

Product datasheet for **MC227871**

Cacnb4 (NM_001285427) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cacnb4 (NM_001285427) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cacnb4
Synonyms:	3110038O15Rik; Cchb4; lh
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC227871 representing NM_001285427
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGGGT**CAGCAGAT**TCTATACAAGCAGGCCATCGGACTCCGATGTCTCTTGAAGAGGACCGGG
 AAGCGATCCGGCAAGAGCGAGAACAGCAAGCAGCTATCCAGCTTGAGAGAGCGAAGTCCAAACCTGTAGC
 TTTTGGCGTGAAAACGAACGTGAGCTACTGTGGTGCCCTGGACGAAGATGTGCCCGTTCCAGCACAGCC
 ATCTCCTTTGACGCCAAGGACTTCTTACATTAAGAGAAAATAACAATGATTGGTGGATAGGAAGAC
 TGGTAAAAGAGGGCTGTGAGATTGGCTTCATCCCAAGTCCACTGCGCTTGAGAAATATTCGGATTCAACA
 GGAACAGAAAAGAGGCCGTTTTTCATGGCGGAAATCGAGTGAAACTCTTCTCCAGTCTGGGAGAAATG
 GTATCAGAAACATTCCGAGCACTCCACAACAACAGCAAACAGAAAGCAGAAAGTGACGGAGCACATTC
 CTCGGTATGACGTCGTCCGTCAATGCGTCCTGTGGTGTAGTGGGGCCATCACTGAAAGGTTATGAGGT
 AACAGACATGATGCAGAAAGCCCTTTTGATTTCTGAAGCACAGTTTGTATGGGAGGATATCAATAACA
 AGAGTGACAGCTGACATTTCTTGTCTAAGAGATCTGTCCTCAACAATCCTAGCAAGAGAGCAATAATTG
 AACGTTCCAACACCAGATCCAGCTTAGCGGAAGTACAAAGTGAATTTGAAAGAATTTTTGAGTTGGCAAG
 ATCTTTGCAATTGGTTGTTCTTGATGCAGACCATCAACCACCCAGCACAGCTGATAAAGACATCCTTA
 GCACCCATCATCGTCCACGTGAAGGTCTCGTCCCAAAGGTTTTACAGCGGCTGATTAAGTCCAGAGGAA
 AGTCCCAAAGCAAACACTTGAATGTTCAACTGGTGGCGGCGATAAACTGGCCAGTGGCCCGCTGAAAT
 GTTTGATGTTATATTAGATGAGAATCAACTGGAGATGCCTGTGAACATCTGGGAGAGTACCTGGAGGCA
 TACTGGCGTGCCACCCACAGCAGTAGCACCCCTATGACCCATTACTGGGGCGGAACGTGGGCTCCA
 CAGCCCTCTCACATATCCACAGCAATCTTGATTACAGAGTCAGCGAATGAGACACAGCAACCATT
 TACAGAGAATTCTCAATTGAAAGACGAAGCCTAATGACCTCGGATGAAAATTACCACAATGAGAGGGCC
 CGCAAGAGTAGGAACCGCTTGTCTCCAGCTCCAGCACAGCCGAGACCACTACCCCTGTGTGGAAGAAG
 ATTACCCGGACTCGTACCAGGACTTATAAGCCCATAGGAACCGAGGATCGCCCGGGGGTGCAGCCA
 TGACTCCCGACATAGGCTT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM_001285427
- Insert Size:** 1422 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_001285427.1](#), [NP_001272356.1](#)

RefSeq Size: 8088 bp

RefSeq ORF: 1422 bp

Locus ID: 12298

UniProt ID: [Q8R0S4](#)

Cytogenetics: 2 29.98 cM

Gene Summary: The beta subunit of voltage-dependent calcium channels contributes to the function of the calcium channel by increasing peak calcium current, shifting the voltage dependencies of activation and inactivation, modulating G protein inhibition and controlling the alpha-1 subunit membrane targeting.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (4) differs in the 5' UTR and lacks a portion of the 5' coding region compared to variant 1. This results in the use of a downstream start codon. The resulting protein (isoform d) is shorter and has a distinct N-terminus compared to isoform a.
Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.