

## Product datasheet for MR220931

### Nfasc (NM\_182716) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Nfasc (NM\_182716) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Nfasc  
**Synonyms:** AA387016; D430023G06Rik; mKIAA0756; NF  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR220931 representing NM\_182716  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCCAGGCAGCAGGCGCCACCCTGGGTCCACATAGCCCTCATCTCTTCTCCTCAGCCTCGGAGGGG  
 CCATCGAGATCCGATGGACCCAAGCATTGAGATGAGCTGACCAACCCCAACTATCACCAAGCAGTC  
 CGTGAAGGACCACATCGTGGACCCTCGAGATAACATCCTGATTGAATGTGAAGCTAAAGGCAACCCCGCC  
 CCCAGTTTTCACTGGACTCGCAACAGCAGATTCTCAACATTGCCAAGGACCCACGGGTGTCCATGAGGA  
 GGAGATCTGGGACCTTGGTGTGACTTCCGAGTGGTGGCGGCCTGAGGAATACGAAGGGGAGTACCA  
 GTGCTTTGCCCGGAACAATTTGGCACTGCACTTAGCAACCGCATCCGCCTGCAGGTGTCCAATCTCCC  
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 CCCCACCCGGCCTCCCGTCCCCGTCATCTTCTGGATGAGCAGCTCCATGGAGCCATCACCCAGGACAA  
 GCGTGTCTCCAGGGTCAACAACGGGACCTGTACTTCTCCAACGTGATGCTGCAGGACATGCAGACCCGAC  
 TACAGTGAACGCGCGCTTCACTTCAACACACCATTCAGCAGAAGAACCCTTACCCTCAAGGTCC  
 TCACCACCCGAGGAGTTGCAGAAAGAAGCCAGCTTTCATGTATCCCAAGGCACATCGAGCAGTCAGAT  
 GGTCTCCGTGGCATGGACCTGCTGCTGGAATGCATTGCCTCTGGCGTCCAACACCAGACATTGCATGG  
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 CACGATCTCGGTGAGAGTAAAGGCTGCTCCATACTGGCTGGATGAGCCCAAGAACCTGATCTGGCTCCT  
 GGGGAAGATGGGAGGCTGGTATGCCGAGCCAATGGGAACCCGAAGCCGACCGTGCAGTGGATGGTGAATG  
 GAGAGCCTTTACAATCGGCACCACCAATCCCAACCGTAGGTAGCTGGAGACACTATCATCTTCCGGGA  
 TACTCAGATCAGCAGCAGGGCAGTGTACCAATGTAATACATCCAATGAACATGGCTACCTGCTGGCCAAT  
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 TGGCAAGGAAGCAACCTGGATGGCGGTAACCTACCACGTCTACGAAAACGGCAGTCTAGAATCAAGATG



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ATTCGCAAAGAGGACCAAGGCATCTACACCTGTGTGGCCACCAACATCCTGGGCAAAGCCGAAAATCAAG  
TCCGCCTGGAGGTCAAAGACCCACCAGGATCTACAGGATGCCCGAGGACCAGGTGGCCAAGAGGGGCAC  
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GAGACCCGAGAGACTTGGAAACAATGTACAGTGTGGGCTCTCGTACGTTGGGGCAGACGCTGTCT  
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CTGGTGTGATCCTTCTCATCGTCTGCTTCAAGAGGAGTGGAGTGGCAAGTACCCAGTGGGGAAA  
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CAACAAGCCCCTGCAGGGCAGCCAGACATCTTGATGGCACCATCAAGCAGCAGGAGAGCGATGACAGC  
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TCAAAAAGGACAAGGAGGAAACGGAGGGCAATGAGAGCTCAGAGGCCACATCACCAGTCAATGCCATCTA  
TTCCTTGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA

