

Product datasheet for RC401940

NF2 (NM_000268) Human Mutant ORF Clone

Product data:

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product Type:	Mutant ORF Clones
Product Name:	NF2 (NM_000268) Human Mutant ORF Clone
Mutation Description:	Y192X
Affected Codon#:	192
Affected NT#:	576
Nucleotide Mutation:	NF2 Mutant (Y192X), 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 Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
Tag:	Myc-DDK
ACCN:	NM_000268
ORF Size:	573 bp
Restriction Sites:	Sgfl-Mlul



This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2022 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

	NF2 (NM_000268) Human Mutant ORF Clone – RC401940									
ORF Nucleotide Sequence:	<pre>>RC401940 representing NM_000268 Red=Cloning site Blue=ORF Green=Tags(s)</pre>									
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C									
	ATGGCCGGGGCCATCGCTTCCCGCATGAGCTTCAGCTCTCTCAAGAGGAAGCAACCCAAGACGTTCACCG TGAGGATCGTCACCATGGACGCCGAGATGGAGTTCAATTGCGAGATGAAGTGGAAAGGGAAGGACCTCTT TGATTTGGTGTGCCGGACTCTGGGGCTCCGAGAAACCTGGTTCTTTGGACTGCAGTACACAATCAAGGAC ACAGTGGCCTGGCTCAAAATGGACAAGAAGGTACTGGATCATGATGTTTCAAAGGAAGAACCAGTCACCT TTCACTTCTTGGCCAAATTTTATCCTGAGAATGCTGAAGAGGAGCTGGTTCAGGAGATCACACAACATTT ATTCTTCTTACAGGTAAAGAAGCAGATTTTAGATGAAAAGATCTACTGCCCTCCTGAGGCTTCTGTGCTC CTGGCTTCTTACGCCGTCCAGGCCAAGTATGGTGACTACGACCCCAGTGTTCACAAGCGGGGATTTTTGG CCCAAGAGGAATTGCTTCCAAAAAGGGTAATAAATCTGTATCAGATGACTCCGGAAATGTGGGAGGAGGAG AATTACTGCTTGG									
	AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC TGGATTACAAGGATGACGACGA TAAG GTTTAA									
Protein Sequence	<pre>>RC401940 representing NM_000268 Red=Cloning site Green=Tags(s)</pre>									
	MAGAIASRMSFSSLKRKQPKTFTVRIVTMDAEMEFNCEMKWKGKDLFDLVCRTLGLRETWFFGLQYTIKD TVAWLKMDKKVLDHDVSKEEPVTFHFLAKFYPENAEEELVQEITQHLFFLQVKKQILDEKIYCPPEASVL LASYAVQAKYGDYDPSVHKRGFLAQEELLPKRVINLYQMTPEMWEERITAW									
	SGP TRTRRLEQKLISEEDLAANDILDYKDDDDKV									
Restriction Sites:	Sgfl-Mlul									
Cloning Scheme:	Cloning sites used for ORF Shuttling: Sgf I ORF Miu I GCGATCGC C ATG// NIN ACG CGT									
	Kozac Consensus EcoRI BamHI Kpn I RBS Sgf I CTATAGGGGGGGGAATTCGTCGACTGGATGGCGGGGGGGG									

			ORF	•			M	llu I		No	xt/	х	ho l			Myc	.Tag			
-						NNN	ACC T	G CGI R	ACC T	G CGC R	G CCG	; CTC	GAG E	CAG Q	AAA K	CTC L	TA :	TCA S	GAA E	GAG E
						Eco	RV				Flag.T	ag					F	me l	F	se l
G	ĄΤ	CTG	GCA	GCA	AAT	GAT	ATC	CTG	GAT	TAC	AAG	GAT	GAC	GAC	GAT	AAG	GTT	TAA	ACGG	COGGOC
_1	2	L	A	А	N	D	I	L	D	Y	к	D	D	D	D	к	v	Stop		

* The last codon before the Stop codon of the ORF

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2022 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

Service NF2 (NM_000268) Human Mutant ORF Clone – RC401940

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:	573 bp
RefSeq ORF:	1788 bp
Locus ID:	4771
Locus ID: Cytogenetics:	4771 22q12.2
Cytogenetics:	22q12.2
Cytogenetics: Domains:	22q12.2 B41, ERM

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]

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2022 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US