

Product datasheet for **MC227796**

Cacnb3 (NM_001286226) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cacnb3 (NM_001286226) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cacnb3
Synonyms:	Beta3; Ca(v)beta3; CAB3; Cchb3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC227796 representing NM_001286226
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTATGACGACTCTACGTGCCGGGTTTGGAGACTCGGAGGCGGGTTCAGCCGACTCCTACACCAGCC
 GCCCCTCTCTGGACTCAGACGTCTCCCTGGAGGAGACCGGGAGAGTGCCCGCGAGAAGTGGAGAGTCA
 GGCTCAGCAGCAGCTGGAAAGAGCCAAGCACAAACCTGTGGCATTGCTGTGAGGACCAATGTCAGCTAC
 TGTGGGGTTCTGGATGAGGAGTGCCCGTCCAGGGCTCTGGAGTCAACTTTGAGGCCAAAGATTTTCTGC
 ACATTAAGAGAGAAGTACAGCAATGACTGGTGGATCGGGAGGCTAGTAAAAGAGGGCGGAGACATCGCCTT
 CATCCCCAGCCCCAACGCCTGGAGAGCATCCGGCTCAAACAGGAACAGAAGGCCAGGAGATCTGGGAAC
 CCTTCCAGCCTGGGTGACATTGGCAACCGACGCTCTCCTCCTCCGTCTCTAGCCAAGCAGAAGCAAAGC
 AGGTACGGACATGATGCAGAAGGCGCTCTTCGACTTCCTTAAACACAGGTTTGATGGCAGGATCTCCAT
 CACACGGTACGGCCGACCTCTCGCTGGCCAAGCGCTCTGTGCTCAACAATCCTGGCAAGAGGACCATC
 ATTGAGCGCTCCTCCGCCGCTCCAGCATTGCTGAAGTGCAGAGTGAGATTGAGCGCATATTCGAGCTGG
 CCAATCCCTGCAGCTAGTGGTGTGGATGCTGACACCATCAACCACCCAGCACAACTTGCCAAGACCTC
 ACTGGCTCCCATCATCGTCTTTGTCAAAGTGTCTCGCAAAGGTAAGTGCAGCGACTGATCCGCTCCAGG
 GGAAAGTACAGATGAAGCACCTCACTGTACAGATGATGGCGTACGATAAGCTGGTTCAGTGCCACCCG
 AGTCATTGACGTGATTCTGGATGAGAACCAGCTAGAAGATGCCTGTGAGCACCTGGCTGAATACTTAGA
 GGTTTACTGGCGAGCGACCCACCACCCAGCACCGGGCCCGGACTGCTGGGTCCGCTAGTGCCATCCCT
 GGACTTCAGAACCAGCAGCTGCTGGGGGAGCGAGTGGAGGAGCACTCACCCCTGGAGAGGGACAGCCTGA
 TGCCCTCAGATGAGGCCAGCAGAGCTCCCGCCAGGCCCTGGACCGGATCTCACAGCGCAGCTCTGCCA
 TCTGGAGGAGGACTATGCAGATGCCTACCAGGACTGTACCAGCCTCACCGCCAACACACCTCGGGGCTG
 CCCAGTCTAACGGGCACGACCCCAAGACCGGCTCTAGCCAGGACTCGGAGCATGACCACAATGACC
 GAACTGGCAGCGTAACCGCCCTTGCCCAAGGACAGCTAC**TGA**

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII

ACCN: NM_001286226

Insert Size: 1374 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_001286226.1](#), [NP_001273155.1](#)

RefSeq Size: 2741 bp

RefSeq ORF: 1374 bp

Locus ID: 12297

Cytogenetics: 15 54.64 cM

Gene Summary: Regulatory subunit of the voltage-gated calcium channel that gives rise to L-type calcium currents (PubMed:24751537). Increases CACNA1B peak calcium current and shifts the voltage dependencies of channel activation and inactivation (By similarity). Increases CACNA1C peak calcium current and shifts the voltage dependencies of channel activation and inactivation (By similarity).[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (3) lacks an in-frame exon in the central coding region, compared to variant 1. The encoded isoform (3) is shorter, compared to isoform 1.