

Product datasheet for **RG220506**

NrCAM (NM_001037132) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NrCAM (NM_001037132) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NRCAM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG220506 representing NM_001037132 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

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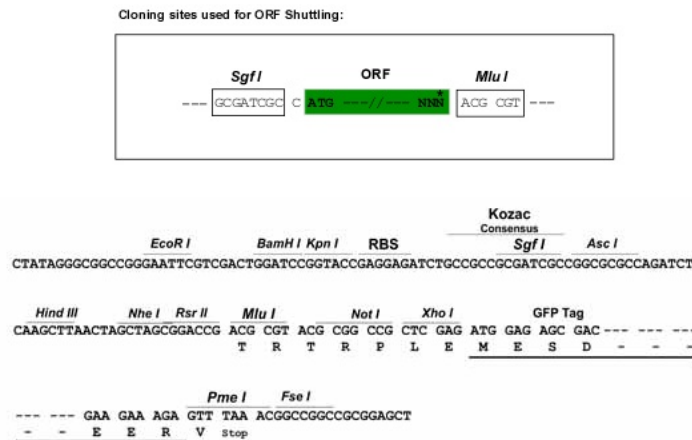
Protein Sequence: >RG220506 representing NM_001037132
 Red=Cloning site Green=Tags(s)

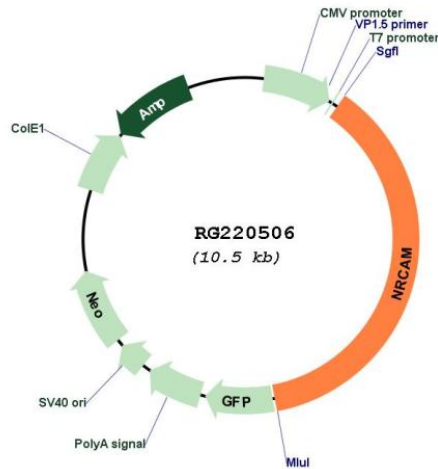
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 LSVVAPTPTAPVYDVPNPPFDLELTDQLDKSVQLSWTPGDDNNSPITKFIIEYEDAMHKPGLWHHQTVEV
 SGTQTTAQLKLSPVVNSFRVMVNSIGKSLPSEASEQYLTKASEPDKNPTAVEGLGSEPDNLVITWKPL
 NGFESNGPGLQYKYSWRQKDGDEWTSVVVANVSKYIVSGTPTFPVYLIKVQALNDMGFAPEPAVVMGHS
 GEDLPMVAPGNVRVNVNSTLAEVHWDPVPLKSI RGHLLQGYRIYYWKTQSSSKRNRRIIEKKILTFQGSK
 THGMLPGLPEPFSHYTLNVRVVNGKGE GPASPDRVFNTPEGVPSAPSSLKI VNP TLDLSLLEWDPSPHPNG
 ILTEYTLKYQPINSTHELGPLVDLKIPANKTRWTLKLNLFSTRYKFYFYAQT SAGSGSQITEEAVTTVDE
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 FGLKGLMPGTAYKVRVAVGDSGFVSSDEVFETGPAMASRQVDIATQGWFI GLMCAVALL ILLIVCFI
 RRNKGKYPVKEKEDAHADPEIQPMKEDDGTGFEYSDAEDHKPLKKSRTPSDRTVK KEDSDDSLVDYGE
 GVNGQFNEDGSFIGQYSGKKEKEPAEGNESSEAPSPVNAMNSFV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001037132

ORF Size: 3912 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 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001037132.4](#)

RefSeq Size: 6305 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]