OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MC228062

Cacnb4 (NM_001285426) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cacnb4 (NM_001285426) 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

View online »

Fully Sequenced ORF:

>MC228062 representing NM_001285426
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATGTGGTGGCCCGAGGCACCACGACCCGGAGGAGCAGGTTGAAAAGATCGGATGGCAGCACCACTT
CTACCAGCTTCATCCTCAGACAGGGGTCAGCAGATTCCTATACAAGCAGGCCATCGGACTCCGATGTCTC
CTTGGAAGAGGACCGGGAAGCGATCCGGCAAGAGCGAGAACAGCAAGCAGCTATCCAGCTTGAGAGAGCG
AAGTCCAAACCTGTAGCTTTTGCGGTGAAAACGAACGTGAGCTACTGTGGTGCCCTGGACGAAGATGTGC
CCGTTCCCAGCACAGCCATCTCCTTTGACGCCAAGGACTTTCTTCACATTAAAGAGAAATATAACAATGA
TTGGTGGATAGGAAGACTGGTAAAAGAGGGCTGTGAGATTGGCTTCATCCCAAGTCCACTGCGCTTGGAG
AATATTCGGATTCAACAGGAACAGAAAAGAGGCCGTTTTCATGGCGGGAAATCGAGTGGAAACTCTTCCT
CCAGTCTGGGAGAAATGGTATCAGGAACATTCCGAGCAACTCCCACAACAACAGCAAAACAGAAGCAGAA
AGTGACGGAGCACATTCCTCCGTATGACGTCGTGCCGTCAATGCGTCCTGTGGTGTTAGTGGGGCCATCA
CTGAAAGGTTATGAGGTAACAGACATGATGCAGAAAGCCCTCTTTGATTTCCTGAAGCACAGGTTTGATG
GGAGGATATCAATAACAAGAGTGACAGCTGACATTTCTCTTGCTAAGAGATCTGTCCTCAACAATCCTAG
CAAGAGAGCAATAATTGAACGTTCCAACACCAGATCCAGCTTAGCGGAAGTACAAAGTGAAATTGAAAGA
ATTTTTGAGTTGGCAAGATCTTTGCAATTGGTTGTTCTTGATGCAGACACCATCAACCACCCAGCACAGC
TGATAAAGACATCCTTAGCACCCATCATCGTCCACGTGAAGGTCTCGTCCCCAAAGGTTTTACAGCGGCT
GATTAAGTCCAGAGGAAAGTCCCAAAGCAAACACTTGAATGTTCAACTGGTGGCGGCCGATAAACTGGCC
CAGTGCCCGCCTGAAATGTTTGATGTTATATTAGATGAGAATCAACTTGAGGATGCCTGTGAACATCTGG
GAGAGTACCTGGAGGCATACTGGCGTGCCACCCACACGAGCAGTAGCACCCCTATGACCCCATTACTGGG
GCGGAACGTGGGCTCCACAGCCCTCTCACCATATCCCACAGCAATCTCTGGATTACAGAGTCAGCGAATG
AGACACAGCAACCATTCTACAGAGAATTCTCCAATTGAAAGACGAAGCCTAATGACCTCGGATGAAAATT
ACCACAATGAGAGGGCCCGCAAGAGTAGGAACCGCTTGTCTTCCAGCTCCCAGCACAGCCGAGACCACTA
CCCTCTGGTGGAAGAAGATTACCCGGACTCGTACCAGGACACTTATAAGCCCCATAGGAACCGAGGATCG
CCCGGGGGGGTGCAGCCATGACTCCCGACATAGGCTTTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001285426

Insert Size: 1509 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_001285426.1, NP_001272355.1
RefSeq Size:	7792 bp
RefSeq ORF:	1509 bp
Locus ID:	12298
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 (3) differs in the 5' UTR and CDS, and uses a downstream start codon compared to variant 1. The resulting protein (isoform c) has a shorter N-terminus compared to isoform a. 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.