**Protein Sequence:** >MR220931 representing NM\_182716  
 Red=Cloning site Green=Tags(s)

MARQQAPPWVHIALILFLLSLGGAIEIPMDPSIQNELTQPPTITKQSVKDHIVDPRDNILIECEAKGNPA  
 PSFHWTRNSRFNIAKDRVSMRRRSGTLVIDFRSGGRPEEYEGEYQCFARNKFGTALSNRIRLQVSKSP  
 LWPKENLDPVVVQEGAPLTLQCNPPLPSPVIFWSSSMEPITQDKRVSQGHNGDLYFSNVMLQDMQTD  
 YSCNARFHFTHTIQQKNPFTLKVLTTRGVAERTPSFMYPQGTSSSQMVLRGMDLLECIASGVPTPDIAW  
 YKKGDLPSNKAKFENFKALRITNVSEEDSGEYFCLASNKMGSI RHTISVRVKAAPYWLDEPKNILAP  
 GEDGRLVCRANGPKPTVQWMVNGEPLQSAPPNPNREVAGDTIIFRDTQISSRAVYQCNTSNEHGYPVLLAN  
 AFVSVLVDVPPRMLSARNQLIRVILYNRTRLDPCFFGSP IPTLRWFKNGQGSNLDGGNYHYVENGSL EIKM  
 IRKEDQGIYTCVATNILGKAENQVRLEVKDPTRIYRMPEDQVAKRGTTVQLECRVKHDP SLKLT VSWLKD  
 DEPLYIGNRMKKEDDSL TIFGVAERDQGSYTCMASTELDQDLAKAYLTVLADQATPTNRLAALPKGRPDR  
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 ETRETWNVNTVWGSRYVVGQTPVYVPEIRVQAENDFGKGPEPDTIIGYSGEDLPSAPRRFRVRQP NLET  
 INLEWDHPEHPNGILIGYILRYVPFNGTKLGKQMVENFSPNQTKFSVQRADPVSRYRFLSARTQVGSGE  
 AATEESPAPPNEATPTAAPPTLPPTTVGTTGLVSTDATAALATSEATTVP IIP TVVPTT VATTIATTTT  
 TTAATTTTTTTESPPTTAGTKIHETAPDEQSIWNVTVLPNSKWANITWKHNFRPGTDFVVEYIDSNHTK  
 KTVPVKAQAQPIQLTDLFPGMTYLRVYSRDNEGISSTVITFMTSTAYTNQADIATQGWFI GLMCAIAL  
 LVLILLIVCFIKRSRGGKYPVREKDKVPLGPEDPKEDGSFDYSDENKPLQGSQTSLDGTIKQESDSS  
 LDVYGGEGEGQFNEDGSFIGQYTVKKDKKEETEGNESSEATSPVNAIYSLA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9001\\_f07.zip](https://cdn.origene.com/chromatograms/mm9001_f07.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

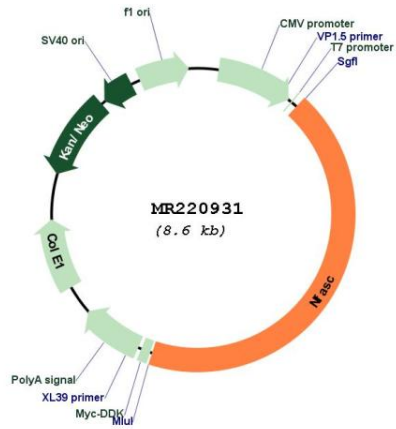


**ACCN:** NM\_182716

**ORF Size:** 3720 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_182716.4</a> , <a href="#">NP_874385.1</a>
<b>RefSeq Size:</b>	9795 bp
<b>RefSeq ORF:</b>	3723 bp
<b>Locus ID:</b>	269116
<b>UniProt ID:</b>	<a href="#">Q810U3</a>
<b>Cytogenetics:</b>	1 57.42 cM
<b>MW:</b>	138.4 kDa
<b>Gene Summary:</b>	<p>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<sup>+</sup> (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]</p>

Product images:



Circular map for MR220931