCAGAAGCTCCTGGAGATTGCCACCAAGCCACG
TACCCGCCATGAACCAATTCCAGCACCGTTGCCCTCCTGACATACCAAGCTTCAACCTC
ATTGGTGACAGCTGTCTTTGACTTCAAAGATACTGACATGAAGCGGCTTTCCATGGAG
ATAGAGAAAGAAAAGTGAATACATGGAAGAGCAAGCATCTGCAGGAGCAGCTCAAT
GAACTCAAGACAGAAATCGAGGCCCTTAAACTGAAAGAGAGGGAGACAGCTCTGGATATT
CTGCACAATGAGAACTCCGACAGGGGTGGCAGCAGCAAGCACAATACCATTAAAAAGCTC
ACCTTGACAGAGCCCAAGTCCCAGTGGCCTTCTTTGAAGAGCTCTAG

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Clone variation with respect to NM_000268.3

5' Read Nucleotide Sequence: >OriGene 5' read for NM_000268 unedited

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AATACGACTCACTATAGGGCGGCCGAGTTTCGGCACGAGTTCCCGGGCCGGCCAGCCG
GCCACCATGGTGGCCCTGAGGCCTGTGCAGCAACTCCAGGGGGCTAAAGGGCTCANAGT
GCAGGCCGTGGGGCGCGAGGGTCCCAGGCTGAGCCCCGCGCCATGGCCGGGGCCATCGC
TTCCCGCATGAGCTTCAGCTCTCTCAAGAGGAAGCAACCAAGACGTTACCGTGAGGAT
CGTCACCATGGACGCCGAGATGGAGTTCAATTGCGAGATGAAGTGGAAAGGAAGGACCT
CTTTGATTTGGTGTGCCGACTCTGGGGCTCCGAGAAACCTGGTCTTTGGACTGCAGTA
CACAATCAAGGACACAGTGGCCTGGCTCAAAATGGACAAGAAGGTAAGGATCATGATGT
TTCAAAGGAAGAACCAGTCACCTTTCACTTCTTGGCCAAATTTTATCCTGAGAATGCTGA
AGAGGAGCTGGTTCAGGAGATCACACAACATTTATTCTTCTTACAGGTAAGAAGCAGAT
TTTAGATGAAAAGATCTACTGCCCTCCTGAGGCTTCTGTGCTCCTGGCTTCTTACGCCGT
CCAGGCCAAGTATGGTGACTACGACCCAGTGTTCACAAGCGGGGATTTTTGGCCAAGA
GGAATTGCTTCCAAAAAGGGTAATAAATCTGTATCAGATGACTCCGAAATGTGGGAGGA
GAGAATTACTGCT

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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_000268 unedited ACTTCCAGGGCCAGGAGAGGCACTGGGGAGNGGTCACAGGGATGCCACCCGGGATCTGTT CAGGAAACAGCTATGACCGCGGCCGAATCTAGAGTCGAGTTTTTTTTGGGTTTTTTTT TTTTTTAGACAAAGGAAGACAAATACTTCTTAAAAACAAAGACTCAGGTGAGAGACTAGA ACGCCATGAGAGAAATCTCTACAGGGTCGTAGTTCAAGGCAATTGCACATAAGAGGGGCT GGGCTCTTCACTCAGCTGGGAAAAGTTCTGGAGCTCCCACGAAACCCCAAGCCAGCTCC CTATGGATGGCTCTTTGATATCTGGTCCATCCCGCGGTCCCGGTAGCAGGAGAAGTGGC AGGTCCTGGGGTGGCTGGGTCACCTGCTAGAGCTCTTCAAAGAAGGCCACTCGGGACTTG GCGCTCTGCAAGGTGAGCTTTTTAATGGTATTGTGCTTGCTGCCACCCTGTGCGGAG TTCTATTGTGCAGAATATCCAGAGCTGTCTCCCTCTCTTTCAGTTTCAAGGCCTCGATT TCTGTCTTGAAGTTCATTGAGCTGCTCCTGCAGATGCTTGCTTTTTCCATGTATTCCACT TTTTCTTCTCTATCTCCATGAAAGCCGCTTCATGTCAGTATCTTTGAAGTCGAAAGAC AGGCTGTCACCAATGAGGTTGAAGCTTGGTATGTCAAGAGGCAACGGTGTGGAATTGGG TTCATGGGCGGGT
Restriction Sites:	Please inquire
ACCN:	NM_000268
Insert Size:	2300 bp
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.
	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
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:	<ol style="list-style-type: none"> 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_000268.2 , NP_000259.1
RefSeq Size:	6021 bp
RefSeq ORF:	1788 bp
Locus ID:	4771

UniProt ID: [P35240](#)

Cytogenetics: 22q12.2

Domains: B41, ERM

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]
Transcript Variant: This variant (1) encodes the longer predominant 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.