

Product datasheet for **MC227864**

Cacnb1 (NM_001282978) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cacnb1 (NM_001282978) 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: >MC227864 representing NM_001282978
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTCCAGAAGAGCGGCATGTCCCGGGCCCTTACCCACCTTCCAAGAGATCCCTATGGAGGTCTTCG
 ACCCCAGCCCACAGGGCAAGTACAGCAAGAGGAAAGGGCGTTCAAAGGTACAGACGGGAGTACGTCCTC
 GGATACAACATCCAACAGCTTCGTCGCCAGGGCTCAGCAGAGTCTACACGAGCCGACCATCAGACTCT
 GATGTGTCTCTGGAGGAGGACCGGAAGCCTTAAGGAAGGAGGCAGAGCGCCAGGCCTTAGCCAGCTCG
 AGAAAGCCAAGACCAACCAGTGGCTTTTGTGTTCCGACAAATGTTGGCTACAATCCGTCTCCAGGGGA
 TGAGGTGCCTGTACAGGGAGTGGCCATCACCTTTGAGCCCAAGGACTTCTACACATCAAGGAGAAGTAC
 AATAATGACTGGTGGATTGGGCGCTGGTGAAGGAAGGCTGCGAGGTTGGCTTCATCCCCAGCCCGTCA
 AACTGGACAGCCTTCGTCTGCTGCAGGAACAGACCCTGCGCCAGAACCGCCTCAGCTCCAGCAAGTCAGG
 TGACAACCTCAGTTCAGTCTGGGAGATGTGGTACTGGCACCCGCCGCCACACCCCTGCCAGTGAG
 CACGTGCCCCCTATGACGTGGTGCCTTCCATGAGGCCATCATCCTGGTGGGACCGTGCCTCAAGGGCT
 ATGAGGTGACAGACATGATGCAGAAAGCGTTGTTTGACTTCTCAAGCATCGGTTTGATGGCAGGATTTCC
 CATACCCGGGTAACAGCTGACATTTCCCTGGCCAAACGCTCCGTCTCAACAACCCAGCAAACACATC
 ATCATTGAGCGCTCCAACACGCGTTCAGCCTGGCTGAGGTACAGAGTGAATTGAGAGGATCTTCGAGC
 TGGCCCGGACCTTGCAGCTGGTGCCTTGGACGCTGACACCATCAACCACCCAGCCAGCTCTCTAAAAC
 GTCGCTGGCCCCATCATTGTTTACATCAAGATCACATCTCCAAGGTAAGTGCAGAGGCTCATCAATCC
 CGAGGGAAGTCTCAATCCAACACCTCAATGTCCAATAGCAGCCTCGGAGAAGCTGGCACAGTGTCCCC
 GGAAGCCTACTGGAAGGCCACACATCCGCCTAGCAGCACGCCACCCAATCCGCTGCTGAACCGCACCATG
 GCTACCGCAGCTCTGGTGCAGCCCTGCCCGCTCTCCAACCTCCAGGTACAGGTGCTCACCTCGCTCA
 GGAGAAATCTCAGCTTCTGGGCGGGCTGGAGGCTCACCGCGGGGAGGCAGCGCGGTGGCCAGCCTCA
 GGAGCACGCCATG**TAG**

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII

ACCN: NM_001282978

Insert Size: 1416 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).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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_001282978.1](#), [NP_001269907.1](#)

RefSeq Size: 1714 bp

RefSeq ORF: 1416 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 (6) lacks an alternate coding exon, uses an alternate splice junction at the 5' end of an exon, and differs in the 3' UTR and coding sequence compared to variant 5. The resulting isoform (F) 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.