

## Product datasheet for **MC216433**

### **Cacnb1 (NM\_001159320) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cacnb1 (NM_001159320) 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



[View online »](#)

**Fully Sequenced ORF:** >MC216433 representing NM\_001159320  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAGGTGCCAGCCGACCGACCTGGTAGTGGGCTCAGCAGAGTCTACACGAGCCGACCATCAGACTCTG  
 ATGTGTCTCTGGAGGAGACCGGAAGCCTTAAGGAAGGAGGCAGAGCGCCAGGCCTTAGCCAGCTCGA  
 GAAAGCCAAGACCAAACCAAGTGGCTTTTGTGTTTCGGACAAATGTTGGCTACAATCCGTCTCCAGGGGAT  
 GAGGTGCCTGTACAGGGAGTGGCCATCACCTTTGAGCCCAAGGACTTCCTACACATCAAGGAGAAGTACA  
 ATAATGACTGGTGGATTGGGCGCTGGTGAAGGAAGGCTGCGAGGTTGGCTTCATCCCCAGCCCGGTCAA  
 ACTGGACAGCCTTCGTCTGCTGCAGGAACAGACCCTGCGCCAGAACCGCCTCAGCTCCAGCAAGTCAGGT  
 GACAACTCCAGTTCAGTCTGGGAGATGTGGTACTGGCACCCGCGCCACACCCCTGCCAGTGGTA  
 ATGAAATGACTAACTTTGCCTTTGAGCTAGACCCCTAGAGTTAGAGGAGGAGGAGGCAGAGCTAGGGGA  
 GCACGGCGGCTCAGCCAAGACTAGCGTGAAGCAGTGTACCACGCCGCCACCCACGGCAAGCGCATCCCC  
 TTCTTTAAGAAGACAGAGCAGCTGCCCCCTATGACGTGGTGCCTTCCATGAGGCCCATCATCCTGGTGG  
 GACCGTCGCTCAAGGGCTATGAGGTGACAGACATGATGCAGAAAGCGTTGTTGACTTCCTCAAGCATCG  
 GTTTGATGGCAGGATTTCCATCACCCGGGTAACAGCTGACATTTCCCTGGCCAAACGCTCCGTCTCAAC  
 AACCCAGCAAACACATCATATTGAGCGCTCCAACACGCGTTCCAGCCTGGCTGAGGTACAGAGTGAAA  
 TTGAGAGGATCTTCGAGCTGGCCCGACCTTGCAGCTGGTTCGCTTGGACGCTGACACCATCAACCACCC  
 AGCCAGCTCTCTAAACGTGCTGGCCCCATCATTGTTTACATCAAGTACATCTCCAAGTACTG  
 CAGAGGCTCATCAAATCCGAGGGAAGTCTCAATCCAACACCTCAATGTCCAATAGCAGCCTCGGAGA  
 AGCTGGCACAGTGTCCCCCGAAATGTTTGACATAATCCTGGACGAGAACCAATTGGAAGATGCCTGCGA  
 GCACCTGGCTGAGTACTTGAAGCCTACTGGAAGGCCACACATCCGCCTAGCAGCACGCCACCCAATCCG  
 CTGCTGAACCGCACCATGGCTACCGCAGCTCTGGCTGCCAGCCCTGCCCCGTCTCAACCTCCAGGTAC  
 AGGTGCTCACCTCGCTCAGGAGAAATCTCAGCTTCTGGGGCGGGCTGGAGGCCTCACCGCGGGGAGGCGA  
 CGCGGTGGCCAGCCTCAGGAGCACGCCAT**G****T****A****G**

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-RsrII

**ACCN:** NM\_001159320

**Insert Size:** 1434 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\\_001159320.2](#), [NP\\_001152792.1](#)

RefSeq Size: 1600 bp

RefSeq ORF: 1434 bp

Locus ID: 12295

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 (4) differs in the 5' UTR and coding sequence and in the 3' UTR and coding sequence compared to variant 5. The resulting isoform (D) has shorter and distinct N- and C-termini 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.