

Product datasheet for RC401913

NF2 (NM 000268) Human Mutant ORF Clone

Product data:

Product Type: Mutant ORF Clones

Product Name: NF2 (NM 000268) Human Mutant ORF Clone

Mutation Description: C37X

Affected Codon#: 37

Affected NT#: 111

Nucleotide Mutation: NF2 Mutant (C37X), Myc-DDK-tagged ORF clone of Homo sapiens neurofibromin 2 (merlin)

(NF2), transcript variant 1 as transfection-ready DNA

Effect: Neurofibromosis 2

Symbol: NF2

Synonyms: ACN; BANF; merlin-1; SCH

E. coli Selection: Kanamycin (25 ug/mL)

Mammalian Cell N

Selection:

Neomycin

Vector: pCMV6-Entry (PS100001)

Tag: Myc-DDK
ACCN: NM 000268

ORF Size: 108 bp Restriction Sites: Sgfl-Mlul

ORF Nucleotide >RC401913 representing NM_000268

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGCCGGGGCCATCGCTTCCCGCATGAGCTTCAGCTCTCTCAAGAGGAAGCAACCCAAGACGTTCACCG

TGAGGATCGTCACCATGGACGCCGAGATGGAGTTCAAT

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGATCTGGCAGCAAATGATATCC

TGGATTACAAGGATGACGACGA TAAGGTTTAA



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Protein Sequence: >RC401913 representing NM_000268

Red=Cloning site Green=Tags(s)

MAGAIASRMSFSSLKRKQPKTFTVRIVTMDAEMEFN

SGPTRTRRLEQKLISEEDLAANDILDYKDDDDK**V**

Restriction Sites:

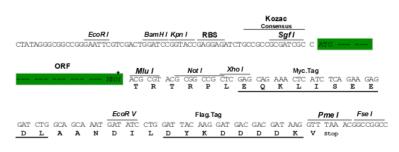
Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling:

Sgf I ORF Miu I

--- GCGATCGC C ATG ---/--- NIN ACG CGT ---



^{*} The last codon before the Stop codon of the ORF

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 customport@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. <u>More info</u>

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).

Note:

Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

RefSeq: NP 000259



NF2 (NM_000268) Human Mutant ORF Clone - RC401913

RefSeq Size: 108 bp
RefSeq ORF: 1788 bp
Locus ID: 4771

Cytogenetics: 22q12.2

Domains: B41, ERM

Protein Families: Druggable Genome

MW: 4 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]