

Product datasheet for **SC328961**

CACNB2 (NM_001167945) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | CACNB2 (NM_001167945) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | CACNB2 |
| Synonyms: | CAB2; CACNLB2; CAVB2; MYSB |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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Fully Sequenced ORF: >SC328961 representing NM_001167945.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGAATCAGGGGAGTGGACTGGACCTGCTGAAGATCTCATATGAAAAAGGAGCCAGAAGGAAAAACAGA
TTTAAAGGATCTGATGGAAGCACGTCATCTGATACTACCTCAAATAGTTTGTTCGCCAGGGTTCGGCA
GACTCCTACACTAGCCGTCATCCGATTCCGATGTATCTCTGGAGGAGGACCGGGAGGCAGTGCCGAGA
GAAGCGGAGCGGCAGGCCAGGCACAGTTGAAAAAGCAAAGACAAGGCCGTTGCATTTGCGGTTCCGG
ACAAATGTCAGCTACAGTGCGGCCCATGAAGATGATGTTCCAGTGCCTGGCATGGCCATCTCATTGAA
GCAAAAGATTTTCTGCATGTTAAGGAAAAATTTAAACAAGACTGGTGGATAGGGCGATTGGTAAAAGAA
GGCTGTGAAATCGGATTCATTCCAAGCCCAGTCAAAGTAAAGAAACATGAGGCTGCAGCATGAACAGAGA
GCCAAGCAAGGGAAATTCTACTCCAGTAAATCAGGAGGAAATTCATCATCCAGTTTGGGTGACATAGTA
CCTAGTCCAGAAATCAACACCTCCATCATCTGCTAAGCAGAAGCAGAAATCGACAGAGCACACTCCT
CCGTATGATGTGGTACCTTCCATGCGACCAGTGGTCTAGTGGGCCCTTCTCTGAAGGGCTACGAGGTC
ACAGATATGATGCAAAAAGCGCTGTTTGTATTTTTTAAACACAGATTTGAAGGGCGGATATCCATCACA
AGGGTCACCGCTGACATCTCGCTTGCCAAACGCTCGGTATTAACAATCCAGTAAGCACGCAATAATA
GAAAGATCCAACACAAGGTCAAGCTTAGCGGAAGTTCAGAGTGAATCGAAAGGATTTTTGAACTTGCA
AGAACATTGCAGTTGGTGGTCTTGACGCGGATACAATTAATCATCCAGCTCAACTCAGTAAACCTCC
TTGGCCCTATTATAGTATATGTAAGATTTTCTCTCCTAAGGTTTTACAAAGTTAATAAAATCTCGA
GGGAAATCTCAAGCTAAACACCTCAACGTCCAGATGGTAGCAGCTGATAAAGTGGCTCAGTGTCTCCA
GAGCTGTTTCGATGTGATCTTGGATGAGAACCAGCTTGAGGATGCCTGTGAGCACCTTGCCGACTATCTG
GAGGCCACTGGAAGGCCACCCATCCTCCAGCAGTAGCCTCCCCAACCTCTCCTTAGCCGTACATTA
GCCACTTCAAGTCTGCCTTAGCCCAACCTAGCCTCTAATTACAGGGTTCTCAAGGTGATCAGAGG
ACTGATCGCTCCGCTCCTATCCGTTCTGCTTCCCAAGCTGAAGAAGAACCAGTGTGGAACCAAGTCAAG
AAATCCCAGCACCGCTCTTCTCCTCAGCCCCACACCACAACCATCGCAGTGGGACAAGTCCGCGCCTC
TCCAGGCAAGAGACATTTGACTCGGAAACCCAGGAGAGTCGAGACTCTGCCTACGTAGAGCCAAAGGAA
GATTATTTCCATGACCACGTGGACCACTATGCCTCACACCGTGACCACAACCACAGAGACGAGACCCAC
GGGAGCAGTGACCACAGACACAGGGAGTCCCGCACCGTTCGCGGACGTGGATCGAGAGCAGGACCAC
AACGAGTGCAACAAGCAGCGCAGCCGTATAAATCCAAGGATCGCTACTGTGAAAAGGATGGAGAAGTG
ATATCAAAAAACGGAATGAGGCTGGGGAGTGGAAACAGGGATGTTTACATCCGCCAATGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_001167945

Insert Size: 1785 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).

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| 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_001167945.1 |
| RefSeq Size: | 4187 bp |
| RefSeq ORF: | 1785 bp |
| Locus ID: | 783 |
| Cytogenetics: | 10p12.33-p12.31 |
| 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: | 66.7 kDa |
| Gene Summary: | <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 (9) uses an alternate 5' terminal exon, lacks an alternate in-frame exon and contains an alternate in-frame exon in the 5' coding region, compared to variant 2. These differences cause translation initiation at an alternate start codon, and result in an isoform (9) with a shorter and distinct N-terminus, compared to isoform 2. 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> |