

Product datasheet for **SC314199**

CACNB2 (NM_201570) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CACNB2 (NM_201570) 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)

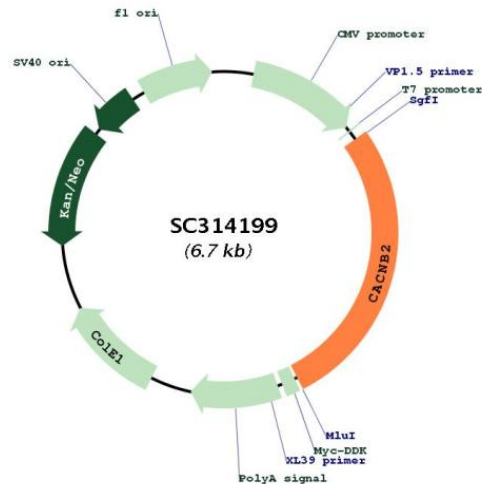


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Fully Sequenced ORF: >SC314199 representing NM_201570.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGAAGGCCACCTGGATCAGGCTTCTGAAAAGAGCCAAGGGAGGAAGGCTGAAGAATTCTGATATCTGT
GGTTCGGCAGACTCCTACACTAGCCGTCATCCGATTCCGATGTATCTCTGGAGGAGACCGGGAGGCA
GTGCGCAGAGAAGCGGAGCGGCAGGCCAGGCACAGTTGGAAAAAGCAAAGACAAAGCCCGTTGCATTT
GCGGTTCCGGACAATGTAGCTACAGTGCAGCCATGAAGATGATGTTCCAGTGCCTGGCATGGCCATC
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AGACACAGGGAGTCCCGCACCGTTCCCGGACGTGGATCGAGAGCAGGACCACAACGAGTGCAACAAG
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AATGAGGCTGGGAGTGGAAACAGGGATGTTTACATCCGCCAATGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI

Plasmid Map:


ACCN: NM_201570

Insert Size: 1839 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:

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_201570.2](#)

RefSeq Size: 4322 bp

RefSeq ORF: 1839 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
MW:	68.8 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 (7) 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 (7) with a shorter and distinct N-terminus, compared to isoform 2.</p>