

Product datasheet for **RC208242**

Neuronal calcium binding protein (NECAB3) (NM_031231) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Neuronal calcium binding protein (NECAB3) (NM_031231) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Neuronal calcium binding protein
Synonyms:	APBA2BP; dj63M2.4; dj63M2.5; EFCBP3; NIP1; STIP3; SYTIP2; XB51
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC208242 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGTGC GCGGGGCTGCTACCGTGTGCCTGCTCCGGCCGCCCGCGCCCCAGCCCCAGCCCCAGACCC
CGCGGCACCCCCAGCTCGCGCCGACCCGGGGCCCGCGGACACACGCTCTTCCAGGACGTTTTCCGCAG
AGCAGACAAGAATGATGATGGGAAGCTCTCATTTGAGGAATCCAGAATTACTTTGCCGATGGGGTTCTC
AGCCTGGGGGAGCTGCAGGAAGTTCAGCGGCATTGATGGGCATCTACCGACAATTTAGAAACAGAAA
AACTGTGTGACTACTTCTCAGAGCACCTGGGTGTCTACCGGCCGGTGTGGCTGCATTGGAATCGCTGAA
CCGTGCAGTGCTCGCTGCCATGGATGCCACCAAGCTGGAGTACGAGAGGGCCTCCAAAGTGGACCACTTT
GTGACGCGCTTCTGCTGCGGGAGACGGTGAGCCAGCTGCAAGCCCTTCAGAGCTCGCTGGAGGGGGCGT
CAGATACCCTGGAGGCCAGGCCATGGCTGGCGGTGAGATGCAGAGAGCGTGGAGGCGCAGAGCAGGCT
CTGCGGCAGCCGGCGGGCAGGACGCCGAGCCCTGAGGAGTGTGAGCCGGTCCATCCACCTGGTCCCCCGGC
TCTTCTGACACAGGGCGCAGCTCAGAGGCCGAGATGAGTGGCGGCTCCAGGTGAACCGCTCCAGGAGC
TCATCGACCAGCTCGAGTGCAAGGCCCGCGCTGGAACCCCTGCGTGAAGAGGACCTGGCCAAGGGGCC
TGACTTGACATCCTCATGGCCAGAGGCAGGTCCAGGTGGCAGAGGAAGGCCTGCAGGACTTCCACCGA
GCCCTGCGCTGCTATGTGGAATTCAGAGGGCCAGAGCCATTGTCTGCATGTGTCGCCCCAGAAGATGC
TGGACGGTGCCTCCTTACCCTGTATGAGTTCTGGCAGGATGAGGCCTCCTGGAGAAGGCCACGACGATC
GCCTGGCAGCAAGGCCTTCCAGCGCATCTCATGACCACCTGCGGGCCCGGACACCCTCACCCTGTG
TTCTTCCAGCCTCCTGGTGGATAATGAATAACAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC208242 protein sequence
 Red=Cloning site Green=Tags(s)

MACAGLLTVCLLRPPAPQPQTPRHPQLAPDPGPAGHTLFQDVFRADKNDGKLSFEEFQNYFADGVL
 SLGELQELFSGIDGHLTDNLETEKLCDFSEHLGVYRPVLAALSLNRAVLAAMDATKLEYERASKVDQF
 VTRFLLRETVSQQLQALQSSLEGASDTLEAQAHGWRSDAESVEAQSRLCGSRRAGRRLRSVSRSTWSPG
 SSDTGRSSEAEMQWRLQVNRLQELIDQLECKAPRLEPLREEDLAKGPDHLILMAQRQVQVAEEGLQDFHR
 ALRCYVDFTGAQSHCLHVSQAQMLDGASFTRYEFWQDEASWRRHQQSPGSKAFQIRILIDHLRAPDRLTTV
 FFPASWWIMNNN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6090_e05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_031231

ORF Size: 1086 bp

OTI Disclaimer: 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_031231.4](#)

RefSeq Size: 1961 bp

RefSeq ORF: 1089 bp

Locus ID: 63941

UniProt ID: [Q96P71](#)

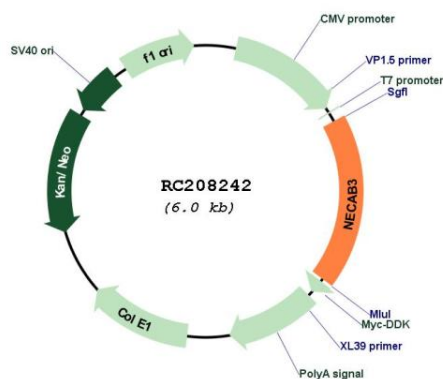
Cytogenetics: 20q11.22

Domains: EFh

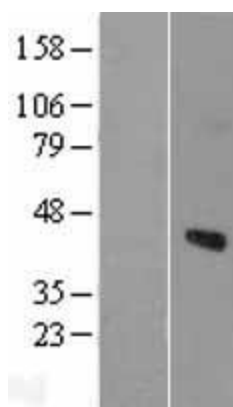
MW: 40.8 kDa

Gene Summary: The protein encoded by this gene interacts with the amino-terminal domain of the neuron-specific X11-like protein (X11L), inhibits the association of X11L with amyloid precursor protein through a non-competitive mechanism, and abolishes the suppression of beta-amyloid production by X11L. This protein, together with X11L, may play an important role in the regulatory system of amyloid precursor protein metabolism and beta-amyloid generation. The protein is phosphorylated by NIMA-related expressed kinase 2, and localizes to the Golgi apparatus. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

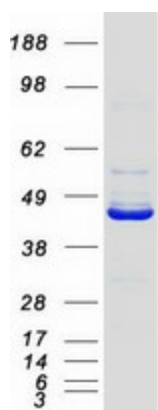
Product images:



Circular map for RC208242



Western blot validation of overexpression lysate (Cat# [LY410597]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208242 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NECAB3 protein (Cat# [TP308242]). The protein was produced from HEK293T cells transfected with NECAB3 cDNA clone (Cat# RC208242) using MegaTran 2.0 (Cat# [TT210002]).