

## Product datasheet for **RG214514**

### NF2 (NM\_181833) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** NF2 (NM\_181833) 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)  
**ORF Nucleotide Sequence:** >RG214514 representing NM\_181833  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCCGGGGCCATCGCTTCCCGCATGAGCTTCAGCTCTCTCAAGAGGAAGCAACCCAAGACGTTACCG  
 TGAGGATCGTCACCATGGACGCCGAGATGGAGTCAATTGCGAGATGAAGTGAAAGGGAAGGACCTCTT  
 TGATTTGGTGTGCCGACTCTGGGGCTCCGAGAAACCTGGTTCTTTGGACTGCAGTACACAATCAAGGAC  
 ACAGTGGCCTGGCTCAAATGGACAAGAAGGTAAGTACTGGATCATGATGTTTCAAAGGAAGAACCAGTCACT  
 TTCACTTCTTGGCCAAATTTATCCTGAGAATGCTGAAGAGGAGCTGGTTCAGGAGATCACACAACATTT  
 ATTCTTCTTACAGGTAAGAAGCAGATTTAGATGAAAAGATCTACTGCCCTCCTGAGGCTTCTGTGCTC  
 CTGGCTTCTTACGCCGCTCCAGGCCAAGCTCACCTTGACAGAGCGCCAAGTCCCAGTGGCCTTCTTTGAAG  
 AGCTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG214514 representing NM\_181833  
 Red=Cloning site Green=Tags(s)

MAGAIASRMSFSSLKRKQPKTFTVRIVTMDAEMEFNCEMKWKGDLDLVCRTLGLRETWFFGLQYTIKD  
 TVAWLKMDDKVLVDHVSKEEPVTFHFLLAKFYPENAEELVQEITQHLFFLQVKKQILDEKIYCPPEASVL  
 LASYAVQAKLTLQSAKSRVAFFEEL

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_181833

**ORF Size:** 495 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\\_181833.2](#)

**RefSeq Size:** 4731 bp

**RefSeq ORF:** 498 bp

**Locus ID:** 4771

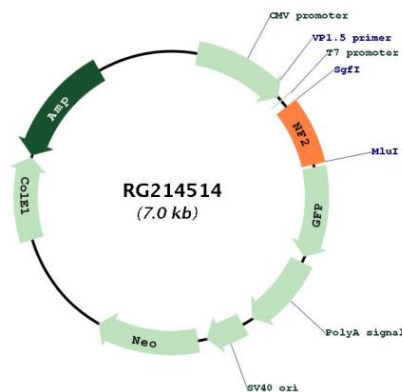
**UniProt ID:** [P35240](#)

**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 RG214514