

Product datasheet for **MC220150**

Cacnb2 (NM_023116) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cacnb2 (NM_023116) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cacnb2
Synonyms:	AW060387; CAB2; Cavbeta2; Cchb2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC220150 representing NM_023116
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTCCAAAGCGACACGTCCAAGTCGCCTCCCGTAGCGCGGTGGCGCAGGAGACCAGATGGAGCTGC
 TGGAGAGCGCGGCTCCCGCGGGGCGCTCGGAGCACAGTCTATGGAAAAGGAGCCAGGAGGAAAAATAG
 ATTTAAAGGCTCGGATGGAAGCACATCGTCAGACACTACCTCAAACAGTTTTGTCCGCCAGGGTTCGGCA
 GACTCCTACACCAGCGCCCATCCGATTCAGATGTGTCTTTGGAAGAGGACCGGGAGGCAGTACGTAGAG
 AAGCTGAGCGGCAGGCACAGGCACAGTTGGAAAAAGCAAAGACAAAACCTGTTGCATTTGCAGTTCGGAC
 CAATGTCAGATACAGCGCAGCCAGGAGGATGACGTTCCGGTGCCTGGCATGGCCATCTCCTTCGAGGCC
 AAAGATTTCTGCATGTTAAAGAAAAATTAATAATGACTGGTGGATAGGACGGCTGGTTAAAGAAGGCT
 GTGAAATCGGATTTATTCCAAGCCAGTCAAACAGAGAACATGAGGCTACAGCACGAACAGAGAGCCAA
 GCAAGGGAAATCTATTCCAGTAAATCAGGAGGAATTCATCATCCAGTTTGGGTGACATAGTGCCAGT
 TCCAGAAAATCGACACCCCGCTCATCTGCTATAGACATAGATGCTACTGGCTTAGATGCAGAAGAGAATG
 ATATTCCAGCAAACCACCGCTCCCTAAGCCAGTGCAAACAGTGAACATCACCCCACTCCAAAGAGAA
 AAGAATGCCCTTCTTTAAGAAGACAGAGCACACTCCTCCTTATGATGTGGTACCTTCCATGCGACCAGTG
 GTGCTGGTGGGCCGCTCTGAAGGGGTATGAGGTCACAGATATGATGCAAAAAGCACTGTTTGATTTTC
 TAAAACACAGATTTGAAGGGCGGATATCCATCACAAGAGTCACTGCTGACATCTCCTTGCCAAACGCTC
 AGATTTAAACAATCCCAGTAAGCATGCAATCATAGAAAGATCCAACACAAGGTCCAGCTTAGCGGAAGTT
 CAGAGTGAAATGAAAGGATTTTGAACCTGCAAGAACACTGCAATTGGTAGCCTTGACGCGGATACAA
 TTAATCACCCAGCTCAACTCAGTAAGACCTCTTTGGCCCTATCATAGTGTACGTAAAGATTTCTCTCC
 CAAGGTTTTACAAGGTTGATAAAATCTCGAGGGAAATCTCAAGCAAAACACCTCAATGTCCAGATGGTA
 GCAGCTGATAAACTGGCCAATGTCTCCGCAGGAATCATTTGATGTGATCTTGGATGAGAACCAGCTGG
 AGGACGCTTGTGAGCATCTTGCCGACTATCTGGAGGCATACTGGAAGGCCACCCACCTCCAGCGGTAA
 CCTCCCCAACCTCTGCTTAGCCGACTTTAGCCTCCTCAACTTTACCTCTGAGCCCCACCTCGCCTCT
 AATTCACAGGTTCTCAAGGTGATCAAAGGCTGATCGCTCTGCTCCCGGTCTGCTTCCAAGCTGAAG
 AAGAACCTTGCTAGAACCCGTCAAAAAATCCCAACACCGTTCCTCCTCAGCCACACACAAAACACCG
 CAGCGGGACAGGTCGAGGCTCTTAGGCAAGAGACGTTTACTCTGAAACCAAGAGAGCCGAGACTCT
 GCCTACGTGGAGCCAAAGGAAGATTATTCACATGAACATGTGGACCGGTATGTCCACACCGCGAGCATA
 ACCACAGAGAGGAGACCCACAGCAGCAATGGCCACAGACACAGGGAGTCTCGCCACCGCTTAGGGACAT
 GGGTCGAGACCAGGACCAATGAGTGCATCAAACAACGAAGCCGGCATAAATCTAAGGATCGCTACTGT
 GACAAGGAGGGGAAGTAATATCCAAGAGAAGGAATGAGGCTGGCGAGTGGAAACAGGGATGTATACATCC
 GCCAATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAAGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_023116
Insert Size: 1968 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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_023116.4](#), [NP_075605.1](#)

RefSeq Size: 3945 bp

RefSeq ORF: 1968 bp

Locus ID: 12296

UniProt ID: [Q8CC27](#)

Cytogenetics: 2 10.7 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 (1) represents the longest transcript and encodes the longest isoform (1).