

Product datasheet for **SC302852**

NrCAM (NM_001037133) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NrCAM (NM_001037133) Human Untagged Clone
Tag:	Tag Free
Symbol:	NRCAM
Synonyms:	KIAA0343; MGC138845; MGC138846
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_001037133 edited GTCTGATGTGTGCTGTTGCTCTCCTTATCTTAATTTTGCTGATTGTTGCTTCATCAGAA GAAACAAGGGTGGTAAATATCCAGTTAAAGAAAAGGAAGATGCCCATGCTGACCCGAAA TCCAGCCTATGAAGGAAATGGAATTTTGTAGGTCTTTGAAAGTGATGCAGAAGACCACA AGCCTTTGAAAAAAGGAAGTCGAACTCCTTCAGACAGGACTGTGAAAAAAGAGATAGTG ACGACAGCCTAGTTGACTATGGAGAAGGGTTAATGGCCAGTTCAATGAGGATGGCTCCT TTATTGGACAATACAGTGGTAAGAAAGAGAAAGAGCCGGCTGAAGGAAACGAAAGCTCAG AGGCACCTTCTCCTGTCAACGCCATGAATTCCTTTGTTAATTTTAAAGCTCTTTGCCAA TATTCCATTTCTAGAATGTTTATCCTAAGCACTTGTTTGTGAGCCCTCATACTATG AACATATGGGTAGAGAGTATATTTCTGCTGTATGTTAGTATTATGAGAATAGTTACAGC AAAAACATAACTCAGTCAAATGATATGTTAATATGAACTGGAATGCAAAGTGCATACTTT TTCATTCAAATGGGTATTCTTGATTTCCTCAGAACTGATAAAAAA
Restriction Sites:	Please inquire
ACCN:	NM_001037133
Insert Size:	650 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.



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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:	<ol style="list-style-type: none">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:	<u>NM_001037133.1</u> , <u>NP_001032210.1</u>
RefSeq Size:	2821 bp
RefSeq ORF:	264 bp
Locus ID:	4897
Cytogenetics:	7q31.1
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Cell adhesion molecules (CAMs)
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) lacks multiple 5' exons and contains two alternate exons, compared to variant 1. These differences result in translation initiation from a downstream AUG and an isoform (C) which is shorter and has a distinct N-terminus, compared to isoform A.</p>