

Product datasheet for **RR207644**

Nf2 (NM_013193) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nf2 (NM_013193) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nf2
Synonyms:	merlin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR207644 representing NM_013193
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGGCCGGAGCCATCGTTCCCGCATGAGCTTCAGCTCACTCAAGAGGAAGCAGCCCAAGACATTACGG
 TCGGATCGTCACCATGGATGCCGAGATGGAGTTCAACTGCGAGATGAAGTGAAAGGGAAGGACCTGTT
 TGATTTGGTATGCCGGACGCTGGGGCTTCGGGAGACCTGGTTCTTTGGACTGCAGTATACAATCAAGGAC
 ACGGTGGCTGGCTCAAATGGACAAGAAGGTGTTGGATCACGATGTTTCGAAGGAAGAACCAGTTACCT
 TTCATTTCTGGCCAAATTTTATCCTGAAAATGCTGAGGAGGAGCTAGTCCAGGAGATCACGCAGCACTT
 ATTTTTCTACAGGTGAAGAAGCAGATTTGGATGAAAAGGTCTATTGCCCTCTGAGGCGTCCGTGCTC
 TTGGCGTCATATGCTGTTCAAGCAAGTATGGCGACTATGACCCCTCTGTGCACAAGCGAGGATTTTTAG
 CCCAAGAGGAATTGCTTCCGAAAAGGGTGATAAATCTCTATCAGATGACTCCGGAATGTGGGAGGAGAG
 AATTACTGCTTGGTATGCCGAGCACCGGGCAGAGCCAGGGATGAAGCTGAAATGGAGTATTTGAAGATA
 GCTCAGGACTTGAGATGTATGGCGTGAACACTTTACAATCCGGAATAAAAAGGCCACAGAGTTGCTGC
 TTGGAGTGGATGCTCTGGGCCTTACATCTACGACCTGAGAACAGGCTGACCCCAAGATCTCCTTCCC
 GTGGAATGAAATCCGAAACATCTCTACAGCGACAAGGAGTTTACTATTAACCCTGGATAAGAAAATT
 GATGCTTTAAATTTAACTCTTCAAAGCTTCGTGTTAATAAGCTGATTCTTCAGCTGTGTATTGGGAACC
 ATGACCTATTTATGAGGAGAAGGAAAGCTGACTCTTTAGAAGTTCAGCAGATGAAAGCCCAGGCCAGGGA
 AGAGAAGCAAGAAAACAGATGGAGCGGCAGCGGCTGGCTCGAGAAAAGCAGATGCCGGAGGAGGCCGAG
 CGCAGCAGAGATGAGTTAGAGAGGAGGCTCCTGCAGATGAAAGAGGAAGCAACGATGGCCAATGAAGCTC
 TGATCGGCTGAGGAAAACAGCTGACCTGTTGGCTGAAAAGGCTCAGATCACAGAAGAGGAGGCCAAGCT
 TCTGGCTCAAAGGCTGCAGAGGCTGAGCAAGAGATGCAGCGAATCAAGGCCACAGCCATTCGGACAGAG
 GAGGAGAAGCGCCTGATGGAGCAGAAGGTGCTGGAGGCTGAAGTCTGGCGTTGAAGATGGCTGAGGAGT
 CAGAGAGGAGGCCAAGGAGGCTGATCAGTTAAAGCAAGACTTGCAGGAAGCCCAGAGAAGCAGAGCGAAG
 AGCCAAGCAGAAGCTCTTAGAAATCGCCACCAAGCCACATATCCACCCATGAACCCAATCCCAGCACCA
 CTGCTCTGACATACCGAGCTTCGACATTATTGGTGACAGCTTGTATTGACTTCAAGGACACGGACA
 TGAAGCGACTTTCCATGGAGATAGAGAAAGAGAAAGTGGAGTACATGGAGAAGAGCAAGCATCTGCAAGA
 ACAACTCAATGAACTCAAGACAGAAATTGAGGCCTTGAAACTCAAAGAGAGGGAGACAGCCTTGACATC
 CTACACAGCGAGCACTCAGACAGAGGCGCACCAGCAGCAAGCATAACACCATCAAAAAGCCTCAAGCCC
 AAGGCAGAAGACCTATCTGCATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR207644 representing NM_013193
 Red=Cloning site Green=Tags(s)

MAGAIASRMSFSSLKRKQPKFTFVRIVTMDAEMEFNCEMKWKGDLDLVCRTLGLRETWFFGLQYTIKD
 TVAWLKMDKKVLDHDVSKKEEPVTFHFLAKFYPENAEELVQEITQHLFLLQVKKQILDKQVYCPPEASVL
 LASYAVQAKYGDYDPSVHVRGFLAQEELLPKRVINLYQMTPEMWEERITAWYAEHRGRARDEAEMEYIKI
 AQDLEMYGVNYFTIRNKKGTELLLVVDALGLHIYDPENRLTPKISFPWNEIRNISYSDKEFTIKPLDKKI
 DVFKFNSSKLRVNLILQLCIGNHDLFMRRRKADSLEVQMQMAQAREEKARKQMERQRLAREKQMRREEAE
 RTRDELERRLLQMKEEATMANEALMRSEETADLLAEKAQITEEEAKLLAQKAAEAQEMQRIKATAIRTE
 EEKRLMEQKVLAEVLALKMAEESERRAKEADQLKQDLQEAAREARRAKQKLEIATKPTYPPMNPPIAP
 LPPDIPSFDIIGDSL SFDKDTDMKRLSMEIEKEKVEYMEKSKHLQEQNLKTEIEALKLKERETALDI
 LHSEHSRGGTSSKHNTIKKPQAQGRPPICI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

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:	<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:	NM_013193.1 , NP_037325.1
RefSeq Size:	4498 bp
RefSeq ORF:	1776 bp
Locus ID:	25744
UniProt ID:	Q63648
Cytogenetics:	14q21
MW:	69.2 kDa
Gene Summary:	has similarity to a protein family involved in linking cell membrane proteins to the cytoskeleton; may play a role in negative regulation of cell growth [RGD, Feb 2006]