

Product datasheet for **MC217410**

Cacnb1 (NM_031173) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cacnb1 (NM_031173) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cacnb1
Synonyms:	CAB1; Cchb1; Cchl1b1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC217410 representing NM_031173
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTCCAGAAGAGCGGCATGTCCCGGGCCCTTACCCACCTTCCAAGAGATCCCTATGGAGGTCTTCG
 ACCCCAGCCACAGGGCAAGTACAGCAAGAGGAAAGGGCGTTCAAAGGTGAGACGGGAGTACGTCCTC
 GGATACAACATCCAACAGCTTCGTCGCCAGGGCTCAGCAGAGTCTACACGAGCCGACCATCAGACTCT
 GATGTGTCTCTGGAGGAGGACCGGAAGCCTTAAGGAAGGAGGCAGAGCGCCAGGCCTTAGCCAGCTCG
 AGAAAGCCAAGACCAACCAGTGGCTTTTGTGTTCCGACAAATGTTGGCTACAATCCGTCCTCAGGGGA
 TGAGGTGCTGTACAGGGAGTGGCCATCACCTTTGAGCCCAAGGACTTCTACACATCAAGGAGAAGTAC
 AATAATGACTGGTGGATTGGGCGCTGGTGAAGGAAGGCTGCGAGGTTGGCTTCATCCCCAGCCCGGTCA
 AACTGGACAGCCTTCGTCGCTGCAGGAACAGACCCTGCGCCAGAACCGCCTCAGCTCCAGCAAGTCAGG
 TGACAACCTCCAGTTCAGTCTGGGAGATGTGGTACTGGCACCCGCCGCCACACCCCTGCCAGTGGT
 AATGAAATGACTAACTTTGCCTTTGAGCTAGACCCCTAGAGTTAGAGGAGGAGGAGGCAGAGCTAGGGG
 AGCACGGCGGCTCAGCCAAGACTAGCGTGAGCAGTGTACCACGCCGCCACCCACGGCAAGCGCATCCC
 CTTCTTTAAGAAGACAGAGCACGTGCCCCCTATGACGTGGTGCCTTCCATGAGGCCCATCATCCTGGTG
 GGACCGTCGCTCAAGGGCTATGAGGTGACAGACATGATGCAGAAAGCGTTGTTTGACTTCTCAAGCATC
 GGTTTGATGGCAGGATTTCCATCACCCGGGTAACAGCTGACATTTCCCTGGCCAAACGCTCCGTCCTCAA
 CAACCCAGCAAAACACATCATCATTGAGCGCTCCAACACGCGTCCAGCCTGGCTGAGGTACAGAGTGAA
 ATTGAGAGGATCTTCGAGCTGGCCCGGACCTTGACAGCTGGTGCCTTGGACGCTGACACCATCAACCACC
 CAGCCCAGCTCTCTAAAACGTCGCTGGCCCCATCATTGTTTACATCAAGATCACATCTCCAAGGTA
 GCAGAGGCTCATCAAATCCCGAGGGAAGTCTCAATCCAACACCTCAATGTCCAATAGCAGCCTCGGAG
 AAGCTGGCACAGTGTCCCCCGAAATGTTTGACATAATCCTGGACGAGAACCAATTGGAAGATGCCTGCG
 AGCACCTGGCTGAGTACTTGAAGCCTACTGGAAGGCCACACATCCGCCTAGCAGCACGCCACCAATCC
 GCTGCTGAACCGACCATGGCTACCGCAGCTCTGGTCCAGCCCTGCCCCGCTCTCAACCTCCAGGTA
 CAGGTGCTCACCTCGCTCAGGAGAAATCTCAGTCTGGGGCGGGCTGGAGGCCTCACCGCGGGGAGGCC
 ACGCGGTGGCCAGCCTCAGGAGCACGCCATG**TAG**

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-RsrII

ACCN: NM_031173

Insert Size: 1575 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_031173.4](#), [NP_112450.1](#)

RefSeq Size: 1873 bp

RefSeq ORF: 1575 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 (1) differs in the 3' UTR and coding sequence compared to variant 5. The resulting isoform (A) has a shorter and distinct C-terminus 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.