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# Product datasheet for MC219491

## Cacnb1 (NM_145121) Mouse Untagged Clone

### Product data:

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|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | Cacnb1 (NM_145121) Mouse Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | Cacnb1 |
| **Synonyms:** | CAB1; Cchb1; Cchlb1 |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |
| **Cell Selection:** | Neomycin |

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**Fully Sequenced ORF:**

>MC219491 representing NM_145121
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTCCAGAAGAGCGGCATGTCCCGGGGCCCTTACCCACCTTCCCAAGAGATCCCTATGGAGGTCTTCG
ACCCCAGCCCACAGGGCAAGTACAGCAAGAGGAAAGGGCGGTTCAAAAGGTCAGACGGGAGTACGTCCTC
GGATACAACATCCAACAGCTTCGTCCGCCAGGGCTCAGCAGAGTCCTACACGAGCCGACCATCAGACTCT
GATGTGTCTCTGGAGGAGGACCGGGAAGCCTTAAGGAAGGAGGCAGAGCGCCAGGCCTTAGCCCAGCTCG
AGAAAGCCAAGACCAAACCAGTGGCTTTTGCTGTTCGGACAAATGTTGGCTACAATCCGTCTCCAGGGGA
TGAGGTGCCTGTACAGGGAGTGGCCATCACCTTTGAGCCCAAGGACTTCCTACACATCAAGGAGAAGTAC
AATAATGACTGGTGGATTGGGCGGCTGGTGAAGGAAGGCTGCGAGGTTGGCTTCATCCCCAGCCCGGTCA
AACTGGACAGCCTTCGTCTGCTGCAGGAACAGACCCTGCGCCAGAACCGCCTCAGCTCCAGCAAGTCAGG
TGACAACTCCAGTTCCAGTCTGGGAGATGTGGTGACTGGCACCCGCCGCCCCACACCCCCTGCCAGTGCC
AAACAGAAGCAGAAATCGACAGAGCACGTGCCCCCCTATGACGTGGTGCCTTCCATGAGGCCCATCATCC
TGGTGGGACCGTCGCTCAAGGGCTATGAGGTGACAGACATGATGCAGAAAGCGTTGTTTGACTTCCTCAA
GCATCGGTTTGATGGCAGGATTTCCATCACCCGGGTAACAGCTGACATTTCCCTGGCCAAACGCTCCGTC
CTCAACAACCCCAGCAAACACATCATCATTGAGCGCTCCAACACGCGTTCCAGCCTGGCTGAGGTACAGA
GTGAAATTGAGAGGATCTTCGAGCTGGCCCGGACCTTGCAGCTGGTCGCCTTGGACGCTGACACCATCAA
CCACCCAGCCCAGCTCTCTAAAACGTCGCTGGCCCCCATCATTGTTTACATCAAGATCACATCTCCCAAG
GTACTGCAGAGGCTCATCAAATCCCGAGGGAAGTCTCAATCCAAACACCTCAATGTCCAAATAGCAGCCT
CGGAGAAGCTGGCACAGTGTCCCCCCGAAATGTTTGACATAATCCTGGACGAGAACCAATTGGAAGATGC
CTGCGAGCACCTGGCTGAGTACTTGGAAGCCTACTGGAAGGCCACACATCCGCCTAGCAGCACGCCACCC
AATCCGCTGCTGAACCGCACCATGGCTACCGCAGCTCTGGCTGCCAGCCCTGCCCCCGTCTCCAACCTCC
AGGGACCCTACCTTGCTTCCGGGGACCAGCCGCTGGACCGGGCCACTGGGGAACATGCCAGTGTGCACGA
GTACCCCGGGGAACTGGGCCAGCCCCCAGGCCTTTACCCCAGCAACCACCCACCTGGCCGGGCAGGCACC
CTGCGGGCGCTATCCCGCCAAGACACCTTTGATGCTGACACCCCCGGCAGCCGAAATTCTGCCTACACGG
AGCCGGGAGACTCGTGTGTGGACATGGAGACAGACCCCTCAGAGGGCCCAGGGCCTGGAGACCCTGCAGG
GGGAGGCACACCACCAGCCCGGCAGGGCTCCTGGGAAGACGAGGAAGACTATGAGGAGGAGATGACCGAC
AACAGGAACCGGGGCCGGAATAAGGCCCGCTACTGTGCGGAGGGTGGTGGGCCGGTTCTGGGGCGCAATA
AGAATGAGCTGGAGGGCTGGGGACAAGGCGTCTACATCCGCTGA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-RsrII

**ACCN:** NM_145121

**Insert Size:** 1794 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).

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| **Reconstitution Method:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_145121.3, NP_660099.2 |
| **RefSeq Size:** | 3389 bp |
| **RefSeq ORF:** | 1794 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]<br>Transcript Variant: This variant (2) contains an alternate coding exon and lacks another alternate coding exon compared to variant 5. The resulting isoform (B) has the same N- and C-termini but is shorter 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. |