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Product datasheet for SC108536

NrCAM (NM_005010) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NrCAM (NM_005010) Human Untagged Clone
Tag:	Tag Free
Symbol:	NRCAM
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_005010, the custom clone sequence may differ by one or more nucleotides

ATGCAGCTTAAAATAATGCCGAAAAAGAAGCGCTTATCTGCGGGCAGAGTGCCCCTGATTCTCTTCCTGT
GCCAGATGATTAGTGCACTGGAAGTACCTCTTGATCTGGTACAGCCTCCAACCATCACCCAACAGTCTCC
AAAAGATTACATTATTGACCCTCGGGAGAATATTGTAATCCAGTGTGAAGCCAAAGGGAAACCGCCCCCA
AGCTTTTCCTGGACCCGTAATGGGACTCATTTTGACATCGATAAAGACCCTCTGGTCACCATGAAGCCTG
GCACAGGAACGCTCATAATTAACATCATGAGCGAAGGGAAAGCTGAGACCTATGAAGGAGTCTATCAGTG
TACAGCAAGGAACGAACGCGGAGCTGCAGTTTCTAATAACATTGTTGTCCGCCCATCCAGATCACCATTG
TGGACCAAAGAAAAACTTGAACCAATCACACTTCAAAGTGGTCAGTCTTTAGTACTTCCCTGCAGACCCC
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AGTTTCTCAAGGTTTGAATGGGGACCTTTATTTTTCCAATGTCCTCCCAGAGGACACCCGCGAAGACTAT
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CAGTGGATGAATTGAATGACACTATAGCTGCTAATTTGAGTGACACTGAGTTTTATGGTGCTAAATCAAG
TAGAGAGAGGCCACCAACATTTTTAACTCCAGAAGGCAATGCAAGTAACAAAGAGGAATTAAGAGGAAAT
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AGACTCTGGAAATTACCAATGTATAGCAAAAAACGCATTAGGAGCCATCCACCATACCATTTCTGTTAGA
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TGATCTGCAGAGCTAATGGCAACCCCAAACCCAGAATTAGCTGGTTAACAAATGGAGTCCCAATAGAAAT
TGCCCCTGATGACCCCAGCAGAAAAATAGATGGCGATACCATTATTTTTTCAAATGTTCAAGAAAGATCA
AGTGCAGTCTATCAGTGCAATGCCTCTAATGAATATGGATATTTACTGGCAAACGCATTTGTAAATGTGC
TGGCTGAGCCACCACGAATCCTCACACCTGCAAACACACTCTACCAGGTCATTGCAAACAGGCCTGCTTT
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AGATCCTACATGGATCGTTAAACAGCCCGAATATGCAGTTGTGCAAAGAGGGAGCATGGTGTCCTTTGAA
TGCAAAGTGAAACATGATCACACCTTATCCCTCACTGTCCTGTGGCTGAAGGACAACAGGGAACTGCCCA

