

Product datasheet for **SC107429**

NF2 (NM_181827) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NF2 (NM_181827) Human Untagged Clone
Tag:	Tag Free
Symbol:	NF2
Synonyms:	ACN; ACN, SCH, BANF, Merlin; BANF; merlin; moesin-ezrin-radixin like; moesin-ezrin-radixin-like protein; neurofibromin 2; neurofibromin 2 (bilateral acoustic neuroma); neurofibromin 2 (merlin); SCH; schwannomerlin; schwannomin
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_181827, the custom clone sequence may differ by one or more nucleotides

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ATGGCCGGGGCCATCGCTTCCCGCATGAGCTTCAGCTCTCTCAAGAGGAAGCAACCCAAGACGTTACCCG
TGAGGATCGTCACCATGGACGCCGAGATGGAGTTCAATTGCGAGATGAAGTGAAAGGGAAGGACCTCTT
TGATTTGGTGTGCCGGACTCTGGGGCTCCGAGAAACCTGGTTCTTTGGACTGCAGTACACAATCAAGGAC
ACAGTGGCCTGGCTCAAATGGACAAGAAGTTGGGCTAGAACTCGATGAAACTGGTACTGGATCATGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_181827 unedited
 CCCAAGTTTTTCCCCCGCCGTTGACGCAAAGGGCGGTAGGCGGTACGGTGGGAGGTCT
 ATATAAGCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTTGCA
 CGGCCCGCAATCGGCACGAGGGGCGCGGAGTCTGGGCCGTGCCGTCTAGGGTCCCG
 TCCCGAGGCGTCCCGGCATCTCCGGCCGAATCCCGAGTGCCGGTTCGCGCTGCAGC
 GAAGTCCCGGCTCCTGTGCCCTCCCTGCAGCCGTGAGGGCCCGTCCCCAACTCCCTT
 TCCGCTCAGGCAGGGTCCCTCGCGGCCATGCTGGCCGTGGGACCCGCGCAGCCAGAC
 CGTTCGCCGGCCGCGCAGCCGGCCACCATGGTGGCCCTGAGGCCTGTGCAGCAACTCCAG
 GGGGGCTAAAGGGCTCAGAGTGCAGGCCGTGGGCGCGAGGGTCCCGGGCCTGAGCCCCG
 CGCCATGGCCGGGGCCATCGCTTCCCGCATGAGCTTACGCTCTCTCAAGAGGAAGCAACC
 CAAGACGTTACCGTGAGGATCGTCACCATGGACGCCGAGATGGAGTTCAATTGCGAGAT
 GAAGTGAAAGGGAAGGACCTCTTTGATTTGGTGTGCCGACTCTGGGGTCCGAGAAAC
 CTGTTCTTTGGACTGCAGTACACAATCAAGGACACAGTGGCCTGGCTCACAGGACCAA
 GACAGTACTGGATCATGATGCTTCAAAGGAAGAACCAGTACCTTTCATTCTTTGCCAA
 ATTNTATCCTGAGATGCTGAGAGGCACCTGGTTCCAGGAGACACACCACATTTATTCTTC
 TACAGGTAAGGAGCCGATTTAGATGGAAAAGACTACTGCCTC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_181827 unedited
 GCACTGGAGGCAGGGGCTCACAGGGCATGCCACCCGGGTATCTGTTGCAGGAAAACAGCT
 ATGACCGCGCCGCAATCTATAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
 TTTAGACAAAGGAAGACATTTCTTTTAAAACAAAGACTCAGGTCAGAGAACTAGAACG
 CCATGAGATATTTCTCTACAGGGTCGATTTCAAGGCAATTGCACATAAGAGGGGCTGGG
 CTCTTCACTCAGCTGGGAAAGTTCTGGAGCTCCACGGAAACCCAGCCAGCTCCCTA
 TGGATGCTCTTTGATATCTGGTCCATCCCGCGGTCCCGTAGCAGGAGAAGTGGCAGG
 TCCTGGGGTGGTGGGTACCTGCTAGAGCTTCAAAGAAGGCCACTCGGGACTTGGCG
 CTCTGCAAGGTGAGTTTGAAGGGCTCAAATGCAGATAGGTCTTCTGCCTTGGGCTTGAAGC
 TTTTAAATGGTATTGTGCTTGTGCTGCCACCCCTGTCGGAGTTCTCATTGTGCAGAATA
 TCCAGAGCTGTCTCCCTCTTTTCAGTTTCAAGGCCTCGATTTCTGTCTTGTGATTGATTG
 AGCTGCTCCTGCAGATGCTTGTCTTTTCCATGTATTCCACTTTTTCTTCTCTATCTCC
 ATGGAAGCCGCTTCATGTCAGTATCTTTGAAGTCGAAAGACAGGCTGTCACCAATGAGG
 TTGAAGCTTGGTATGTCAAGAGGCAACGGTGTGGAATTGGGTTTCATGGGCGGTACGTG
 GGCTTGGTGGCAATCTCCAGGAGCTTCTGCTTGGCTCTTCGCTCCGACTCGCGTGTCTTC
 TGGCAGGTCTGCTTAAGCTGATCTGGCTCTT

Restriction Sites:

NotI-NotI

ACCN:

NM_181827

Insert Size:

2200 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).

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:	<u>NM_181827.1, NP_861965.1</u>
RefSeq Size:	6091 bp
RefSeq ORF:	279 bp
Locus ID:	4771
Cytogenetics:	22q12.2
Protein Families:	Druggable Genome
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (4) uses an alternate splice site in the 5' coding region that results in a frameshift, and includes an alternate segment in the 3' coding region, compared to variant 1. The resulting protein (isoform 4, also referred to as isoform insE2') is shorter than isoform 1.</p>