

Product datasheet for **MR230606**

Nf2 (NM_001252251) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nf2 (NM_001252251) Mouse 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:

>MR230606 representing NM_001252251
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGGAGCCATCGTTCTCGCATGAGCTTCACTCAAGAGGAAGCAGCCCAAGACATTACGG
 TCGGATCGTCACCATGGACCCGAGATGGAGTTCAACTGCGAGATGAAATGGAAGGGAAGGACCTGTT
 TGATTTGGTGTGCCGACACTGGGGCTTCGGGAAACCTGGTTCTTTGGACTGCAGTATACAATCAAGGAC
 ACGGTGGCTGGCTCAAATGGACAAGAAGGTGTTGGATCATGATGTTTCGAAGGAAGAACCAGTTACCT
 TTCCTTCTGGCCAAATTTTATCCTGAAAATGCTGAGGAGGAGCTAGTTCAAGAGATCACGCAACACTT
 ATTTTTCTTACAGGTGAAGAAGCAGATTTGGATGAAAAGGTCTACTGCCCTCCCGAGGCGTCCGTGCTC
 TTGGCGTCATATGCTGTCCAGGCCAAGTATGGCGACTATGACCCCTCTGTGCACAAGCGGGGATTTTATG
 CCCAAGAGGAATTGCTCCGAAAAGGGTGATAAATCTCTATCAGATGACTCCGGAATGTGGGAGGAGAG
 AATTACGGCTTGGTATGCGGAGCACCGGGCAGAGCCAGGGATGAAGCTGAAATGGAGTATTTGAAGATA
 GCTCAGGACCTGGAGATGTATGGTGTGAACTACTTTACAATCCGGAATAAAAAGGACACAGAGTTGCTGC
 TTGGAGTGGATGCTCTTGGGCTTCATATCTATGACCCCTGAGAACAGGCTGACCCCAAGATCTCCTTCCC
 ATGGAATGAAATCCGAAACATCTCTACAGCGACAAGGAGTTTACTATTAACCCTGGATAAGAAAATT
 GATGCTTCAAATTTAACTCCTCAAAGCTTCGTGTTAATAAGCTGATTCTTCAGCTATGTATTGGGAACC
 ATGACCTATTTATGAGGCGACGGAAGCTGACTCTTTAGAAGTTCAGCAGATGAAAGCCAGGCCAGGGA
 AGAGAAGGCTAGAAAGCAGATGGAAGGCGAGCGGCTGGCTCGAGAGAAGCAGATGCGGGAGGAGGCCGAG
 CGTACAAGAGATGAGTTAGAGAGGAGGCTCCTGCAGATGAAAGAAGAAGCAACGATGGCCAATGAAGCTC
 TGATGCGCTCTGAGGAGACAGTATCTGTTGGCTGAAAAGGCTCAGATCACAGAGGAGGCAAGCTC
 TTTGGCACAAAAGGCTGCAGAGGCTGAGCAAGAGATGCAGCGAATCAAGGCCACGGCCATTCGGACAGAG
 GAGGAGAAGCGCCTGATGGAGCAGAAGGTGCTGGAGGCTGAAGTCTGGCATTGAAGATGGCTGAGGAGT
 CAGAGAGGAGGCCAAGGAGGCTGATCAGTTAAAGCAAGACTTGAAGAAGCCAGAGAAGCAGAGCGAAG
 AGCCAAGCAGAAGCTCTTAGAAATCGCCACCAAGCCACCTATCCACCCATGAACCAATTCACCACCA
 CTGCCTCTGACATACCGAGCTTCGACATTATTGCTGACAGCTTGTCTTTGACTTCAAGGATACGGACA
 TGAAGCGACTTTCCATGGAGATAGAGAAAGAAAAGTGGAGTACATGGAGAAGAGCAAGCACCTGCAGGA
 GCAGCTCAACGAGCTCAAGACGGAGATCGAGGCCCTTAAACTCAAAGAGCGGGAGACGGCCTTGGACGTC
 CTACACAGCGAGAGCTCAGACAGAGGCGGCCCCAGCAGCAAGCATAATACCATTAAGAAGCTCAAGCCC
 AAGGCAGAAGACCTATCTGCATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230606 representing NM_001252251
 Red=Cloning site Green=Tags(s)

MAGAIASRMSFSSLKRKQPKFTFVRIVTMDAEMEFNCEMKWKGLDFDLVCRITLGLRETWFFGLQYTIKD
 TVAWLKMDKKVLDHDVSKKEEPVTFHFLAKFYPENAEELVQEITQHLFFLQVKKQILDEKVCYCPPEASVL
 LASYAVQAKYGDYDPSVHKRGFLAQEELLPKRVINLYQMTPEMWEERITAWYAEHRGRARDEAEMEYDKI
 AQDLEMYGVNYFTIRNKKGTELLLGVDALGLHIYDPENRLTPKISFPWNEIRNISYSDKEFTIKPLDKKI
 DVFKFNSSKLRVNLILQLCIGNHDLFMRRRKADSLEVQMQMAQAREEKARKQMERQRLAREKQMRREEAE
 RTRDELERRLLQMKEEATMANEALMRSEETADLLAEKAQITEEEAKLLAQKAAEAQEMQRIKATAIRTE
 EEKRLMEQKVLAEVLALKMAEESERRAKEADQLKQDLQEAAREARRAKQKLEIATKPTYPPMNPPIPPP
 LPPDIPSFDIADSLSFDFKDTDMKRLSMEIEKEKVEYMEKSKHLQEQNLKTEIEALKLKERETALDV
 LHSESSDRGGPSSKHNTIKKPQAQGRPPICL

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_001252251.1 , NP_001239180.1
RefSeq Size:	2649 bp
RefSeq ORF:	1776 bp
Locus ID:	18016
UniProt ID:	P46662
Cytogenetics:	11 3.0 cM
MW:	69.6 kDa
Gene Summary:	Probable regulator of the Hippo/SWH (Sav/Wts/Hpo) signaling pathway, a signaling pathway that plays a pivotal role in tumor suppression by restricting proliferation and promoting apoptosis. Along with WWC1 can synergistically induce the phosphorylation of LATS1 and LATS2 and can probably function in the regulation of the Hippo/SWH (Sav/Wts/Hpo) signaling pathway. May act as a membrane stabilizing protein. May inhibit PI3 kinase by binding to AGAP2 and impairing its stimulating activity. Suppresses cell proliferation and tumorigenesis by inhibiting the CUL4A-RBX1-DDB1-VprBP/DCAF1 E3 ubiquitin-protein ligase complex (By similarity). Plays a role in lens development and is required for complete fiber cell terminal differentiation, maintenance of cell polarity and separation of the lens vesicle from the corneal epithelium.[UniProtKB/Swiss-Prot Function]