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GTGATGAAAGGTTCACTGTTGACAAGGATCATCTAGTGGTAGCTGATGTCAGTGACGATGACAGCGGGAC
CTACACGTGTGTGGCCAACACCACTCTGGACAGCGTCTCCGCCAGCGCTGTGCTTAGCGTTGTTGATGTC
CCAAATCCTCCCTTTGACTTAGAACTGACAGATCAACTTGACAAAAGTGTTCAGCTGTCATGGACCCCAG
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GAGTCCCCAGTGCTCCCTCGTCTTTGAAGATTGTGAATCCAACACTGGACTCTCTCACTTTGGAATGGGA
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TCAGACAGGACTGTGAAAAAAGAAGATAGTGACGACAGCCTAGTTGACTATGGAGAAGGGGTTAATGGCC
AGTTCAATGAGGATGGCTCCTTTATTGGACAATACAGTGGTAAGAAAGAGAAAGAGCCGGCTGAAGGAAA
CGAAAGCTCAGAGGCACCTTCTCCTGTCAACGCCATGAATTCCTTTGTTTAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005010 unedited
NGGGTAAATTTTTGATATTTGTATACGACTTACTATAGGCGGCCGCGCAATTCGCACGAG
GCTTCGTCGAGAACGGAGGACACCGGCGGTCCAGGGTCCTGGGCAGTCGCGCCAGAGCTG
AGCGGAGGGCGCGGCGCGAGAACGAATCTTTGTGACATTCTCTCTCAGCATTCTTTATCC
CCTGTTTGCTGAAGACTTCGACAAAAGCTGGTCTTAGCTGTTGGCATTCTCCTGAGAAAA
GGATAGCTTCAGAAATCAGAAAAACATTTGGGAGGTGTCTAGCCCAGTGGACCTTCTGAA
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CTTCAAAGTTTCCCGCATGAAAATTACTTAAACGTTGCACACAACGTTTCACAAAATCTT
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CTGTGCCAGATGATTAGTGCACTGGAAGTACCTCTTGATCCAAAACTTCCTGAAGACTTG
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GGGACTCAATTTGACATCGATAAGACCCTCTGGTGACATGAAACTGGGGCACGAACGCTC
TTATTTACATCTGGGCCAAAGGGAAGCTTAGACCCTTGAAGGTCTTTCACGTACCACAAG
GACCAACCCGCACTGCCGTTCTTATACACTGTGTGCCCCCTTCA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_005010 unedited
ACCGCGGGCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
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GACCCTTTCATGCACAGATAAATTTCGCATTTACCAGTATGGAAAAGGAAAAAATGTAGT
TTTATTGTTCTCCCAAAATATTGGCAAATTTAAAGTAACTTTTAATCTTTGGGCTCTCTG
ATGCCAAGGCAAACCTGTTTTGTCTTTTTATATTTTCAAAAAACAGGGGGATCTGTGAAA
AATGAATTTAGAGACCTGAAAGTTTTTAGGGCCATCTTTACCTGGGATTACTTTAAATTA
TGCTTTACCTACATATATCAAACATGCCAGGTTACTAGGCCTACTGTGCCCCATAGGCAA
AGCTCTGAAGATTTCATCGAAAAATCTGCTGTCAATACGTAAAAAAGTTCACTATTTCAG
TTTCACAGCAAAAAAGGTGGGGGGAGGGGGGAACCCAATAGATATTTAAGTAGATGCTTT
CCAATCCCATTCACTGCATTAATTAGCTTACCTCTTATACAGTACAACATAAACATTGCA
TGTTTATTTGTATGTAACACCTATAAGCATATAGCATCTACATTTTAAGTGTATTTACAA
ATTCAACAAAATATCTACATATAAAAAGCTTTACTTAAAATTAAACTTGATGCAAGTTAT
GAGAAACCAATTTATTGGCAAATGAAACTGAGCATTCCTTCAACCATAGGTTGTTATAGA
TTTTCATATTTTGAAGGGGACCCCATTGATAGATTTGGTTATGATAACCATNGATATATA
TTACTTTTTAAACTGCAAATGGTATCCCTTGGACCGGTGGCCTCTTTAGCACTTGCCTGA
TTCTTAAATTCTGAAAGGATCCCATACAATTTGCATCACCGTGTTAAGGGGG

Restriction Sites: NotI-NotI

ACCN: NM_005010

Insert Size: 6450 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_005010.2, NP_005001.2

RefSeq Size: 6322 bp

RefSeq ORF: 3552 bp

Locus ID: 4897

UniProt ID: Q92823

Cytogenetics: 7q31.1

Domains: ig, IGc2, IG, FN3

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Cell adhesion molecules (CAMs)

Gene Summary: Cell adhesion molecules (CAMs) are members of the immunoglobulin superfamily. This gene encodes a neuronal cell adhesion molecule with multiple immunoglobulin-like C2-type domains and fibronectin type-III domains. This ankyrin-binding protein is involved in neuron-neuron adhesion and promotes directional signaling during axonal cone growth. This gene is also expressed in non-neural tissues and may play a general role in cell-cell communication via signaling from its intracellular domain to the actin cytoskeleton during directional cell migration. Allelic variants of this gene have been associated with autism and addiction vulnerability. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (2) differs in the 5' UTR and lacks five in-frame exons in the coding region, compared to variant 1. The encoded protein (isoform B) is shorter than isoform A.