

Product datasheet for **SC315571**

CACNB1 (NM_199248) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CACNB1 (NM_199248) Human Untagged Clone
Tag:	Tag Free
Symbol:	CACNB1
Synonyms:	CAB1; CACNLB1; CCHLB1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC315571 representing NM_199248.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGTCCAGAAGACCAGCATGTCCCGGGGCCCTTACCCACCCTCCAGGAGATCCCCATGGAGGTCTTC
GACCCAGCCCGCAGGGCAAATACAGCAAGAGGAAAGGGCGATTCAAACGGTCAGATGGGAGCACGTCC
TCGGATACCACATCCAACAGCTTTGTCCGCCAGGGCTCAGCGGAGTCTACACCAGCCGTCCATCAGAC
TCTGATGTATCTCTGGAGGAGGACCGGGAAGCCTTAAGGAAGGAAGCAGAGCGCCAGGCATTAGCGCAG
CTCGAGAAGGCCAAGACCAAGCCAGTGGCATTGCTGTGCGGACAAATGTTGGCTACAATCCGTCTCCA
GGGGATGAGGTGCCTGTGCAGGGAGTGGCCATCACCTCGAGCCCAAAGACTTCTGCACATCAAGGAG
AAATAACAATAATGACTGGTGGATCGGGCGGCTGGTGAAGGAGGGCTGTGAGGTTGGCTTCATTCCCAGC
CCCGTCAAACGGACAGCCTTCGCCTGCTGCAGGAACAGAAGCTGCGCCAGAACCCTCGGCTCCAGC
AAATCAGGCGATAACTCCAGTTCAGTCTGGGAGATGTGGTACTGGCACCCGCCCCACACCCCT
GCCAGTGCCAAACAGAAGCAGAAGTCGACAGAGCATGTGCCCCCTATGACGTGGTGCCTCCATGAGG
CCCATCATCTGGTGGGACCGTCTCAAGGGCTACGAGGTTACAGACATGATGCAGAAAGCTTTATTT
GACTTCTTGAAGCATCGTTTGTATGGCAGGATCTCCATCACTCGTGTGACGGCAGATATTTCCCTGGCT
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GCTGAGGTGCAGAGTGAAATCGAGCGAATCTTCGAGCTGGCCCGGACCCTTCAGTTGGTGCCTCTGGAT
GCTGACACCATCAATCACCCAGCCAGCTGTCCAAGACCTCGCTGGCCCCATCATTGTTTACATCAAG
ATCACCTCTCCAAGGTAATCTCAAAGGCTCATCAAGTCCCAGGAAAGTCTCAGTCCAAACACCTCAAT
GTCCAAATAGCGGCTCGGAAAAGCTGGCACAGTGGCCCCCTGAAATGTTTGACATCATCTGGATGAG
AACCAATTGGAGGATGCCTGCGAGCATCTGGCGGAGTACTTGAAGCCTATTGGAAGGCCACACACCCG
CCCAGCAGCACGCCACCCAATCCGCTGCTGAACCGCACCATGGCTACCGCAGCCCTGGCTGCCAGCCCT
GCCCTGTCTCCAACCTCCAGGTACAGGTGCTCACCTCGCTCAGGAGAAACCTCGGCTTCTGGGGCGGG
CTGGAGTCTCACAGCGGGCAGTGTGGTGGCCAGGAGCAGGAACATGCCATGTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_199248

Insert Size: 1437 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: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:	NM_199248.2
RefSeq Size:	1770 bp
RefSeq ORF:	1437 bp
Locus ID:	782
UniProt ID:	Q02641
Cytogenetics:	17q12
Protein Families:	Druggable Genome, Ion Channels: Other
Protein Pathways:	Arrhythmogenic right ventricular cardiomyopathy (ARVC), Cardiac muscle contraction, Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM), MAPK signaling pathway
MW:	53 kDa
Gene Summary:	<p>The protein encoded by this gene belongs to the calcium channel beta subunit family. It plays an important role in the calcium channel by modulating G protein inhibition, increasing peak calcium current, controlling the alpha-1 subunit membrane targeting and shifting the voltage dependence of activation and inactivation. Alternative splicing occurs at this locus and three transcript variants encoding three distinct isoforms have been identified. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (3), also known as beta-1b1, betaB, and beta-1c, differs in the 3' UTR and 3' coding region, compared to variant 1. It encodes isoform 3 which is shorter and has a distinct C-terminus, compared to isoform 1.</p>