

Product datasheet for MC224043

Nfasc (NM_182716) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nfasc (NM_182716) Mouse Untagged Clone
Tag: Tag Free
Symbol: Nfasc
Synonyms: AA387016; D430023G06Rik; mKIAA0756; NF
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224043 representing NM_182716
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCAGGCAGCAGGCGCCACCCTGGGTCCACATAGCCCTCATCTCTCTCCTCAGCCTCGGAGGGG
 CCATCGAGATCCGATGGACCCAAGCATTGAGAATGAGCTGACCCAACCCCAACTATCACCAAGCAGTC
 CGTGAAGGACCACATCGTGGACCCTCGAGATAACATCCTGATTGAATGTGAAGCTAAAGGCAACCCCGCC
 CCCAGTTTTCACTGGACTCGCAACAGCAGATTCTCAACATTGCCAAGGACCCACGGGTGTCCATGAGGA
 GGAGATCTGGGACCTTGGTATCGACTTCCGCAGTGGTGGGCGGCTGAGGAATACGAAGGGGAGTACCA
 GTGCTTTGCCCGAACAATTTGGCACTGCACTTAGCAACCGCATCCGCCTGCAGGTGTCCAATCTCCC
 CTGTGGCCCAAGGAAAACCTAGACCCCGTCTGTGGTTCAAGAGGGTGCCCCCTTGACACTACAGTGAACC
 CCCCACCCGGCCTCCCGTCCCCGTCTCTTCTGGATGAGCAGCTCCATGGAGCCCATCACCCAGGACAA
 GCGTGTCTCCAGGGTACAACGGGGACCTGTACTTCTCCAACGTCATGCTGCAGGACATGCAGACCGAC
 TACAGCTGCAACGCGCGCTTTCACCTTCAACACACCATTCAGCAGAAGAACCCTTCAACCCTCAAGGTCC
 TCACCACCCGAGGAGTTGCAGAAAGAAGCCAGCTTCATGTATCCCAAGGCACATCGAGCAGTCAGAT
 GGTTCTCCGTGGCATGGACCTGCTGCTGGAATGCATTGCCTCTGGCGTCCCAACACCAGACATTGCATGG
 TACAAGAAAGGTGGGACCTCCCATCTAACAAGGCAAGTTTCGAGAACTTAAATAAGGCTCTGCGCATCA
 CCAATGTCTCTGAAGAGGACTCTGGGGAGTATTTCTGCCTGGCCTCCAACAAGATGGGCAGCATCCGGCA
 CACGATCTCGGTGAGAGTAAAGGCTGCTCCATACTGGCTGGATGAGCCCAAGAACCTGATCCTGGCTCCT
 GGGGAAGATGGGAGGCTGGTATGCCGAGCAATGGGAACCCGAAGCCGACCGTGCAGTGGATGGTGAATG
 GAGAGCCTTTACAATCGGCACCACCAATCCCAACCGTGAGGTAGCTGGAGACACTATCATCTCCGGGA
 TACTCAGATCAGCAGCAGGGCAGTGTACCAATGTAATACATCCAATGAACATGGCTACCTGCTGGCCAAT
 GCCTTCGTGAGCGTGTAGATGTACCCCTCGGATGCTGTCTGCCGCAACCAGCTCATCAGGGTGTATCC
 TTTATAACCGGACACGGCTGGACTGTCCGTTCTTTGGGTCTCCATCCCAACACTCCGATGGTTTAAAGAA
 TGGGCAAGGAAGCAACCTGGATGGCGGTAACCTACCACGCTACGAAAACGGCAGTCTAGAAATCAAGATG
 ATTCGCAAGAGGACCAAGGCATCTACACCTGTGTGGCCACCAACATCCTGGGCAAGCCGAAAATCAAG



