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Product datasheet for MC223780

Nfasc (NM_001160318) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nfasc (NM_001160318) 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:	>MC223780 representing NM_001160318 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCCAGGCAGCAGGCGCCACCCTGGGTCCACATAGCCCTCATCCTCTTCCTCCTCAGCCTCGGAGGGG CCATCGAGATTCCGATGGACCTGACCCAACCCCCAACTATCACCAAGCAGTCCGTGAAGGACCACATCGT GGACCCTCGAGATAACATCCTGATTGAATGTGAAGCTAAAGGCAACCCCGCCCCCAGTTTTCACTGGACT CGCAACAGCAGATTCTTCAACATTGCCAAGGACCCACGGGTGTCCATGAGGAGGAGATCTGGGACCTTGG TGATCGACTTCCGCAGTGGTGGGCGGCCTGAGGAATACGAAGGGGAGTACCAGTGCTTTGCCCGGAACAA ATTTGGCACTGCACTTAGCAACCGCATCCGCCTGCAGGTGTCCAAATCTCCCCTGTGGCCCAAGGAAAAC CTAGACCCCGTCGTGGTTCAAGAGGGTGCCCCCTTGACACTACAGTGCAACCCCCCACCCGGCCTCCCGT CCCCCGTCATCTTCTGGATGAGCAGCTCCATGGAGCCCATCACCCAGGACAAGCGTGTCTCCCAGGGTCA CAACGGGGACCTGTACTTCTCCAACGTCATGCTGCAGGACATGCAGACCGACTACAGCTGCAACGCGCGC TTTCACTTCACCCACACCATTCAGCAGAAGAACCCCTTCACCCTCAAGGTCCTCACCACCCGAGGAGTTG CAGAAAGAACGCCCAGCTTCATGTATCCCCAGGGCACATCGAGCAGTCAGATGGTTCTCCGTGGCATGGA CCTGCTGCTGGAATGCATTGCCTCTGGCGTCCCAACACCAGACATTGCATGGTACAAGAAAGGTGGGGAC CTCCCATCTAACAAGGCCAAGTTCGAGAACTTTAATAAGGCTCTGCGCATCACCAATGTCTCTGAAGAGG ACTCTGGGGAGTATTTCTGCCTGGCCTCCAACAAGATGGGCAGCATCCGGCACACGATCTCGGTGAGAGT AAAGGCTGCTCCATACTGGCTGGATGAGCCCAAGAACCTGATCCTGGCTCCTGGGGAAGATGGGAGGCTG GTATGCCGAGCCAATGGGAACCCGAAGCCGACCGTGCAGTGGATGGTGAATGGAGAGCCTTTACAATCGG CACCACCCAATCCCAACCGTGAGGTAGCTGGAGACACTATCATCTTCCGGGATACTCAGATCAGCAGCAG GGCAGTGTACCAATGTAATACATCCAATGAACATGGCTACCTGCTGGCCAATGCCTTCGTCAGCGTGTTA GATGTACCCCCTCGGATGCTGTCTGCCCGCAACCAGCTCATCAGGGTGATCCTTTATAACCGGACACGGC TGGACTGTCCGTTCTTTGGGTCTCCCATCCCAACACTCCGATGGTTTAAGAATGGGCAAGGAAGCAACCT GGATGGCGGTAACTACCACGTCTACGAAAACGGCAGTCTAGAAATCAAGATGATTCGCAAAGAGGACCAA GGCATCTACACCTGTGTGGCCACCAACATCCTGGGCAAAGCCGAAAATCAAGTCCGCCTGGAGGTCAAAG

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ACCCCACCAGGATCTACAGGATGCCCGAGGACCAGGTGGCCAAGAGGGGCACCACGGTGCAGCTGGAGTG
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CAGAGGCCACATCACCAGTCAATGCCATCTATTCCCTTGCCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001160318

Insert Size: 3474 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_001160318.1, NP_001153790.1

RefSeq Size: 9647 bp

RefSeq ORF: 3474 bp

Locus ID: 269116

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 (4) represents use of an alternate promoter and 5' UTR, and has multiple differences in the coding region but maintains the reading frame, compared to variant 1. The resulting isoform (4) includes the third fibronectin type 3 (FNIII) repeat, lacks the mucin-like domain, and lacks two segments in the N-terminal and central regions, 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.