

Product datasheet for **SC308069**

CACNB2 (NM_201596) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CACNB2 (NM_201596) 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: >NCBI ORF sequence for NM_201596, the custom clone sequence may differ by one or more nucleotides

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ATGGTCCAAAGGGACATGTCCAAGTCGCCTCCCACAGCGGCGGCGGCGGTGGCGCAGGAG
ATCCAGATGGAAGTCTAGAGAAGCTGGCTCCCGCGGGGGCGCTCGGAGCCGCCGACAG
TCATATGGAAGGAGCCAGAAGGAAAAACAGATTTAAAGGATCTGATGGAAGCACGTCA
TCTGATACTACCTCAAATAGTTTTGTTCCGCGGGTTCGGCAGACTCCTACACTAGCCGT
CCATCCGATTCGATGTATCTCTGGAGGAGGACCGGGAGGCAGTCCGCAGAGAAGCGGAG
CGGCAGGCCAGGCACAGTTGGAAGAAAGCAAAGCAAAGCCCGTTGCATTTGCGGTTCCG
ACAAATGTCAGCTACAGTGCAGCCCATGAAGATGATGTTCCAGTGCCTGGCATGGCCATC
TCATTCGAAGCAAAGATTTTCTGCATGTTAAGGAAAAATTTAACAATGACTGGTGGATA
GGGCGATTGGTAAAAGAAGGCTGTGAAATCGGATTCATTCCAAGCCAGTCAAAC TAGAA
AACATGAGGCTGCAGCATGAACAGAGAGCAAGCAAGGGAAATTTACTCCAGTAAATCA
GGAGGAAATTCATCATCCAGTTTGGGTGACATAGTACCTAGTTCAGAAAATCAACACCT
CCATCATCTGCTATAGACATAGATGCTACTGGCTTAGATGCAGAAGAAAATGATATTCCA
GCAAACACCCTCCCTAAACCCAGTCAAACAGTGTAAACGTCACCCCACTCAAAGAG
AAAAGAATGCCCTTCTTTAAGAAGACAGAGCACACTCCTCCGTATGATGTGGTACCTTCC
ATGCGACCAAGTGGTCTAGTGGGCCCTTCTCTGAAGGGCTACGAGGTCACAGATATGATG
CAAAAAGCGCTGTTTGTATTTTTAAAACACAGATTTGAAGGGCGGATATCCATCAAAAGG
GTCACCGCTGACATCTCGCTTGCCAAACGCTCGGTATTAACAATCCCAGTAAGCACGCA
ATAATAGAAAGATCCAACACAAGGTCAAGCTTAGCGGAAGTTCAGAGTGAATCGAAAGG
ATTTTTGAACTTGCAAGAACATTGCAGTTGGTGGTCTTGACGCGGATACAATTAATCAT
CCAGCTCAACTCAGTAAAACCTCCTTGGCCCCTATTATAGTATATGTAAGATTTCTTCT
CCTAAGGTTTTACAAAGTTAATAAAAATCTCGAGGGAAATCTCAAGCTAAACACCTCAAC
GTCCAGATGGTAGCAGCTGATAAACTGGCTCAGTGTCTCCAGAGCTGTTCCGATGTGATC
TTGGATGAGAACCAGCTTGAGGATGCCTGTGAGCACCTTGCCGACTATCTGGAGGCTAC
TGAAGGCCACCCATCCTCCCAGCAGTAGCCTCCCAACCCTCTCCTTAGCCGTACATTA
GCCACTTCAAGTCTGCCTCTTAGCCCCACCCTAGCCTCTAATTCACAGGGTTCTCAAGGT
GATCAGAGGACTGATCGCTCCGCTCCTATCCGTTCTGCTTCCAAGTGAAGAAGAACCT
AGTGTGGAACCAGTCAAGAAATCCCAGCACCGCTTCTCCTCCTCAGCCCCACACCACAAC
CATCGCAGTGGGACAAGTCGCGGCTCTCCAGGCAAGAGACATTTGACTCGGAAACCCAG
GAGAGTGCAGACTCTGCCTACGTAGAGCCAAGGAAGATTATTCCATGACCACGTGGAC
CACTATGCCTCACACCGTGACCACAACCACAGAGACGAGACCCACGGGAGCAGTGACCAC
AGACACAGGGAGTCCCGGCACCGTTCCCGGACGTGGATCGAGAGCAGGACCACAACGAG
TGCAACAAGCAGCGCAGCCGTCATAAATCCAAGGATCGCTACTGTGAAAAGGATGGAGAA
GTGATATCAAAAAACGGAAATGAGGCTGGGGAGTGAACAGGGATGTTTACATCCGCCAA
TGA
    
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Restriction Sites: Please inquire

ACCN: NM_201596

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info</p>
OTI Annotation:	<p>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.</p>
Components:	<p>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).</p>
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_201596.1 , NP_963890.1
RefSeq Size:	3445 bp
RefSeq ORF:	1983 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 (2) encodes the longest isoform (2).</p>