

Product datasheet for **MG226996**

Nf2 (NM_010898) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nf2 (NM_010898) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nf2
Synonyms:	merlin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG226996 representing NM_010898
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGGAGCCATCGTTCTCGCATGAGCTTCACTCAAGAGGAAGCAGCCCAAGACATTACCGG
 TCGGATCGTCACCATGGACGCCGAGATGGAGTTCAACTGCGAGATGAAATGGAAGGGAAGGACCTGTT
 TGATTTGGTGTGCCGACACTGGGGCTTCGGGAAACCTGGTTCTTTGGACTGCAGTATACAATCAAGGAC
 ACGGTGGCTGGCTCAAATGGACAAGAAGGTGTTGGATCATGATGTTTCGAAGGAAGAACCAGTTACCT
 TTCACTTCTGGCCAAATTTTATCCTGAAAATGCTGAGGAGGAGCTAGTTCAAGAGATCACGCAACACTT
 ATTTTTCTTACAGGTGAAGAAGCAGATTTGGATGAAAAGGTCTACTGCCCTCCCGAGGCGTCCGTGCTC
 TTGGCGTCATATGCTGTCCAGGCCAAGTATGGCGACTATGACCCCTCTGTGCACAAGCGGGGATTTTAG
 CCCAAGAGGAATTGCTCCGAAAAGGGTGATAAATCTCTATCAGATGACTCCGGAATGTGGGAGGAGAG
 AATTACGGCTTGGTATGCGGAGCACCGGGCAGAGCCAGGGATGAAGCTGAAATGGAGTATTGAAGATA
 GCTCAGGACCTGGAGATGTATGGTGTGAACTACTTTACAATCCGGAATAAAAAGGCCACAGAGTTGCTGC
 TTGGAGTGGATGCTCTTGGGCTTCATATCTATGACCCGTGAGAACAGGCTGACCCCAAGATCTCCTTCCC
 ATGGAATGAAATCCGAAACATCTCTACAGCGACAAGGAGTTTACTATTAACCCTGGATAAGAAAATT
 GATGTCTTCAAATTAACCTCAAAGCTTCGTGTTAATAAGCTGATTCTTCAGCTATGTATTGGGAACC
 ATGACCTATTTATGAGGCGACGGAAGCTGACTCTTTAGAAGTTCAGCAGATGAAAGCCAGGCCAGGGA
 AGAGAAGGCTAGAAAGCAGATGGAAGGCGAGCGGCTGGCTCGAGAGAAGCAGATGCGGGAGGAGGCCGAG
 CGTACAAGAGATGAGTTAGAGAGGAGGCTCCTGCAGATGAAAGAAGAAGCAACGATGGCCAATGAAGCTC
 TGATCGCTCTGAGGAGACAGCTGATCTGTTGGCTGAAAAGGCTCAGATCACAGAGGAGGCCAAGCTC
 TTTGGCACAAAAGGCTGCAGAGGCTGAGCAAGAGATGCAGCGAATCAAGGCCACGGCCATTCGGACAGAG
 GAGGAGAAGCGCCTGATGGAGCAGAAGGTGCTGGAGGCTGAAGTCTGGCATTGAAGATGGCTGAGGAGT
 CAGAGAGGAGGCCAAGGAGGCTGATCAGTTAAAGCAAGACTTGCAAGAAGCCAGAGAAGCAGAGCGAAG
 AGCCAAGCAGAAGCTCTTAGAAATCGCCACCAAGCCACCTATCCACCCATGAACCAATTCACCACCA
 CTGCCTCTGACATACCGAGCTTCGACATTATTGCTGACAGCTTGTCTTTGACTTCAAGGATACGGACA
 TGAAGCGACTTTCCATGGAGATAGAGAAAGAAAAGTGGAGTACATGGAGAAGAGCAAGCACCTGCAGGA
 GCAGCTCAACGAGCTCAAGACGGAGATCGAGGCCTTGAAACTCAAAGAGCGGGAGACGGCCTTGGACGTC
 CTACACAGCGAGAGCTCAGACAGAGGCGGCCCCAGCAGCAAGCATAATACCATTAAGGCTCACTCTGC
 AGAGCGCCAAGTCCCAGTGGCCTTCTTGAAGAACTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG226996 representing NM_010898
 Red=Cloning site Green=Tags(s)

MAGAIASRMSFSSLKRKQPKFTFVRIVTMDAEMEFNCEMKWKGDLDLVCRTLGLRETWFFGLQYTIKD
 TVAWLKMDDKVLVDHVSKEEPVTFHFLAKFYPENAEELVQEITQHLFFLQVKKQILDEKVVYCPPEASVL
 LASYAVQAKYGDYDPSVHKRGLAQEELLPKRVINLYQMTPEMWEERITAWYAEHRGRARDEAEMEYLKI
 AQDLEMYGVNYFTIRNKKGTELLLVGDALGLHIYDPENRLTPKISFPWNEIRNISYSDKEFTIKPLDKKI
 DVFKFNSSKLRVNKLIQLCIGNHDLFMRRRKADSLEVVQMQKAQAREEKARKQMERQRLAREKQMRREEAE
 RTRDELERRLLQMKEEATMANEALMRSEETADLLAEKAQITEEAKLLAQKAAEAQEMQRIRKATAIRTE
 EEKRLMEQKVLAEVLALKMAEESERRAKEADQLKQDLQEAAREARRAKQKLEIATKPTYPPMNPISPP
 LPPDIPISFDIIADSLSFDFKDTDMKRLSMEIEKEKVEYMEKSKHLQEQNLKTEIEALKLKERETALDV
 LHSESSDRGGPSSKHNTIKKLTLSAKSRVAFFEEEL

TRTRPLE - GFP Tag - V

Chromatograms:

https://cdn.origene.com/chromatograms/ja1283_a10.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_010898

ORF Size: 1788 bp

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:

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_010898.4](#), [NP_035028.2](#)

RefSeq Size: 4708 bp

RefSeq ORF: 1791 bp

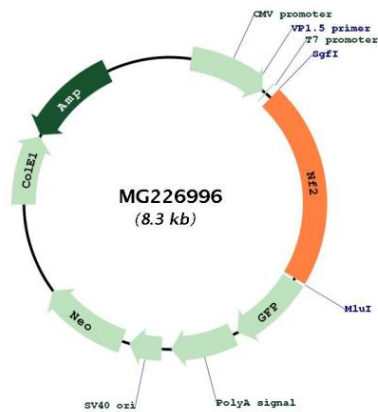
Locus ID: 18016

UniProt ID: [P46662](#)

Cytogenetics: 11 3.0 cM

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]

Product images:


Circular map for MG226996