

Product datasheet for **MC216616**

Cacnb3 (NM_007581) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cacnb3 (NM_007581) 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: >MC216616 representing NM_007581
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTATGACGACTCTACGTGCCGGGTTTGGAGACTCGGAGGCGGGTTCAGCCGACTCCTACACCAGCC
 GCCCTCTCTGGACTCAGACGTCTCCCTGGAGGAGGACCGGGAGAGTGCCCGCGAGAAGTGGAGAGTCA
 GGCTCAGCAGCAGCTGGAAAGAGCCAAGCACAAACCTGTGGCATTGCTGTGAGGACCAATGTCAGCTAC
 TGTGGGGTTCTGGATGAGGAGTGCCCGTCCAGGGCTCTGGAGTCAACTTTGAGGCCAAAGATTTTCTGC
 ACATTAAGAGAAGTACAGCAATGACTGGTGGATCGGGAGGCTAGTAAAAGAGGGCGGAGACATCGCCTT
 CATCCCGACGCCCAACGCCTGGAGAGCATCCGGCTCAAACAGGAACAGAAGGCCAGGAGATCTGGGAAC
 CCTTCCAGCCTGGGTGACATTGGCAACCGACGCTCTCTCTCCGTCTCTAGCCAAGCAGAAGCAAAGC
 AGGCGGAACATGTTCCCGGTATGATGTGGTGCCTCCATGCGGCCTGTGGTGTGGTGGGACCCTCTCT
 GAAAGGCTATGAGGTCACGGACATGATGCAGAAGGCGCTTTCGACTTCTTAAACACAGGTTTGTATGGC
 AGGATCTCCATCACACGCGTCACGGCCGACCTCTCGCTGGCCAAGCGCTCTGTGCTCAACAATCCTGGCA
 AGAGGACCATCATTGAGCGCTCTCCGCCCGCTCCAGCATTGCTGAAAGTCGAGAGTGAGATTGAGCGCAT
 ATTCGAGCTGGCCAAATCCCTGCAGCTAGTGGTGTGGATGCTGACACCATCAACCACCCAGCACAACTT
 GCCAAGACCTCACTGGTCCCATCATCGTCTTTGTCAAAGTGTCTCGCCAAAGGTACTGCAGCGACTGA
 TCCGCTCCAGGGGAAAGTCACAGATGAAGCACCTCACTGTACAGATGATGGCGTACGATAAGCTGGTTCA
 GTGCCCACCCGAGTCATTCGACGTGATTCTGGATGAGAACCAGCTAGAAGATGCCTGTGAGCACCTGGCT
 GAATACTTAGAGGTTTACTGGCAGCGACCCACCACCCAGCACCAGGCGCCCGGACTGCTGGTCCGCCTA
 GTGCCATCCCTGGACTTCAGAACCCAGCAGCTGCTGGGGAGCGAGTGGAGGAGCACTACCCCTGGAGAG
 GGACAGCCTGATGCCCTCAGATGAGGCCAGCGAGAGCTCCCGCCAGGCCTGGACCGGATCTTCACAGCGC
 AGCTCTCGCCATCTGGAGGAGGACTATGCAGATGCCTACCAGGACCTGTACCAGCCTCACCGCCAACACA
 CCTCGGGGCTGCCAGTGCTAACGGGCACGACCCCAAGACCGGCTCTAGCCAGGACTCGGAGCATGA
 CCACAATGACCGAACTGGCAGCGTAACCGGCCTTGGCCAAAGGACAGCTACTGA

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII

ACCN: NM_007581

Insert Size: 1455 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).

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_007581.3](#), [NP_031607.2](#)

RefSeq Size: 2822 bp

RefSeq ORF: 1455 bp

Locus ID: 12297

UniProt ID: [P54285](#)

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 (1) represents the longest transcript and encodes the longest isoform (1).