

Product datasheet for MR205376

Nf2 (BC005442) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nf2 (BC005442) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nf2
Synonyms:	merlin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205376 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGGAGCCATCGCTTCTCGCATGAGCTTCAGCTCACTCAAGAGGAAGCAGCCCAAGACATTCACGG
TGCGGATCGTCACCATGGACGCCGAGATGGAGTCAACTGCGAGATGAAATGGAAGGGGAAGGACCTGTT
TGATTTGGTGTGCCGACACTGGGGCTTCGGGAAACCTGGTCTTTGGACTGCAGTATACAATCAAGGAC
ACGGTGGCCTGGCTCAAATGGACAAGAAGGTGTTGGATCATGATGTTTGAAGGAAGAACCAGTTACCT
TCACTTCTGGCCAAATTTATCCTGAAAATGCTGAGGAGGAGCTAGTTCAAGAGATCAGCAACACTT
ATTTTTCTTACAGGTGAAGAAGCAGATTTGGATGAAAAGGTCTACTGCCCTCCCGAGGGCTCCGTGCTC
TTGGCGTCATATGCTGTCCAGGCCAAGTATGGCGACTATGACCCCTCTGTGCACAAGCGGGGATTTTAG
CCCAAGAGGAATTGCTCCCGAAAAGGGTGATAAATCTCTATCAGATGACTCCGGAATGTGGGAGGAGAG
AATTACGGCTTGGTATGCGGAGCACCGGGCAGAGCCAGGGATGAAGCTGAAATGGAGTATTTGAAGATA
GCTCAGGACCTGGAGATGTATGGTGTGAACACTTTACAATCCGGAATAAAAAGGGCACAGAGTTGCTGC
TTGGAGTGGATGCTCTTGGGCTTCATATCTATGACCTGAGAACAGGCTGACCCCAAGATCTCCTTCT
ATGGAATGAAATCCGAAACATCTCTACAGCGACAAGGAGTTACTATTAACCAGTGGATAAGAAAATT
GATGCTTCAAATTTAACTCCTCAAAGCTTCGTGTTAATAAGCTGATTCTCAGTATGTATTGGGAACC
ATGACCTATTTATGAGGCGACGGAAAGCTGACTCTTTAGAAGTTCAGCAGATGAAAGCCAGGCCAGGGA
AGAGAGAGAGAGAGAGAGGGGGGGGGGAGAGAGAGAGAGAGCTCGAATGGTCCCGAATGTCTCC
AGCCTGCTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205376 protein sequence
Red=Cloning site Green=Tags(s)

MAGAIASRMSFSSLKRKQPKTFTVRIVTMDAEMEFNCEMKWKGKDLFDLVCRTLGLRETWFFGLQYTIKD
 TVAWLKMDKKVLDHDVSKKEEPVTFHFLAKFYPENAEELVQEITQHLFFLQVKKQILDEKVYCPPEASVL
 LASYAVQAKYGDYDPSVHKRGLAQEELLPKRVINLYQMTPEMWEERITAWYAEHRGRARDEAEEMEYLKI
 AQDLEMYGVNYFTIRNKKGTLELLGVDALGLHIYDPENRLTPKISFLWNEIRNISYSDKEFTIKPLDKKI
 DVFKFNSSKLRVNLILQLCIGNHDLFMRRRKADSLLEVQMQKAQAREERERERGRGGERERARMGPQNVS
 SLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: BC005442

ORF Size: 1059 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: [BC005442](#), [AAH05442](#)

RefSeq Size: 2127 bp

RefSeq ORF: 1061 bp

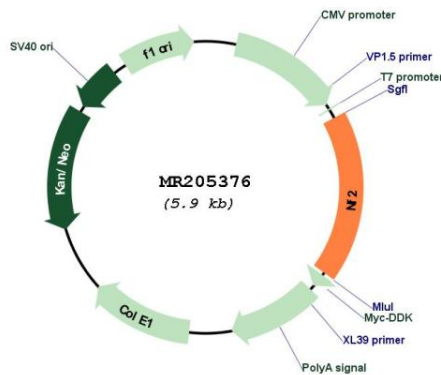
Locus ID: 18016

Cytogenetics: 11 3.0 cM

MW: 41.5 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]

Product images:



Circular map for MR205376