

Product datasheet for **SC314275**

CACNB2 (NM_201571) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CACNB2 (NM_201571) 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:	<p>>NCBI ORF sequence for NM_201571, the custom clone sequence may differ by one or more nucleotides</p> <pre> ATGAATCAGGGGAGTGGACTGGACCTGCTGAAGATCTCATATGGAAAAGGAGCCAGAAGG AAAAACAGATTTAAAGGATCTGATGGAAGCACGTCATCTGATACTACCTCAAATAGTTTT GTTCCGCCAGGGTTCGGCAGACTCCTACACTAGCCGTCATCCGATTCCGATGTATCTCTG GAGGAGGACCGGGAGGCAGTGGCAGAGAAGCGGAGCGGCAGGCCAGGCACAGTTGGAA AAAGCAAAGACAAAGCCCGTTGCATTTGCGGTTCCGACAATGTCAGCTACAGTGCCGCC CATGAAGATGATGTTCCAGTGCCTGGCATGGCCATCTCATTGAAAGCAAAGATTTTCTG CATGTTAAGGAAAAATTTAAACAATGACTGGTGGATAGGGCGATTGGTAAAAAGAAGGCTGT GAAATCGGATTCATTCCAAGCCAGTCAAAGTAAACATGAGGCTGCAGCATGAACAG AGAGCCAAGCAAGGAAATTTACTCCAGTAAATCAGGAGGAAATTCATCATCCAGTTTG GGTGACATAGTACCTAGTCCAGAAAATCAACACCTCCATCATCTGCTATAGACATAGAT GCTACTGGCTTAGATGCAGAAGAAAATGATTTCCAGCAAACCCGCTCCCCTAAACCC AGTGCAAACAGTGAACGTCACCCCACTCAAAGAGAAAAGAATGCCCTTCTTTAAGAAG ACAGAGCACACTCTCCGTATGATGTGGTACCTTCCATGCGACCAGTGGTCTAGTGGGC CCTTCTCTGAAGGGCTACGAGGTACAGATATGATGCAAAAAGCGCTGTTTGATTTTTTA AAACACAGATTTGAAGGGCGGATATCCATCACAAGGGTCAACCGCTGACATCTCGCTTGCC AAACGCTCGGTATTAACAATCCAGTAAGCACGCAATAATAGAAAGATCCAACACAAGG TCAAGCTTAGCGGAAGTTCAGAGTGAATCGAAAGGATTTTTGAACTTGAAGAACATTG CAGTTGGTGGTCTTGACGCGGATACAATTAATCATCCAGCTCAACTCAGTAAAACCTCC TTGGCCCTATTATAGTATATGTAAGATTTCTTCTCCTAAGGTTTTACAAAGGTTAATA AAATCTCGAGGAAATCTCAAGCTAAACACCTCAACGTCCAGATGGTAGCAGCTGATAAA CTGGCTCAGTGTCTCCAGAGCTGTTGATGTGATCTTGGATGAGAACCAGCTTGAGGAT GCCTGTGAGCACCTTGCCGACTATCTGGAGGCCTACTGGAAGGCCACCCATCCTCCAGC AGTAGCCTCCCCAACCTCTCCTTAGCCGTACATTAGCCACTTCAAGTCTGCCTCTTAGC CCCACCTAGCCTCTAATTCACAGGGTCTCAAGGTGATCAGAGGACTGATCGCTCCGCT CCTATCCGTTCTGCTTCCCAAGCTGAAGAAGAACCCTAGTGTGGAACCAAGTCAAGAATCC CAGCACCGCTCTTCTCCTCAGCCCCACACCACAACCATCGCAGTGGGACAAGTCGCGGC CTCTCCAGGCAAGAGACATTTGACTCGGAAACCCAGGAGAGTGGAGACTGCTGCTACGTA GAGCCAAAGGAAGATTATCCCATGACCACGTGGACCACTATGCCTCACACCGTGACCAC AACCACAGAGACGAGACCACGGGAGCAGTGACCACAGACACAGGGAGTCCCGGCACCGT TCCCGGGACGTGGATCGAGAGCAGGACCAACGAGTGCAACAAGCAGCGCAGCCGTCAT AAATCCAAGGATCGCTACTGTGAAAAGGATGGAGAAGTATCAAAAAACGGAATGAG GCTGGGGAGTGGAACAGGGATGTTTACATCCCCCAA </pre>
Restriction Sites:	Please inquire
ACCN:	NM_201571
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_201571.1 , NP_963865.1
RefSeq Size:	3301 bp
RefSeq ORF:	1899 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 (6) uses an alternate 5' terminal exon 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 (6) with a shorter and distinct N-terminus, compared to isoform 2.</p> <p>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>