

Product datasheet for RC234113

CACNB3 (NM_001206915) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CACNB3 (NM_001206915) 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
ORF Nucleotide Sequence:	>RC234113 representing NM_001206915 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTATGACGACTCCTACGTGCCGGTTTGAGGACTCGGAGGCGGGTTCAGCCGACTCCTACACCAGCC
GCCCATCTCTGGACTCAGACGTCTCCCTGGAGGAGGACCGGGAGAGTGCCCGCGTGAAGTAGAGAGCCA
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GGCGGGGACATCGCCTTCATCCCCAGCCCCAGCGCTGGAGAGCATCCGGCTCAAACAGGAGCAGAAGG
CCAGGAGATCTGGGAACCTTCCAGCCTGAGTGACATTGGCAACCGACGCTCCCCCTCCGCCATCTTAGC
CAAGCAGAAGCAAAAGCAGGCGGAACATGTTCCCCCATATGACGTGGTGCCTCCATGCGGCCTGTGGT
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AACACAGATTTGATGGCAGGATCTCCATCACCCGAGTCACAGCCGACCTCTCCCTGGCAAAGCGATCTGT
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TATGATAAGCTGGTTCAGTGCCACCGGAGTCATTTGATGTGATTCTGGATGAGAACCAGCTGGAGGATG
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ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence: >RC234113 representing NM_001206915
Red=Cloning site Green=Tags(s)

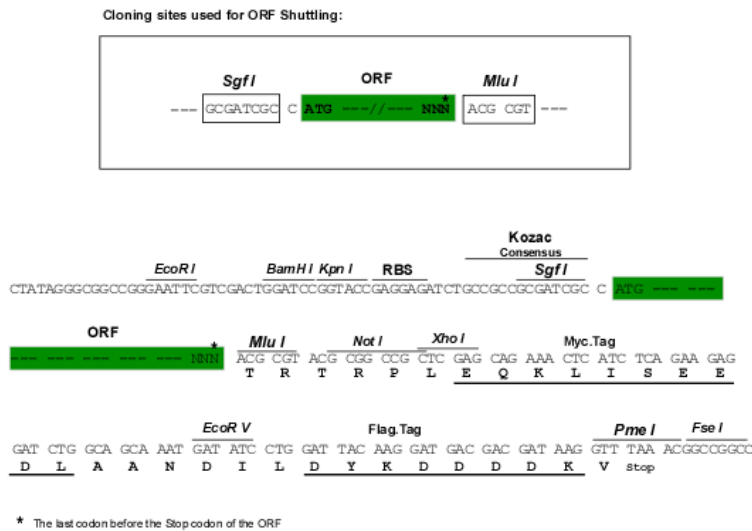
MYDDSYVPGFEDSEAGSADSYTSRPSLSDVSLIEDRESARREVESQAQQQLERAKKYSNDWWIGRLVKE
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LVGPSLKGYEVTMMQKALFDLKHFRDGRISITRVADLSLAKRSVLNPNPKRTIERSSSARSSIAEVQ
SEIERIFELAKSLQLVVLADDTINHPAQLAKTSLAPIIVFVKVSSPKVLQRLIRSRGKSQMKHLTVQMA
YDKLVQCPPESFDVILDENQLEDACEHLAEYLEVYWRATHHPAPGPGLLGPPSAIPGLQNQQLLGERGEE
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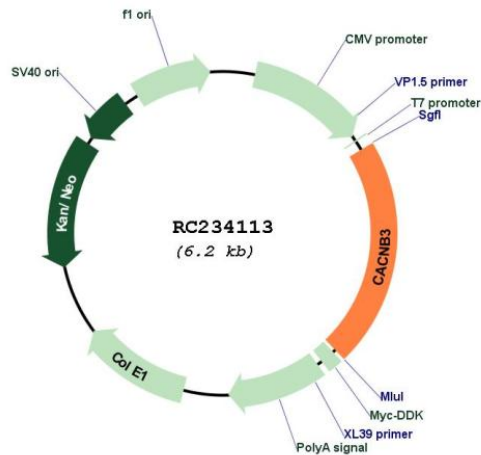
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001206915

ORF Size:	1329 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_001206915.2
RefSeq Size:	2835 bp
RefSeq ORF:	1332 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:	50.5 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]