

Product datasheet for **MC219508**

Nf2 (NM_010898) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nf2 (NM_010898) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nf2
Synonyms:	merlin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC219508 representing NM_010898
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCGGAGCCATCGTTCTCGCATGAGCTTCAGCTCACTCAAGAGGAAGCAGCCCAAGACATTACGG
 TCGGATCGTCACCATGGACGCCGAGATGGAGTTCAACTGCGAGATGAAATGGAAGGGAAGGACCTGTT
 TGATTTGGTGTGCCGCACTGGGGCTTCGGGAAACCTGGTTCTTTGGACTGCAGTATACAATCAAGGAC
 ACGGTGGCTGGCTCAAATGGACAAGAAGGTGTTGGATCATGATGTTTCGAAGGAAGAACCAGTTACCT
 TTCCTTCTGGCCAAATTTTATCCTGAAAATGCTGAGGAGGAGCTAGTTCAAGAGATCACGCAACACTT
 ATTTTTCTTACAGGTGAAGAAGCAGATTTGGATGAAAAGGTCTACTGCCCTCCCGAGGCGTCCGTGCTC
 TTGGCGTCATATGCTGTCCAGGCCAAGTATGGCGACTATGACCCCTCTGTGCACAAGCGGGGATTTTATG
 CCCAAGAGGAATTGCTCCGAAAAGGGTGATAAATCTCTATCAGATGACTCCGGAATGTGGGAGGAGAG
 AATTACGGCTTGGTATGCGGAGCACCGGGCAGAGCCAGGGATGAAGCTGAAATGGAGTATTTGAAGATA
 GCTCAGGACCTGGAGATGTATGGTGTGAACTACTTTACAATCCGGAATAAAAAGGGCACAGAGTTGCTGC
 TTGGAGTGGATGCTCTTGGGCTTCATATCTATGACCCCTGAGAACAGGCTGACCCCAAGATCTCCTTCCC
 ATGGAATGAAATCCGAAACATCTCTACAGCGACAAGGAGTTTACTATTAACCCTGGATAAGAAAATT
 GATGTCTTCAAATTTAACTCCTCAAAGCTTCGTGTTAATAAGCTGATTCTTCAGCTATGTATTGGGAACC
 ATGACCTATTTATGAGGCGACGGAAGCTGACTCTTTAGAAGTTCAGCAGATGAAAGCCCAGGCCAGGGA
 AGAGAAGGCTAGAAAGCAGATGGAAAGGCAGCGGCTGGCTCGAGAGAAGCAGATGCGGGAGGAGCCGAG
 CGTACAAGAGATGAGTTAGAGAGGAGGCTCCTGCAGATGAAAGAAGAAGCAACGATGGCCAATGAAGCTC
 TGATGCGCTCTGAGGAGACAGTGTCTGTTGGCTGAAAAGGCTCAGATCACAGAGGAGGAGGCCAAGCT
 TTTGGCACAAAAGGCTGCAGAGGCTGAGCAAGAGATGCAGCGAATCAAGGCCACGGCCATTCGGACAGAG
 GAGGAGAAGCGCCTGATGGAGCAGAAGGTGCTGGAGGCTGAAGTCTGGCATTGAAGATGGCTGAGGAGT
 CAGAGAGGAGGCCAAGGAGGCTGATCAGTTAAAGCAAGACTTGCAAGAAGCCAGAGAAGCAGAGCGAAG
 AGCCAAGCAGAAGCTCTTAGAAATCGCCACCAAGCCACCTATCCACCCATGAACCAATTCACCACCA
 CTGCCTCTGACATACCGAGCTTCGACATTATTGCTGACAGCTTGTCTTTGACTTCAAGGATACGGACA
 TGAAGCGACTTTCCATGGAGATAGAGAAAGAAAAGTGGAGTACATGGAGAAGAGCAAGCACCTGCAGGA
 GCAGCTCAACGAGCTCAAGACGGAGATCGAGGCCCTTAAAAGTCAAAGAGCGGGAGACGGCCTTGGACGTC
 CTACACAGCGAGACTCAGACAGAGGCGGCCCCAGCAGCAAGCATAATACCATTAAGGCTCACTCTGC
 AGAGCGCCAAGTCCCAGTGGCCTCTTTGAAGAACT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_010898

Insert Size: 1791 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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: 4732 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]

Transcript Variant: This variant (3) lacks an internal exon in the 3' region, compared to variant 1. The resulting isoform (2) is shorter and has a distinct C-terminus, compared to isoform 1.

Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.