

Product datasheet for **SC308065**

CACNB2 (NM_201590) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CACNB2 (NM_201590) Human Untagged Clone
Tag:	Tag Free
Symbol:	CACNB2
Synonyms:	CAB2; CACNLB2; CAVB2; MYSB
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF sequence for NM_201590 edited
 ATGCTTGACAGACGCCTTATAGCTCCTCAAACCTAAATACATTATTCCTGGGGTTTCGGCA
 GACTCCTACACTAGCCGTCCATCCGATTCGATGTATCTCTGGAGGAGGACCGGGAGGCA
 GTGCGCAGAGAAGCGGAGCGGCAGGCCACAGTTGGAAAAAGCAAAGACAAAGCCC
 GTTGCATTTGCGGTTCCGACAAATGTCAGCTACAGTGCCGCCATGAAGATGATGTTCCA
 GTGCCTGGCATGGCCATCTCATTGCAAGCAAAAGATTTTCTGCATGTTAAGGAAAAATTT
 AACAACTGACTGGTGGATAGGGCGATTGGTAAAAGAAGGCTGTGAAATCGGATTCATTCCA
 AGCCCAGTCAAACCTAGAAAACATGAGGCTGCAGCATGAACAGAGAGCCAAGCAAGGGAAA
 TTCTACTCCAGTAAATCAGGAGGAAATTCATCATCCAGTTTGGGTGACATAGTACCTAGT
 TCCAGAAAATCAACACCTCCATCATCTGCTATAGACATAGATGCTACTGGCTTAGATGCA
 GAAGAAAATGATATTCCAGCAAACCACCGCTCCCCTAAACCCAGTGCAAACAGTGAACG
 TCACCCCACTCCAAGAGAAAAGAATGCCCTTCTTTAAGAAGACAGAGCACACTCCTCCG
 TATGATGTGGTACCTTCCATGCGACCAGTGGTCTAGTGGGCCCTTCTCTGAAGGGCTAC
 GAGGTCACAGATATGATGCAAAAAGCGCTGTTTGATTTTTTAAAAACAGATTTGAAGGG
 CGGATATCCATCACAAGGGTCACCGCTGACATCTCGCTTGCCAAACGCTCGGTATTAAC
 AATCCCAGTAAGCACGAATAATAGAAAGATCCAACACAAGGTCAAGCTTAGCGGAAGTT
 CAGAGTAAATCGAAAGGATTTTTGAACTTGAAGAACATTGCAGTTGGTGGTCTTGAC
 GCGGATACAATTAATCATCCAGCTCAACTCAGTAAAACCTCCTTGGCCCTATTATAGTA
 TATGTAAGATTTCTTCTCCTAAGGTTTTACAAAGGTTAATAAAATCTCGAGGGAAATCT
 CAAGCTAAACACCTCAACGTCCAGATGGTAGCAGCTGATAAACTGGCTCAGTGTCTCCCA
 GAGCTGTTTCGATGTGATCTTGGATGAGAACCAGCTTGAGGATGCCTGTGAGCACCTTGCC
 GACTATCTGGAGGCTACTGGAAGGCCACCCATCCTCCCAGCAGTAGCCTCCCAACCT
 CTCCTTAGCCGTACATTAGCCACTTCAAGTCTGCCTCTTAGCCCCACCTAGCCTTAAT
 TCACAGGTTCTCAAGGTGATCAGAGGACTGATCGCTCCGCTCCTATCCGTTCTGCTTCC
 CAAGCTGAAGAAGAACCTAGTGTGGAACCAAGTCAAGAAATCCCAGCACCGCTCTTCTCC
 TCAGCCCCACACCACAACCATCGCAGTGGGACAAGTTCGCGGCCTCTCCAGGCAAGAGACA
 TTTGACTCGGAAACCCAGGAGAGTTCGAGACTCTGCCTACGTAGAGCCAAAGGAAGATTAT
 TCCCATGACCACGTGGACCACTATGCCTCACACCGTGACCACAACCACAGAGACGAGACC
 CACGGGAGCAGTGACCACAGACACAGGGAGTCCCGGCACCGTTCCCGGGACGTGGATCGA
 GAGCAGGACCACAACGAGTGCAACAAGCAGCGCAGCCGTCATAAATCCAAGGATCGCTAC
 TGTGAAAAGGATGGAGAAGTATATCAAAAAACGGAATGAGGCTGGGGAGTGGAACAGG
 GATGTTTACATCCGCCAATGA

Restriction Sites: Please inquire

ACCN: NM_201590

Insert Size: 4000 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_201590.1 , NP_963884.1
RefSeq Size:	3375 bp
RefSeq ORF:	1821 bp
Locus ID:	783
UniProt ID:	Q08289
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
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 (3) represents use of an alternate promoter and therefore differs in the 5' UTR and 5' coding region, compared to variant 2. These differences cause translation initiation at an alternate start codon, and result in an isoform (3) with a shorter and distinct N-terminus, compared to isoform 2.</p>