

## Product datasheet for **SC310218**

### **CACNB2 (NM\_201572) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CACNB2 (NM_201572) Human Untagged Clone
Tag:	Tag Free
Symbol:	CACNB2
Synonyms:	CAB2; CACNLB2; CAVB2; MYSB
Vector:	<u>pCMV6 series</u>



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- Fully Sequenced ORF:** >NCBI ORF sequence for NM\_201572, the custom clone sequence may differ by one or more nucleotides  
 ATGAATCAGGGGAGTGGACTGGACCTGCTGAAGATCTCATATGGAAAAGGAGCCAGAAGG  
 AAAAACAGATTTAAAGGATCTGATGGAAGCACGTCATCTGATACTACCTCAAATAGTTTT  
 GTTCGCCAGGGTTCGGCAGACTCCTACACTAGCCGTCCATCCGATTCCGATGTATCTCTG  
 GAGGAGGACCGGGAGGCAGTGGCAGAGAAGCGGAGCGGCAGGCCAGGCACAGTTGGAA  
 AAAGCAAAGACAAAGCCCGTTGCATTTGCGGTTCCGACAATGTCAGCTACAGTGGCGGC  
 CATGAAGATGATGTTCCAGTGCCTGGCATGGCCATCTCATTGAAAGCAAAGATTTTCTG  
 CATGTTAAGGAAAAATTTAAACAATGACTGGTGGATAGGGCGATTGGTAAAAAGAAGGCTGT  
 GAAATCGGATTCATTCCAAGCCAGTCAAAGTAAACATGAGGCTGCAGCATGAACAG  
 AGAGCCAAGCAAGGGAAATTTACTCCAGTAAATCAGGAGGAAATTCATCATCCAGTTTG  
 GGTGACATAGTACCTAGTCCAGAAAATCAACACCTCCATCATCTGGTCAAAAATCTGCA  
 GATGAACAAGACCAGTGGAAAATGCAGGCTTGTGTTGGCGGTTACTACAGAGCACACT  
 CCTCCGTATGATGTTGACCTTCCATGCGACCAGTGGTCTAGTGGGCCCTTCTCTGAAG  
 GGCTACGAGGTACAGATATGATGCAAAAAGCGCTGTTTGTATTTTTAAACACAGATTT  
 GAAGGGCGGATATCCATACAAGGGTACCGCTGACATCTCGCTTGCCAAACGCTCGGTA  
 TTAACAATCCCAGTAAGCACGCAATAATAGAAAGATCCAACACAAGGTCAAGCTTAGCG  
 GAAGTTCAGAGTAAAATCGAAAGGATTTTTGAAGTTCGAAGAATTCAGTGGTGGTGC  
 CTTGACGCGGATACAATTAATCATCCAGCTCAACTCAGTAAAACCTCCTTGGCCCTATT  
 ATAGTATATGTAAGATTTCTTCTCCTAAGGTTTTACAAGGTTAATAAAATCTCGAGGG  
 AAATCTCAAGCTAAACACCTCAACGTCCAGATGGTAGCAGCTGATAAACTGGCTCAGTGT  
 CCTCCAGAGCTGTTGATGTGATCTGGATGAGAACCAGCTTGAGGATGCCTGTGAGCAC  
 CTTGCGACTATCTGGAGCCTACTGGAAGGCCACCCATCCTCCAGCAGTAGCCTCCCC  
 AACCCCTCCTTAGCCGTACATTAGCCACTTCAAGTCTGCCTCTTAGCCCCACCCTAGCC  
 TCTAATTCACAGGTTCTCAAGGTGATCAGAGGACTGATCGCTCCGCTCCTATCCGTTCT  
 GCTTCCCAAGCTGAAGAAGAACCTAGTGTGGAACCAGTCAAGAAATCCCAGCACCGCTCT  
 TCCTCCTCAGCCCCACACCACAACCATCGCAGTGGGACAAGTCCGCGCCTCTCCAGGCAA  
 GAGACATTTGACTCGGAAACCCAGGAGAGTGGAGACTCTGCCTACGTAGAGCCAAAGGAA  
 GATTATCCCATGACCACGTGGACCACTATGCCTCACACCGTGACCACAACCACAGAGAC  
 GAGACCCACGGGAGCAGTGACCACAGACACAGGGAGTCCCGGCACCGTTCCCGGGACGTG  
 GATCGAGAGCAGGACCACAACGAGTGAACAAGCAGCGCAGCCGTATAAATCCAAGGAT  
 CGCTACTGTGAAAAGGATGGAGAAGTGATATCAAAAAACGGAATGAGGCTGGGGAGTGG  
 AACAGGGATGTTTACATCCGCCAATGA
- Restriction Sites:** Please inquire
- ACCN:** NM\_201572
- 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_201572.1</a> , <a href="#">NP_963866.1</a>
<b>RefSeq Size:</b>	3229 bp
<b>RefSeq ORF:</b>	1827 bp
<b>Locus ID:</b>	783
<b>UniProt ID:</b>	<a href="#">Q08289</a>
<b>Cytogenetics:</b>	10p12.33-p12.31
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Other
<b>Protein Pathways:</b>	Arrhythmogenic right ventricular cardiomyopathy (ARVC), Cardiac muscle contraction, Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM), MAPK signaling pathway
<b>Gene Summary:</b>	<p>This gene encodes a subunit of a voltage-dependent calcium channel protein that is a member of the voltage-gated calcium channel superfamily. The gene product was originally identified as an antigen target in Lambert-Eaton myasthenic syndrome, an autoimmune disorder. Mutations in this gene are associated with Brugada syndrome. Alternatively spliced variants encoding different isoforms have been described. [provided by RefSeq, Feb 2013]</p> <p>Transcript Variant: This variant (8) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at an alternate start codon compared to variant 1. The encoded isoform (8) has a distinct N-terminus and is shorter than isoform</p>