

## Product datasheet for **SC331704**

### **CACNB3 (NM\_001206917) Human Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CACNB3 (NM\_001206917) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** CACNB3  
**Synonyms:** CAB3; CACNLB3  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC331704 representing NM\_001206917.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGAGGGTTCAGCCGACTCTACACCAGCCGCCATCTCTGGACTCAGACGTCTCCCTGGAGGAGGAC
CGGGAGAGTGCCCGCGTGAAGTAGAGAGCCAGGCTCAGCAGCAGCTCGAAAGGGCCAAGCACAAACCT
GTGGCATTGCGGTGAGGACCAATGTCAGTACTGTGGCGTACTGGATGAGGAGTGCCAGTCCAGGGC
TCTGGAGTCAACTTTGAGGCCAAGATTTCTGCACATTAAGAGAAAGTACAGCAATGACTGGTGGATC
GGGCGGTAGTGAAGAGGGCGGGACATCGCCTTCATCCCCAGCCCCAGCGCTGGAGAGCATCCGG
CTCAAACAGGAGCAGAAGGCCAGGAGATCTGGGAACCTTCCAGCCTGAGTGACATTGGCAACCGACGC
TCCCCTCCGCCATCTCTAGCCAAGCAGAAGCAAAGCAGGCGGAACATGTTCCCCATATGACGTGGTG
CCCTCCATGCGGCCTGTGGTGTGGTGGGACCCTCTCTGAAAGGTTATGAGGTCACAGACATGATGCAG
AAGGCTCTCTCGACTTCTCAAACACAGATTTGATGGCAGGATCTCCATCACCCGAGTCACAGCCGAC
CTCTCCCTGGCAAAGCGATCTGTGCTCAACAATCCGGGCAAGAGGACCATCATTGAGCGCTCCTCTGCC
CGCTCCAGCATTGCGGAAGTGCAGAGTGAGATCGAGCGCATATTTGAGCTGGCCAAATCCCTGCAGCTA
GTAGTGTGGACGCTGACACCATCAACCACCCAGCACAGCTGGCCAAGACCTCGCTGGCCCCATCATC
AAGCACCTGACCGTACAGATGATGGCATATGATAAGCTGGTTCAGTGCCACCGGAGTCATTTGATGTG
ATTCTGGATGAGAACCAGCTGGAGGATGCCTGTGAGCACCTGGCTGAGTACCTGGAGGTTTACTGGCGG
GCCACGCACCACCCAGCCCTGGCCCCGACTTCTGGGTCTCCAGTGCCATCCCCGGACTTCAGAAC
CAGCAGCTGCTGGGGGAGCGTGGCGAGGAGCACTCCCCCTTGAGCGGGACAGCTTGATGCCCTCTGAT
GAGGCCAGCGAGAGCTCCCGCAAAGCCTGGACAGGATCTTACAGCGTAGCTCCCGCCACCTGGAGGAG
GACTATGCAGATGCCTACCAGGACCTGTACCAGCCTCACCGCAAACACACCTCGGGGCTGCCTAGTGCT
AACGGGCATGACCCCAAGACCGGCTTCTAGCCCAGGACTCAGAGCACAACCACAGTGACCCGGAAGTGG
CAGCGCAACCGGCTTGGCCAAGGATAGCTACTGA
```

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001206917  
**Insert Size:** 1416 bp



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|-------------------------------|---|
| <b>OTI Disclaimer:</b>        | 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).  |
| <b>Components:</b>            | 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_001206917.1</a>  |
| <b>RefSeq Size:</b>           | 2576 bp   |
| <b>RefSeq ORF:</b>            | 1416 bp   |
| <b>Locus ID:</b>              | 784   |
| <b>UniProt ID:</b>            | <a href="#">P54284</a>  |
| <b>Cytogenetics:</b>          | 12q13.12  |
| <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>MW:</b>                    | 53.1 kDa  |
| <b>Gene Summary:</b>          | <p>This gene encodes a regulatory beta subunit of the voltage-dependent calcium channel. Beta subunits are composed of five domains, which contribute to the regulation of surface expression and gating of calcium channels and may also play a role in the regulation of transcription factors and calcium transport. [provided by RefSeq, Oct 2011]</p> <p>Transcript Variant: This variant (4) 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 (4) has a distinct N-terminus and is shorter than isoform 1. 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> |