

## Product datasheet for **MC228558**

### **Cacnb1 (NM\_001282977) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cacnb1 (NM_001282977) 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:** >MC228558 representing NM\_001282977  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTCCAGAAGAGCGGCATGTCCCGGGCCCTTACCCACCTTCCAAGAGATCCCTATGGAGGTCTTCG  
 ACCCCAGCCACAGGGCAAGTACAGCAAGAGGAAAGGGCGTTCAAAGGTGACAGCGGGAGTACGTCTCT  
 GGATACAACATCCAACAGCTTCGTCGCCAGGGCTCAGCAGAGTCTACACGAGCCGACCATCAGACTCT  
 GATGTGTCTCTGGAGGAGGACCGGAAGCCTTAAGGAAGGAGGCAGAGCGCCAGGCCTTAGCCAGCTCG  
 AGAAAGCCAAGACCAACCAGTGGCTTTTGTGTTCCGACAAATGTTGGCTACAATCCGTCTCCAGGGGA  
 TGAGGTGCCTGTACAGGGAGTGGCCATCACCTTTGAGCCCAAGGACTTCTACACATCAAGGAGAAGTAC  
 AATAATGACTGGTGGATTGGGCGCTGGTGAAGGAAGGCTGCGAGGTTGGCTTCATCCCCAGCCCGTCA  
 AACTGGACAGCCTTCGTCTGCTGCAGGAACAGACCCTGCGCCAGAACCAGCCTCAGCTCCAGCAAGTCAGG  
 TGACAACCTCCAGTTCAGTCTGGGAGATGTGGTACTGGCACCCGCCGCCACACCCCTGCCAGTGGT  
 AATGAAATGACTAACTTTGCCTTTGAGCTAGACCCCTAGAGTTAGAGGAGGAGGAGGCAGAGCTAGGGG  
 AGCACGGCGGCTCAGCCAAGACTAGCGTGAGCAGTGTACCACGCCGCCACCCACGGCAAGCGCATCCC  
 CTTCTTTAAGAAGACAGACGACGTGCCCCCTATGACGTGGTGCCTTCCATGAGGCCCATCATCCTGGT  
 GGACCGTCGCTCAAGGGCTATGAGGTGACAGACATGATGCAGAAAGCGTTGTTTACTTCTCAAGCATC  
 GGTTTGATGGCAGGATTTCCATCACCCGGGTAACAGCTGACATTTCCCTGGCCAAACGCTCCGTCCTCAA  
 CAACCCAGCAAAACATCATCATTGAGCGCTCCAACACGCGTCCAGCCTGGCTGAGGTACAGAGTGAA  
 ATTGAGAGGATCTTCGAGCTGGCCCGGACCTTGACGCTGGTTCGCTTGGACGCTGACACCATCAACCACC  
 CAGCCCAGCTCTCTAAAACGTCGCTGGCCCCATCATTGTTTACATCAAGATCACATCTCCAAGGTACT  
 GCAGAGGCTCATCAAATCCCGAGGGAAGTCTCAATCCAACACCTCAATGTCAAATAGCAGCCTCGGAG  
 AAGCTGGCACAGTGTCCCCCGAAATGTTTACATAATCCTGGACGAGAACCAATTGGAAGATGCCTGCG  
 AGCACCTGGCTGAGTACTTGAAGCCTACTGGAAGGCCACACATCCGCCTAGCAGCACGCCACCAATCC  
 GCTGCTGAACCGACCATGGCTACCGCAGCTCTGGTGCAGCCCTGCCCCGCTCTCAAACCTCCAGGGA  
 CCCTACCTTGCTTCCGGGACCAGCCGCTGGACCGGGCCACTGGGGAACATGCCAGTGTGCACGAGTACC  
 CCGGGAACTGGGCCAGCCCCAGCCCTTACCCAGCAACCACCCACCTGGCCGGGCAGGCACCCTGCC  
 GGGCTATCCCGCAAGACACCTTTGATGCTGACACCCCGGCAGCCGAAATTCTGCCTACACGGAGCCG  
 GGAGACTCGTGTGGACATGGAGACAGACCCCTCAGAGGGCCAGGGCCTGGAGACCCTGCAGGGGGAG  
 GCACACCACCGCCGAGGGCTCCTGGGAAGACGAGGAAGACTATGAGGAGGAGATGACCGACAACAG  
 GAACCGGGGCCGAATAAGGCCCGCTACTGTGCGGAGGGTGGTGGCCGGTTCTGGGGCCGAATAAGAAT  
 GAGCTGGAGGGCTGGGGACAAGGCGTCTACATCCG**TGA**

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-RsrII

**ACCN:** NM\_001282977

**Insert Size:** 1929 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001282977.1</u> , <u>NP_001269906.1</u>
<b>RefSeq Size:</b>	3524 bp
<b>RefSeq ORF:</b>	1929 bp
<b>Locus ID:</b>	12295
<b>Cytogenetics:</b>	11 61.5 cM
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (5) represents the longest transcript and encodes the longest 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.</p>