

Product datasheet for **RC234230**

CACNB3 (NM_001206916) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CACNB3 (NM_001206916) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CACNB3
Synonyms:	CAB3; CACNLB3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RC234230 representing NM_001206916
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTTTTTCTGACTCCAGTGCACCTTCTCTGCTGAACGAGGGTTCAGCCGACTCTACACCAGCCGCC
 CATCTCTGGACTCAGACGTCTCCCTGGAGGAGACCAGGAGAGTGCCCGCGTGAAGTAGAGAGCCAGGC
 TCAGCAGCAGCTCGAAAGGGCCAAGCACAAACCTGTGGCATTTCGCGTGAGGACCAATGTGACTACTGT
 GGCGTACTGGATGAGGAGTCCCCAGTCCAGGGCTCTGGAGTCAACTTTGAGGCCAAAGATTTTCTGCACA
 TTAAGAGAAGTACAGCAATGACTGGTGGATCGGGCGGCTAGTAAAAGAGGGCGGGGACATCGCCTTCAT
 CCCCAGCCCCAGCGCTGGAGAGCATCCGGCTCAAACAGGAGCAGAAGGCCAGGAGATCTGGGAACCTT
 TCCAGCCTGAGTACATTGGCAACCGACGCTCCCTCCGCCATCTCTAGCCAAGCAGAAGCAAAGCAGG
 CGGAACATGTTCCCCATATGACGTGGTCCCTCCATGCGGCCTGTGGTCTGGTGGGACCCTCTCTGAA
 AGTTATGAGGTCACAGACATGATGCAGAAGGCTCTCTTCGACTTCTCAAACACAGATTTGATGGCAGG
 ATCTCCATCACCCGAGTACAGCCGACCTCTCCCTGGCAAAGCGATCTGTCTCAACAATCCGGGCAAGA
 GGACCATATTGAGCGCTCCTCTGCCCGCTCCAGCATTGCGGAAGTGCAGAGTGAGATCGAGCGCATATT
 TGAGCTGGCCAAATCCCTGCAGCTAGTAGTGTGGACGCTGACACCATCAACCACCCAGCACAGCTGGCC
 AAGACCTCGTGGCCCCATCATCGTCTTTGTCAAAGTGTCTCACCAAAGGTAATCCAGCGTCTCATT
 GCTCCCGGGGAAGTACAGATGAAGCACCTGACCGTACAGATGATGGCATATGATAAGCTGGTTCACTG
 CCCACCGAGTCAATTTGATGTGATTCTGGATGAGAACCAGCTGGAGGATGCTGTGAGCACCTGGCTGAG
 TACCTGGAGGTTTACTGGCGGGCCACGCCACCACCCAGCCCCTGGCCCCGACTTCTGGGTCTCCAGTG
 CCATCCCCGGACTTCAGAACCAGCAGCTGCTGGGGGAGCGTGGCGAGGAGCACTCCCCCTTCCAGCGGA
 CAGCTTATGCCCTCTGATGAGGCCAGCGAGAGCTCCCGCAAGCCTGGACAGGATCTTACAGCGTAGC
 TCCCGCCACCTGGAGGAGACTATGCAGATGCCTACCAGGACCTGTACCAGCCTACCCGCCAACACACCT
 CGGGGCTGCCTAGTGCTAACGGGCATGACCCCCAAGACCGGCTTCTAGCCAGGACTCAGAGCACAAACCA
 CAGTGACCGGAAGTGGCAGCGCAACCGGCCTTGGCCCAAGGATAGCTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234230 representing NM_001206916
 Red=Cloning site Green=Tags(s)

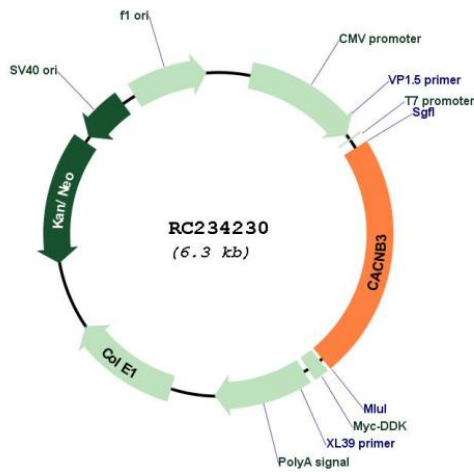
MSFSDSSATFLLNEGSADSYTSRPSLSDVSLIEDRESARREVESQAQQQLERAKHKPVAFAVRTNVSYC
 GVLDEECPVQSGVNF EAKDFLHIKEKYSNDWWIGRLVKEGGDIAFIPSPQRLESIRLKQEQAARRSGNP
 SSLSDIGNRRSPPPSLAKQKQKQAEHVPPYDVVPSMRPVVLVGP SLKGYEVTDMMQKALFDFLKHFRDGR
 ISITRVTADLSLAKRVLNPNPKRTIIERSSARSSIAEVQSEIERIFELAKSLQLVVLADTINHPAQLA
 KTS LAP IIVFVKVSSPKVLQRL IRSRGSQMKHLTVQMMAYDKLVQCPPE SFDVILDENQLEDACEHLAE
 YLEVYWRATHHPAPGPGLLGPPSAIPGLQNQQLLGERGEEHSPLERDSLMP SDEASESSRQAWTGSSQRS
 SRHLEEDYADAYQDLYQPHRQHTSGLPSANGHDPQDRLLAQDSEHNHSDRNWQRNRPWPKDSY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_001206916

ORF Size: 1449 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001206916.2
RefSeq Size:	2609 bp
RefSeq ORF:	1452 bp
Locus ID:	784
UniProt ID:	P54284
Cytogenetics:	12q13.12
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:	54.8 kDa
Gene Summary:	This gene encodes a regulatory beta subunit of the voltage-dependent calcium channel. Beta subunits are composed of five domains, which contribute to the regulation of surface expression and gating of calcium channels and may also play a role in the regulation of transcription factors and calcium transport. [provided by RefSeq, Oct 2011]