

Product datasheet for **MC227096**

Cacnb4 (NM_001285428) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cacnb4 (NM_001285428) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cacnb4
Synonyms:	3110038O15Rik; Cchb4; lh
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC227096 representing NM_001285428 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTATCAGGAACATTCGAGCAACTCCACAACAACAGCAAAACAGAAGCAGAAAGTGACGGAGCACA
TTCCTCCGTATGACGTCGTGCCGTCATGCGTCCTGTGGTGTAGTGGGGCCATCACTGAAAGGTTATGA
GGTAACAGACATGATGCAGAAAGCCCTCTTTGATTTCTGAAGCAGAGTTTGTGGGAGGATATCAATA
ACAAGAGTGACAGCTGACATTTCTTTGCTAAGAGATCTGTCCTCAACAATCCTAGCAAGAGAGCAATAA
TTGAACGTTCCAACACCAGATCCAGCTTAGCGGAAGTACAAAGTAAAATTGAAAGATTTTTGAGTTGGC
AAGATCTTTGCAATTGGTTGTTCTTGATGCAGACACCATCAACCACCCAGCACAGCTGATAAAGACATCC
TTAGCACCCATCATCGTCCACGTGAAGGCTCTGTCCTCCAAAGGTTTTACAGCGGCTGATTAAGTCCAGAG
GAAAGTCCCAAAGCAAACACTTGAATGTTCAACTGGTGGCGGCCGATAAACTGGCCCAGTGCCCGCTGA
AATGTTTGATGTTATATTAGATGAGAATCAACTGAGGATGCCTGTGAACATCTGGGAGAGTACCTGGAG
GCATACTGGCGTGCCACCCACAGCAGTAGCACCCCTATGACCCCTACTGGGGCGGAACGTGGGCT
CCACAGCCCTCTACCATATCCACAGCAATCTCTGGATTACAGAGTCAGCGAATGAGACACAGCAACCA
TTCTACAGAGAATTCTCAATTGAAAGCAGAAGCCTAATGACCTCGGATGAAAATTACCACAATGAGAGG
GCCCGCAAGAGTAGGAACCGCTTGCTTCCAGCTCCAGCACAGCCGAGACCACTACCTCTGGTGGGAAG
AAGATTACCCGGACTCGTACCAGGACACTATAAGCCCCATAGGAACCGAGGATCGCCCGGGGGTGCAG
CCATGACTCCCGACATAGGCTTTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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ACCN:	NM_001285428
Insert Size:	1005 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:	<ol style="list-style-type: none">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:	<u>NM_001285428.1</u> , <u>NP_001272357.1</u>
RefSeq Size:	7717 bp
RefSeq ORF:	1005 bp
Locus ID:	12298
Cytogenetics:	2 29.98 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (5) differs in the 5' UTR, lacks a portion of the 5' coding region and uses a downstream start codon compared to variant 1. The resulting protein (isoform e) 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.</p>