OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC327136

Neurofascin (NFASC) (NM_001160333) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Neurofascin (NFASC) (NM_001160333) Human Untagged Clone
Tag:	Tag Free
Symbol:	NFASC
Synonyms:	NEDCPMD; NF; NRCAML
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

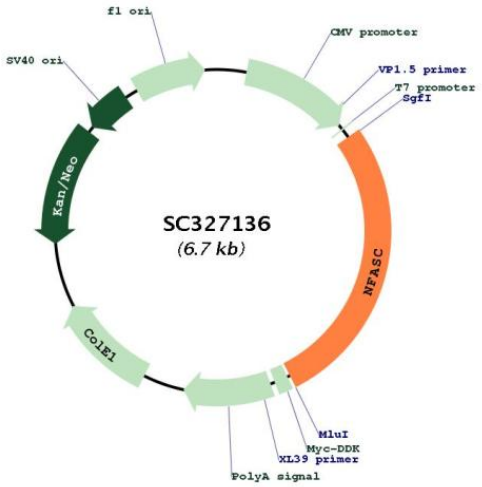
Fully Sequenced ORF:

>SC327136 representing NM_001160333.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCCAGGCAGCCACCGCCGCCCTGGGTCCATGCAGCCTTCCTCCTCTGCCTCCTCAGTCTTGGCGGA
GCCATCGAAATTCCTATGGATCTGACGCAGCCGCCAACCATCACCAAGCAGTCAGCGAAGGATCACATC
GTGGACCCCCGTGATAACATCCTGATTGAGTGTGAAGCAAAAGGGAACCCTGCCCCCAGCTTCCACTGG
ACACGAAACAGCAGATTCTTCAACATCGCCAAGGACCCCCGGGTGTCCATGAGGAGGAGGTCTGGGACC
CTGGTGATTGACTTCCGCAGTGGCGGGCGGCCGGAGGAATATGAGGGGGAATATCAGTGCTTCGCCCGC
AACAAATTTGGCACGGCCCTGTCCAATAGGATCCGCCTGCAGGTGTCTAAATCTCCTCTGTGGCCCAAG
GAAAACCTAGACCCTGTCGTGGTCCAAGAGGGCGCTCCTTTGACGCTCCAGTGCAACCCCCCGCCTGGA
CTTCCATCCCCGGTCATCTTCTGGATGAGCAGCTCCATGGAGCCCATCACCCAAGACAAACGTGTCTCT
CAGGGCCATAACGGAGACCTATACTTCTCCAACGTGATGCTGCAGGACATGCAGACCGACTACAGTTGT
AACGCCCGCTTCCACTTCACCCACACCATCCAGCAGAAGAACCCTTTCACCCTCAAGGTCCTCACCACC
CGAGGAGTTGCAGAAAGAACACCAAGCTTCATGTATCCCCAGGGCACCGCGAGCAGCCAGATGGTGCTT
CGTGGCATGGACCTCCTGCTGGAATGCATCGCCTCCGGGGTCCCAACACCAGACATCGCATGGTACAAG
AAAGGTGGGGACCTCCCATCTGATAAGGCCAAGTTTGAGAACTTTAATAAGGCCCTGCGTATCACAAAT
GTCTCTGAGGAAGACTCCGGGGAGTATTTCTGCCTGGCCTCCAACAAGATGGGCAGCATCCGGCACACG
ATCTCGGTGAGAGTAAAGGCTGCTCCCTACTGGCTGGACGAACCCAAGAACCTTATTCTGGCTCCTGGC
GAGGATGGGAGACTGGTGTGTCGAGCCAATGGAAACCCCAAACCCACTGTCCAGTGGATGGTGAATGGG
GAACCTTTGCAATCGGCACCACCTAACCCAAACCGTGAGGTGGCCGGAGACACCATCATCTTCCGGGAC
ACCCAGATCAGCAGCAGGGCTGTGTACCAGTGCAACACCTCCAACGAGCATGGCTACCTGCTGGCCAAC
GCCTTTGTCAGTGTGCTGGATGTGCCGCCTCGGATGCTGTCGCCCCGGAACCAGCTCATTCGAGTGATT
CTTTACAACCGGACGCGGCTGGACTGCCCTTTCTTTGGGTCTCCCATCCCCACACTGCGATGGTTTAAG
AATGGGCAAGGAAGCAACCTGGATGGTGGCAACTACCATGTTTATGAGAACGGCAGTCTGGAAATTAAG
ATGATCCGCAAAGAGGACCAGGGCATCTACACCTGTGTCGCCACCAACATCCTGGGCAAAGCTGAAAAC
CAAGTCCGCCTGGAGGTCAAAGACCCCACCAGGATCTACCGGATGCCCGAGGACCAGGTGGCCAGAAGG
GGCACCACGGTGCAGCTGGAGTGTCGGGTGAAGCACGACCCCTCCCTGAAACTCACCGTCTCCTGGCTG
AAGGATGACGAGCCGCTCTATATTGGAAACAGGATGAAGAAGGAAGACGACTCCCTGACCATCTTTGGG
GTGGCAGAGCGGGACCAGGGCAGTTACACGTGTGTCGCCAGCACCGAGCTAGACCAAGACCTGGCCAAG
GCCTACCTCACCGTGCTAGGTAACTGCCCATGCTCACCCTGGCACTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN:	NM_001160333
Insert Size:	1842 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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_001160333.1
RefSeq Size:	2509 bp
RefSeq ORF:	1842 bp
Locus ID:	23114
UniProt ID:	O94856
Cytogenetics:	1q32.1

Protein Families:	Transmembrane
Protein Pathways:	Cell adhesion molecules (CAMs)
MW:	68.9 kDa
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 (6) lacks the second coding exon and uses an alternate 3' coding region and 3' UTR, compared to variant 1. The resulting isoform (5) lacks an internal domain and has a substantially shorter and distinct C-terminus that lacks the fibronectin domains, compared to isoform 1.