

Product datasheet for MC217723

Nf2 (BC005442) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Nf2 (BC005442) Mouse Untagged Clone
 Tag: Tag Free
 Symbol: Nf2
 Synonyms: merlin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 Fully Sequenced ORF: >BC005442
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCCGGAGCCATCGCTTCTCGCATGAGCTTCAGCTCACTCAAGAGGAAGCAGCCCAAGACATTCAGG
 TCGGATCGTCACCATGGACGCCGAGATGGAGTTCAACTGCGAGATGAAATGGAAGGGGAAGGACCTGTT
 TGATTTGGTGTGCCGGACTGGGGCTTCGGGAAACCTGGTTCTTTGGACTGCAGTATACAATCAAGGAC
 ACGGTGGCCTGGCTCAAATGGACAAGAAGGTGTTGGATCATGATGTTTCGAAGGAAGAACCAGTTACCT
 TCACTTCTGGCCAAATTTTATCCTGAAAATGCTGAGGAGGAGCTAGTTCAAGAGATCACGCAACACTT
 ATTTTTCTTACAGGTGAAGAAGCAGATTTTGGATGAAAAGGTCTACTGCCCTCCCGAGGCGTCCGTGCTC
 TTGGCGTCATATGCTGTCCAGGCCAAGTATGGCGACTATGACCCCTCTGTGCACAAGCGGGGATTTTAG
 CCCAAGAGGAATTGCTCCCGAAAAGGTGATAAATCTCTATCAGATGACTCCGGAATGTGGGAGGAGAG
 AATTACGGCTTGGTATGCGGAGCACCGGGCAGAGCCAGGGATGAAGCTGAAATGGAGTATTTGAAGATA
 GCTCAGGACCTGGAGATGTATGGTGTGAACACTTTACAATCCGGAATAAAAAGGCACAGAGTTGCTGC
 TTGGAGTGGATGCTCTTGGGCTTCATATCTATGACCCGTGAGAACAGGCTGACCCCAAGATCTCCTTCT
 ATGGAATGAAATCCGAAACATCTCTACAGCGACAAGGAGTTTACTATTAACCCTGGATAAGAAAAT
 GATGTCTTCAAATTTAACTCCTCAAAGCTTCGTGTTAATAAGCTGATTCTTCAGCTATGTATTGGGAACC
 ATGACCTATTTATGAGGCGACGAAAGCTGACTCTTTAGAAGTTCAGCAGATGAAAGCCCAGGCCAGGGA
 AGAGAGAGAGAGAGAGGGGGCGGGGGGAGAGAGAGAGAGCTCGAATGGGTCCCAGAATGTCTCC
 AGCCTGCTTTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
 ACCN: BC005442



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Insert Size:	1062 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:	<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:	BC005442 , AAH05442
RefSeq Size:	2127 bp
RefSeq ORF:	1061 bp
Locus ID:	18016
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]