TCCGCCTGGAGGTCAAAGACCCACCAGGATCTACAGGATGCCCGAGGACCAGGTGGCCAAGAGGGGCAC
CACGGTGCAGCTGGAGTGCCGCGTAAAACATGACCCTCCTTGAAGCTCACAGTCTCCTGGCTGAAGGAC
GATGAGCCACTCTACATTGAAAACAGGATGAAGAAGGAAGATGACTCCCTGACGATCTTCGGAGTGGCAG
AGCGGGACCAGGGCAGTTACACGTGTATGGCCAGCACCAGCTGGACCAGGACCTGGCAAAGGCCTACCT
CACTGTTCTAGCTGATCAGGCCACTCCAACCTAACCGTTTGGCTGCCCTACCCAAAGGGCGACCAGCCGA
CCCAGGGACCTGGAGCTCACTGACCTGGCTGAGAGGAGTGTGAGGCTGACCTGGATCCCAGGGGATGACA
ACAACAGCCCTATCACAGACTACGTGTTCAAGTTTGAAGAGGACCAGTTCCAACCAGGGGTGGCATGA
CCAACCTCAGGTTCCAGGCAGCGTCAACTCAGCCGTCCTCCATCTGTCCCATATGTCAACTACCAATTC
AGAGTCATCGCTGTCAACGAGGTTGGGAGCAGCCACCCAGCCTTCCATCCGAGCGGTACCGAACCAAGT
GGGCACCCCTGAATCTAATCCCAGTGTGTGAAGGGCGAAGGGACAAGAAAGAACAATATGGAGATCAC
GTGGACGCTATGAATGTACTCTGCCTTGGCCCCAACCTACGCTACATTGTCAAGTGGCGACGGAGA
GAGACCCGAGAGACTTGGAAACAATGTACAGTGTGGGCTCTCGTACGTGGTGGGCGAGACGCCTGTCT
ACGTTCCCTATGAGATCCGAGTCCAGGCTGAAAATGACTTTGGGAAAGGCCCGAGCCTGACACCATCAT
TGGGTACTCCGGAGAAGATTTACCCAGTCCCCAGGCGGTTGAGTCCGACAGCCCAACCTGGAGACC
ATCAACCTGGAGTGGGACCACCCAGAGCACCCCAACGGAATCCTGATTGGATACATCCTCAGATACGTGC
CCTTTAATGGAACCAAACCTGGGAAAGCAGATGGTGGAAAACCTTCTCTCCCAATCAGACCAAGTTCTCTGT
GCAGAGAGCAGACCCAGTGTGCGGTTACCGCTTCTCCCTCAGTGCAGGACACAGGTGGGCTCTGGAGAA
GCAGCCACAGAGGAGTCCCCAGCACCTCCAATGAAGCTACTCCAACCTGCAGCTCCTCCCAGTTGCCCC
CGACTACTGTGGGTACCACAGGCCTTGTGAGCAGTACTGATGCTACTGCCCTTGTGCCACCAGTGAAGC
CACAAACAGTTCATCATTCCAACCGTCGTACCTACCACCGTCGCCACCACCATTGCCACAACCTACTACA
ACCACTGCCGCCACCACCACCACCACCTACGGAGAGCCCTCCCACTACCACTGCTGGGACTAAGATTC
ACGAAACCGCCCCGACGAGCAGTCCATTTGGAACGTACAGTGTCTCCCAACAGTAAATGGGCCAACAT
CACCTGGAAGCACAATTTCAAGCCTGGAACCTGACTTTGTGGTTGAGTACATCGACAGCAACCATACGAAA
AAAACCTGCCCTGTTAAGGCCAGGCCAGCCTATACAGCTGACAGACCTTTTCCCGGGATGACGTACA
CGTTGCGGGTGTATTTCCCGGACAAACGAGGGCATCAGCAGTACCGTCATCACCTTTATGACCAGTACAGC
TTACACCAATAACCAGGCAGACATCGCCACCCAGGGCTGGTTCATCGGGCTCATGTGTCATTGCCCTT
CTGGTGTGATCCTTCTCATCGTCTGCTTCAAGAGGAGTCCGAGTGGCAAGTACCCAGTGGGGGAAA
AGAAGGATGTCCCTTGGGTCTGAAGACCCCAAGAAGAAGATGGCTCATTGACTACAGTGTGAGGA
CAACAAGCCCCTGCAGGGCAGCCAGACATCTCTGGATGGCACCATCAAGCAGCAGGAGAGCGATGACAGC
CTGGTGGACTATGGCGAAGGCGGCGAGGGCCAGTTCAATGAAGATGGCTCCTTTATTGGCCAGTACTGT
TCAAAAAGGACAAGGAGGAAACGGAGGGCAATGAGAGCTCAGAGGCCACATCACCAGTCAATGCCATCTA
TTCCTTGCCGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-Mlul

ACCN:

NM_182716

Insert Size:

3723 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_182716.4](#), [NP_874385.1](#)

RefSeq Size: 9795 bp

RefSeq ORF: 3723 bp

Locus ID: 269116

UniProt ID: [Q810U3](#)

Cytogenetics: 1 57.42 cM

Gene Summary: This gene encodes an L1 family immunoglobulin cell adhesion molecule with multiple IGcam and fibronectin domains. The protein functions in neurite outgrowth, neurite fasciculation, and organization of the axon initial segment (AIS) and nodes of Ranvier on axons during early development. Both the AIS and nodes of Ranvier contain high densities of voltage-gated Na⁺ (Nav) channels which are clustered by interactions with cytoskeletal and scaffolding proteins including this protein, gliomedin, ankyrin 3 (ankyrin-G), and betaIV spectrin. This protein links the AIS extracellular matrix to the intracellular cytoskeleton. This gene undergoes extensive alternative splicing, and the full-length nature of some variants has not been determined. [provided by RefSeq, May 2009]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). This isoform lacks the third fibronectin type 3 (FNIII) repeat and includes the mucin-like domain. Isoform 1 is also known as NF186, as described by Davis et al. (PMID: 8947556). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.