

## Product datasheet for **MC228379**

### **Nf2 (NM\_001252252) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nf2 (NM_001252252) 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:** >MC228379 representing NM\_001252252  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCGGAGCCATCGTTCTCGCATGAGCTTCAGCTCACTCAAGAGGAAGCAGCCCAAGACATTACGG  
 TCGCGATCGTCACCATGGACGCCGAGATGGAGTTCAACTGCGAGATGAAATGGAAGGGAAGGACCTGTT  
 TGATTTGGTGTGCCGCACTGGGGCTTCGGGAAACCTGGTTCTTTGGACTGCAGTATACAATCAAGGAC  
 ACGGTGGCTGGCTCAAATGGACAAGAAGGTGTTGGATCATGATGTTTCGAAGGAAGAACCAGTTACCT  
 TTCCTTCTGGCCAAATTTTATCCTGAAAATGCTGAGGAGGAGCTAGTTCAAGAGATCACGCAACACTT  
 ATTTTTCTTACAGGTGAAGAAGCAGATTTGGATGAAAAGGTCTACTGCCCTCCCGAGGCGTCCGTGCTC  
 TTGGCGTCATATGCTGTCCAGGCCAAGTATGGCGACTATGACCCCTCTGTGCACAAGCGGGGATTTTATG  
 CCCAAGAGGAATTGCTCCGAAAAGGGTGATAAATCTCTATCAGATGACTCCGGAATGTGGGAGGAGAG  
 AATTACGGCTTGGTATGCGGAGCACCGGGCAGAGCCAGGGATGAAGCTGAAATGGAGTATTGAAGATA  
 GCTCAGGACCTGGAGATGTATGGTGTGAACTACTTTACAATCCGGAATAAAAAGGGCACAGAGTTGCTGC  
 TTGGAGTGGATGCTCTTGGGCTTCATATCTATGACCCCTGAGAACAGGCTGACCCCAAGATCTCCTTCCC  
 ATGGAATGAAATCCGAAACATCTCTACAGCGACAAGGAGTTTACTATTAACCCTGGATAAGAAAATT  
 GATGCTTCAAATTTAACTCCTCAAAGCTTCGTGTTAATAAGCTGATTCTTCAGCTATGTATTGGGAACC  
 ATGACCTATTTATGAGGCGACGGAAAGCTGACTCTTTAGAAGTTCAGCAGATGAAAGCCCAGGCCAGGGA  
 AGAGAAGGCTAGAAAAGCAGATGGAAAGGCAGCGGCTGGCTCGAGAGAAGCAGATGCGGGAGGAGCCGAG  
 CGTACAAGAGATGAGTTAGAGAGGAGGCTCCTGCAGATGAAAGAAGAAGCAACGATGGCCAATGAAGCTC  
 TGATGCGCTCTGAGGAGACAGTGTCTGTTGGCTGAAAAGGCTCAGATCACAGAGGAGGAGGCCAAGCT  
 TTTGGCACAAAAGGCTGCAGAGGCTGAGCAAGAGATGCAGCGAATCAAGGCCACGGCCATTTCGGACAGAG  
 GAGGAGAAGCGCCTGATGGAGCAGAAGGTGCTGGAGGCTGAAGTCTGGCATTGAAGATGGCTGAGGAGT  
 CAGAGAGGAGGCCAAGGAGGCTGATCAGTTAAAGCAAGACTTGAAGAAGCCAGAGAAGCAGAGCGAAG  
 AGCCAAGCAGAAGCTCTTAGAAATCGCCACCAAGCCACCTATCCACCCATGAACCCAATTCACCACCA  
 CTGCCTCTGACATACCGAGCTTCGACATTATTGCTGACAGCTTGTCTTTGACTTCAAGGATACGGACA  
 TGAAGCGACTTTCATGGAGATAGAGAAAAGAAAAGTGGAGTACATGGAGAAGAGCAAGCACCTGCAGGA  
 GCAGCTCAACGAGCTCAAGACGGAGATCGAGGCCCTTAAAAGTCAAAGAGCGGGAGACGGCCTTGGACGTC  
 CTACACAGCGAGAGCTCAGACAGAGGCGGCCCCAGCAGCAAGCATAATACCATTAAGGTACCTGAAA  
 TGTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001252252
- Insert Size:** 1755 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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\\_001252252.1](#), [NP\\_001239181.1](#)

**RefSeq Size:** 4748 bp

**RefSeq ORF:** 1755 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 (4) lacks an exon but has an alternate segment in the 3' coding region, compared to variant 1. The resulting isoform (3) 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.