

## Product datasheet for **MC216615**

### **Cacnb1 (NM\_001159319) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cacnb1 (NM_001159319) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cacnb1
Synonyms:	CAB1; Cchb1; Cchl1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC216615 representing NM\_001159319  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGTCCAGAAGAGCGGCATGTCCCGGGCCCTTACCCACCTTCCAAGAGATCCCTATGGAGGTCTTCG  
ACCCCAGCCCACAGGGCAAGTACAGCAAGAGGAAAGGGCGTTCAAAGGTACAGACGGGAGTACGTCCTC  
GGATACAACATCCAACAGCTTCGTCGCCAGGGCTCAGCAGAGTCTACACGAGCCGACCATCAGACTCT  
GATGTGTCTCTGGAGGAGGACCGGAAGCCTTAAGGAAGGAGGCAGAGCGCCAGGCCTTAGCCCAGCTCG  
AGAAAGCCAAGACCAAACAGTGGCTTTTGTGTTCCGACAAATGTTGGCTACAATCCGTCTCCAGGGGA  
TGAGGTGCCTGTACAGGGAGTGGCCATCACCTTTGAGCCCAAGGACTTCTACACATCAAGGAGAAGTAC  
AATAATGACTGGTGGATTGGCGGCTGGTGAAGGAAGGCTGCGAGGTTGGCTTCATCCCCAGCCCGGTCA  
AACTGGACAGCCTTCGTCTGCTGCAGGAACAGACCCTGCGCCAGAACCCTCAGCTCCAGCAAGTCAGG  
TGACAACCTCCAGTTCAGTCTGGGAGATGTGGTACTGGCACCCGCCCCACACCCCTGCCAGTGCC  
AAACAGAAGCAGAAATCGACAGAGCACGTGCCCCCTATGACGTGGTGCCTTCCATGAGGCCCATCATCC  
TGGTGGGACCGTCGCTCAAGGGCTATGAGGTGACAGACATGATGCAGAAAGCGTTGTTTACTTCCCTCAA  
GCATCGGTTTGTATGGCAGGATTTCCATCACCCGGGTAACAGCTGACATTTCCCTGGCCAAACGCTCCGTC  
CTCAACAACCCAGCAAAACACATCATCATTGAGCGCTCCAACACGCGTTCAGCCTGGCTGAGGTACAGA  
GTGAAATTGAGAGGATCTTCGAGCTGGCCCGGACCTTGACAGTGGTGCCTTGGACGCTGACACCATCAA  
CCACCCAGCCCAGCTCTCAAACGTCGCTGGCCCCATCATTGTTTACATCAAGATCACATCTCCCAAG  
GTACTGCAGAGGCTCATCAAATCCCGAGGGAAGTCTCAATCCAACACCTCAATGTCCAATAGCAGCCT  
CGGAGAAGCTGGCACAGTGTCCCCCGAAATGTTTGACATAATCCTGGACGAGAACCAATTGGAAGATGC  
CTGCGAGCACCTGGCTGAGTACTTGAAGCCTACTGGAAGGCCACACATCCGCCTAGCAGCACGCCACCC  
AATCCGCTGCTGAACCGACCATGGCTACCGCAGCTCTGGCTGCCAGCCCTGCCCCGTCTCAACCTCC  
AGGTACAGGTGCTCACCTCGCTCAGGAGAAATCTCAGCTTCTGGGGCGGGCTGGAGGCCTCACCGCGGG  
AGGCGACGCGGTGGCCAGCCTCAGGAGCACGCCAT**GTAG**

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
TGGATTACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-RsrII

**ACCN:** NM\_001159319

**Insert Size:** 1440 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: [NM\\_001159319.2](#), [NP\\_001152791.1](#)

RefSeq Size: 1738 bp

RefSeq ORF: 1440 bp

Locus ID: 12295

UniProt ID: [Q8R3Z5](#)

Cytogenetics: 11 61.5 cM

**Gene Summary:** Regulatory subunit of L-type calcium channels. Regulates the activity of L-type calcium channels that contain CACNA1A as pore-forming subunit (By similarity). Regulates the activity of L-type calcium channels that contain CACNA1C as pore-forming subunit and increases the presence of the channel complex at the cell membrane. Required for functional expression L-type calcium channels that contain CACNA1D as pore-forming subunit. Regulates the activity of L-type calcium channels that contain CACNA1B as pore-forming subunit (By similarity). [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (3) contains an alternate coding exon, lacks another alternate coding exon, and differs in the 3' UTR and coding sequence compared to variant 5. The resulting isoform (C) has a shorter and distinct C-terminus and lacks an alternate internal segment compared to isoform E. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.