

Product datasheet for RC401961

NF2 (NM_000268) Human Mutant ORF Clone

Product data:

OriGene Technologies, Inc.

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Product Type:	Mutant ORF Clones	
Product Name:	NF2 (NM_000268) Human Mutant ORF Clone	
Mutation Description:	E357X	
Affected Codon#:	357	
Affected NT#:	1069	
Nucleotide Mutation:	NF2 Mutant (E357X), 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	Neomycin	
Selection:		
Vector:	pCMV6-Entry (PS100001)	
Tag:	Myc-DDK	
ACCN:	NM_000268	
ORF Size:	1068 bp	
Restriction Sites:	Sgfl-Mlul	



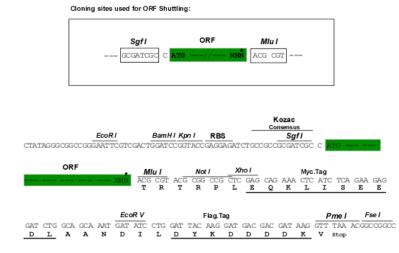
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	NF2 (NM_000268) Human Mutant ORF Clone – RC401961
ORF Nucleotide Sequence:	<pre>>RC401961 representing NM_000268 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGCCGGGGCCATCGCTTCCCGCATGAGCTTCAGCTCTCTCAAGAGGAAGCAACCCAAGACGTTCACCG TGAGGATCGTCACCATGGACGCCGAGATGGAGTTCAATTGCGAGATGAAGTGGAAAGGGAAGGACCTCTT TGATTTGGTGTCCCGGACTCTGGGGCCTCCGAGAAACCTGGTTCTTTGGACTGCAGTACACAATCAAGGAC ACAGTGGCCTGGCTCAAAATGGACAAGAAGGTACTGGATCATGATGTTTCAAAGGAAGAACCAGTCACCT TTCACTTCTTGGCCAAATTTTATCCTGAGAATGCTGAAGAGGAGCTGGTTCAGGAGATCACACAACATTT ATTCTTCTTACAGGTAAAGAAGCAGATTTTAGCTGAAGAGGAGCTGGTTCAGGAGGATCACACAACATTT ATTCTTCTTACAGGTAAAGAAGCAGATTTTAGCTGAACAGGAGCCCGAGCCCCCGGGGCTTCGTGGCTC CTGGCTTCTTACGCCGTCCAGGCCAAGTATGGTGACTACGACCCCAGTGTTCACAAGCGGGGAGGAGAG AATTACTGCTTGGTACGCAGGCCAAGTATGGTGACTACGACCCCAGGGATGAAGCTGGAAATGTGGGAGGAGAGA AATTACTGCTTGGTACGCAGAGCACCGAGGCCGAGCCAGGGATGAAGCTGAAATGGAATATCTGAAGATA GCTCAGGACCTGGAGATGTACGGTGTGAACTACTTTGCAATCCGGAATAAAAAGGGCACAGAGCTGCC TTGGAGTGGATGCCCTGGGGCTTCACATTTATGACCCTGAGAACAGACTGACCCCCAAGATCTCCTTCCC GTGGAATGAAATCCGAAACATCTCGTACAGTGACAAGGAGTTTACTATTAAACCACTGGATAAGAAAATT GATGTCTTCAAGTTTAACTCCTCAAAGCATCGTGGTTAATAAGCTGATTCTCCAGGATAAGAAAATT GATGTCTTCAAGTTTAACTCCCTCAAAGCGACTCGTGCTCGAGAAGGCAGATGAAGCCCAGGCCAGGGA GGAGAAGGCTAGAAAGCAGAAGGAAAGCCGATTCTTTGGAAGTTCAGCAGATGAAAGCCCAGGCCAGGGA GGAGAAGGCTAGAAAGCAGATGGAGCGGCAGCGCCTCGCTCG
Protein Sequenc	e: >RC401961 representing NM_000268 Red=Cloning site Green=Tags(s) MAGAIASRMSFSSLKRKQPKTFTVRIVTMDAEMEFNCEMKWKGKDLFDLVCRTLGLRETWFFGLQYTIKD TVAWLKMDKKVLDHDVSKEEPVTFHFLAKFYPENAEEELVQEITQHLFFLQVKKQILDEKIYCPPEASVL LASYAVQAKYGDYDPSVHKRGFLAQEELLPKRVINLYQMTPEMWEERITAWYAEHRGRARDEAEMEYLKI AQDLEMYGVNYFAIRNKKGTELLLGVDALGLHIYDPENRLTPKISFPWNEIRNISYSDKEFTIKPLDKKI DVFKFNSSKLRVNKLILQLCIGNHDLFMRRRKADSLEVQQMKAQAREEKARKQMERQRLAREKQMREEAE RTRDEL
	SGP TRTRRLEQKLISEEDLAANDILDYKDDDDKV
Restriction Sites:	Sgfl-Mlul

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Cloning Scheme:



* 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 <u>custsupport@origene.com</u> 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).

RefSeq:	<u>NP 000259</u>
RefSeq Size:	1068 bp
RefSeq ORF:	1788 bp
Locus ID:	4771
Cytogenetics:	22q12.2
Domains:	B41, ERM
Protein Families:	Druggable Genome
MW:	39.2 kDa

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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]

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