

## Product datasheet for **RC214019**

### **CACNB2 (NM\_201597) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CACNB2 (NM_201597) Human Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide  
Sequence:

>RC214019 representing NM\_201597  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGTCCAAAGGGACATGTCCAAGTCGCCTCCACAGCGCGCGCGGTGGCGCAGGAGATCCAGATGG  
AACTGCTAGAGAACGTGGCTCCCGCGGGGCGCTCGGAGCCGCCCACAGTCATATGAAAAAGGAGCCAG  
AAGGAAAAACAGATTTAAAGGATCTGATGGAAGCACGTCTGATACTACCTCAATAGTTTTGTTTCGC  
CAGGGTTCGCGAGACTCTACACTAGCCGTCCATCCGATTCGATGTATCTGAGGAGGACCGGGAGG  
CAGTGCAGAGAGAAGCGGAGCGGAGCCAGGCACAGTTGAAAAAGCAAAGCAAAGCCGTTGCATT  
TGCGGTTTCGACAAAATGTCAGCTACAGTGCGCCCATGAAGATGATGTTCCAGTGCCTGGCATGGCCATC  
TCATTGAAAGCAAAGATTTTCTGCATGTTAAGGAAAAATTAACAATGACTGGTGGATAGGGCGATTGG  
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ACAGAGAGCCAAGCAAGGAAATTTCTACTCCAGTAAATCAGGAGGAAATTCATCATCCAGTTTGGGTGAC  
ATAGTACCTAGTTCAGAAAAATCAACACCTCCATCATCTGGTGCAAAATCTGCAGATGAACAAGACCAGT  
GGAAAACTGCAGGCTTGTGGCGGTTACTACAGAGCACACTCCTCCGTATGATGTGGTACCTCCAT  
GCGACCAAGTGGTCTAGTGGGCCCTTCTCTGAAGGGCTACGAGGTACAGATATGATGCAAAAAGCGCTG  
TTTGATTTTTTAAACACAGATTTGAAGGGCGGATATCCATCACAAAGGTCACCGCTGACATCTCGCTT  
CCAAACGCTCGGTATTAACAATCCAGTAAGCACGCAATAATAGAAAGTCCAACACAAGGTCAAGCTT  
AGCGGAAGTTCAGAGTGAATCGAAAGGATTTTGAAGTTCGAAAGCAATGTCAGTTGGTGGTCTTGAC  
GCGGATACAATTAATCATCCAGCTCAACTCAGTAAACCTCCTTGGCCCTATTATAGTATATGTAAGA  
TTTCTTCTCCTAAGGTTTTACAAAGGTTAATAAAATCTCGAGGAAATCTCAAGCTAAACACCTCAACGT  
CCAGATGGTAGCAGCTGATAAACTGGCTCAGTGTCTCCAGAGCTGTTGATGTGATCTTGGATGAGAAC  
CAGCTTGAGGATGCCTGTGAGCACCTTGCCGACTATCTGGAGGCTACTGGAAGGCCACCCATCCTCCCA  
GCAGTAGCCTCCCAACCTCTCCTTAGCCGTACATTAGCCACTTCAAGTCTGCCTCTTAGCCCCACCT  
AGCCTCTAATTCACAGGTTCTCAAGGTGATCAGAGGACTGATCGCTCCGCTCCTATCCGTTCTGCTTCC  
CAAGCTGAAGAAGAACCTAGTGTGAACCAAGTCAAGAAATCCAGCACCGCTCTTCTCCTCAGCCCCAC  
ACCACAACCATCGCAGTGGGACAAGTCGCGGCCTCTCCAGGCAAGAGACATTTGACTCGGAAACCCAGGA  
GAGTGCAGACTCTGCCTACGTAGAGCAAAGGAAGATTATCCCATGACCACGTGGACCACTATGCCTCA  
CACCGTGACCACAACCACAGAGACGAGACCCACGGGAGCAGTGACCACAGACACAGGAGTCCCGGCACC  
GTTCCCGGACGTGGATCGAGAGCAGGACCACAACGAGTGAACAAGCAGCGCAGCCGTATAAATCCAA  
GGATCGCTACTGTGAAAAGGATGGAGAAGTGATATCAAAAAACGGAATGAGGCTGGGGAGTGGAACAGG  
GATGTTTACATCCGCAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**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\\_201597.3](#)

**RefSeq Size:** 3373 bp

**RefSeq ORF:** 1911 bp

**Locus ID:** 783

**UniProt ID:** [Q08289](#)

**Cytogenetics:** 10p12.33-p12.31

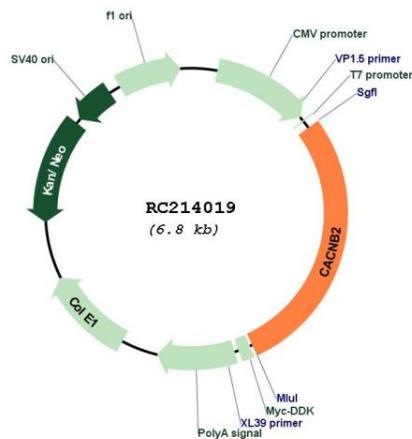
**Protein Families:** Druggable Genome, Ion Channels: Other

**Protein Pathways:** Arrhythmogenic right ventricular cardiomyopathy (ARVC), Cardiac muscle contraction, Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM), MAPK signaling pathway

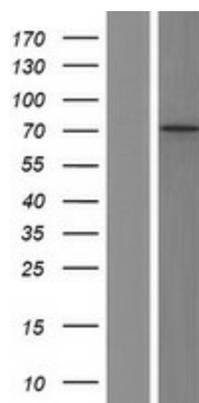
**MW:** 70.9 kDa

**Gene Summary:** 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]

### Product images:



Circular map for RC214019



Western blot validation of overexpression lysate (Cat# [LY404480]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214019 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).