

Product datasheet for **MC216617**

Cacnb3 (NM_001044741) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cacnb3 (NM_001044741) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cacnb3
Synonyms:	Beta3; Ca(v)beta3; CAB3; Cchb3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC216617 representing NM_001044741
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTTTTTCTGACTCCAGTGCACCTTCCTGCTGAACGAGGGTTAGCCGACTCTACACCAGCCGCC
 CCTCTCTGGACTCAGACGTCTCCTGGAGGAGACCGGAGAGTGCCCGCGAGAAGTGAGAGTCAGGC
 TCAGCAGCAGCTGAAAGAGCCAAGCACAAACCTGTGGCATTGCTGTGAGGACCAATGTGAGCTACTGT
 GGGTTCTGGATGAGGAGTGCCCGTCCAGGGCTCTGGAGTCAACTTTGAGGCCAAAGATTTCTGCACA
 TAAAGAGAAGTACAGCAATGACTGGTGGATCGGGAGGCTAGTAAAGAGGGCGGAGACATCGCCTTCAT
 CCCCAGCCCCAACGCCTGGAGAGCATCCGGCTCAAACAGGAACAGAAGGCCAGGAGATCTGGAAACCT
 TCCAGCCTGGGTGACATTGGCAACCGACGCTCTCCTCCTCGTCTTAGCCAAGCAGAAGCAAAGCAGG
 CGGAACATGTTCCCCGTATGATGTGGTGCCCTCCATGCGGCCGTGTGGTCTGGTGGGACCTCTCTGAA
 AGGCTATGAGGTCACGGACATGATGCAGAAGGCGCTCTTCGACTTCCTTAAACACAGTTTGATGGCAGG
 ATCTCCATCACACGCGTCACGGCCGACCTCTCGCTGGCCAAGCGCTCTGTGCTCAACAATCCTGGCAAGA
 GGACCATCATTGAGCGCTCCTCCGCCGCTCCAGCATTGCTGAAGTGCAGAGTGAGATTGAGCGCATATT
 CGAGCTGGCCAAATCCCTGCAGCTAGTGGTGTGGATGCTGACACCATCAACCACCCAGCACAACTTGCC
 AAGACCTCACTGGCTCCCATCATCGTCTTTGTCAAAGTGTCTCGCCAAAGGTAAGTGCAGCGACTGATCC
 GCTCCAGGGGAAAGTACAGATGAAGCACCTCACTGTACAGATGATGGGTACGATAAGCTGGTTCAGTG
 CCCACCCGAGTCATTGACGTGATTCTGGATGAGAACCAGCTAGAAGTGCCTGTGAGCACCTGGCTGAA
 TACTTAGAGGTTTACTGGCGAGCGACCCACCACCCAGCACCCGGGCCCGGACTGCTGGTCCGCCTAGTG
 CCATCCCTGGACTTCAGAACCAGCAGCTGCTGGGGGAGCGAGTGGAGGAGCACTACCCCTGGAGAGGGA
 CAGCCTGATGCCCTCAGATGAGGCCAGCGAGAGCTCCCGCCAGGCTGGACCGGATCTTCACAGCGCAGC
 TCTCGCATCTGGAGGAGGACTATGCAGATGCCTACCAGGACCTGTACCAGCCTCACCGCCAACACACCT
 CGGGGTGCCAGTGCTAACGGGCACGACCCCCAAGACCGGCTCCTAGCCAGGACTCGGAGCATGACCA
 CAATGACCGGAACTGGCAGCGTAACCGGCTTGCCCAAGGACAGCTAC**TGA**

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII

ACCN: NM_001044741

Insert Size: 1452 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:	<u>NM_001044741.2, NP_001038206.1</u>
RefSeq Size:	2568 bp
RefSeq ORF:	1452 bp
Locus ID:	12297
Cytogenetics:	15 54.64 cM
Gene Summary:	<p>Regulatory subunit of the voltage-gated calcium channel that gives rise to L-type calcium currents (PubMed:24751537). Increases CACNA1B peak calcium current and shifts the voltage dependencies of channel activation and inactivation (By similarity). Increases CACNA1C peak calcium current and shifts the voltage dependencies of channel activation and inactivation (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR and 5' coding region, compared to variant 1. The encoded isoform (2) has a shorter and distinct N-terminus, compared to isoform 1.</p>