

## Product datasheet for SC302851

### NrCAM (NM\_001037132) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NrCAM (NM_001037132) Human Untagged Clone
Tag:	Tag Free
Symbol:	NRCAM
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_001037132 edited

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ATGCAGCTTAAAATAATGCCGAAAAAGAAGCGCTTATCTGCGGGCAGAGTGCCCTGATT
CTCTTCTGTGCCAGATGATTAGTGCAC TGGAAGTACCTCTTGATCCAAAACCTTCTTGAA
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TATCAGTGTACAGCAAGGAACGAACGCGGAGCTGCAGTTTCTAATAACATTGTTGTCGC
CCATCCAGATCACCATTGTGGACCAAAGAAAACTTGAACCAATCACACTTCAAAGTGGT
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AGCATGGTGCCTTTGAATGCAAAGTGAAACATGATCACACCTTATCCCTCACTGCCTG  
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 GACTCTGGTTTTGTGAGTTCAGAGGATGTGTTGAGACAGGCCAGCGATGGCAAGCCGG  
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 CCTTCAGACAGGACTGTGAAAAAGAAGATAGTGACGACAGCCTAGTTGACTATGGAGAA  
 GGGGTTAATGGCCAGTTCAATGAGGATGGCTCCTTTATTGGACAATACAGTGGTAAGAAA  
 GAGAAAAGCCGGCTGAAGGAAACGAAAGCTCAGAGGCACCTTCTCTGTCAACGCCATG  
 AATTCCTTTGTTAA

**Restriction Sites:** Please inquire  
**ACCN:** NM\_001037132  
**Insert Size:** 6700 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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. [More info](#)

**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\\_001037132.1](#), [NP\\_001032209.1](#)

**RefSeq Size:** 6659 bp

**RefSeq ORF:** 3915 bp

**Locus ID:** 4897

**UniProt ID:** [Q92823](#)

**Cytogenetics:** 7q31.1

**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 (1) encodes the longest isoform (A).