

Product datasheet for **SC122090**

CACNB3 (NM_000725) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CACNB3 (NM_000725) Human Untagged Clone
Tag:	Tag Free
Symbol:	CACNB3
Synonyms:	CAB3; CACNLB3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_000725 edited
GTCGAGAGCGGGTGGGGGAGCGGTGATCTGAGCTCCGAGCAGCTGGTCTTCGCGGCTCG
CTCCCTCCTTCGCGCTCTCTCGCTCCCTGCCGCCGCCGAGGGCTGCGGGGCTCGGTGG
CATCTCCCGGGCGCGGCCCGCAGTCTTGGCCCTGCCCGGGCCGCTCCCGCCCCGGC
GCCGCTCGCTCCCCGACCCGGACTCCCCATGTATGACGACTCTACGTGCCCGGGTTT
GAGGACTCGGAGGCGGGTTCAGCCGACTCTACACCAGCCGCCATCTCTGGACTCAGAC
GTCTCCCTGGAGGAGACCGGGAGAGTGCCTGGCATTGCGGTGAGGACCAATGTCAGCTAC
CAGCTCGAAAGGGCCAAGCACAAACCTGTGGCATTGCGGTGAGGACCAATGTCAGCTAC
TGTGGCGTACTGGATGAGGAGTGCCAGTCCAGGGCTCTGGAGTCAACTTTGAGGCCAAA
GATTTTCTGCACATTAAGAGAAGTACAGCAATGACTGGTGGATCGGGCGGCTAGTGAAA
GAGGGCGGGGACATCGCCTTATCCCCAGCCCCAGCGCTGGAGAGCATCCGGCTCAA
CAGGAGCAGAAGGCCAGGAGATCTGGAAACCCTTCCAGCCTGAGTGACATTGGCAACCGA
CGCTCCCTCCGCCATCTAGCCAAGCAGAAGCAAAGCAGGCGGAACATGTTCCCCCA
TATGACGTGGTGCCTCCATGCGGCTGTGGTGTGGTGGGACCATCTCTGAAAGTTAT
GAGGTCACAGACATGATGAGAAGGCTCTTTCGACTTCTCAAACACAGATTTGATGGC
AGGATCTCCATCACCCGAGTACAGCCGACTCTCCCTGGCAAAGCGATCTGTGTCAAC
AATCCGGGCAAGAGGACCATATTGAGCGCTCCTCTGCCCGCTCCAGCATTGCGGAAGTG
CAGAGTGAGATCGAGCGCATATTTGAGCTGGCCAAATCCCTGCAGCTAGTAGTGTGGAC
GCTGACACCATCAACCACCCAGCACAGCTGGCCAAGACCTCGCTGGCCCCCATCATCGTC
TTTGTCAAAGTGTCTCACCAAAGGTAAGTCCAGCGTCTCATTGCTCCCGGGGGAAGTCA
CAGATGAAGCACCTGACCGTACAGATGATGGCATAATGATAAGCTGGTTTCAAGTCCACCG
GAGTCAATTTGATGTGATTCTGGATGAGAACCAGCTGGAGGATGCCTGTGAGCACCTGGC
GAGTACTGGAGGTTTACTGGCGGGCACGCACCCAGCCCCCTGGCCCCGACTTCTG
GGTCTCCAGTCCCATCCCGGACTTCAAGAACCAGCAGCTGCTGGGGGAGCGTGGCGAG
GAGCACTCCCCCTTGGAGCGGACAGCTTGTGCTCTGATGAGGCCAGCGAGAGCTCC
CGCCAAGCCTGGACAGGATCTTACAGCGTAGCTCCCGCCACTGGAGGAGGACTATGCA
GATGCCTACCAGGACCTGTACCAGCCTCACCGCCAACACACCTCGGGGCTGCCTAGTGCT
AACGGGCATGACCCCAAGACCGGCTTCTAGCCAGGACTCAGAGCACAACCACAGTGAC
CGGAAGTGGCAGCGCAACCGGCTTGGCCCAAGGATAGCTACTGACAGCCTCCTGCTGCC
CTACCCTGGCAGGCACAGGCGCAGCTGGCTGGGGGGCCACTCCAGGCAGGGTGGCGTTA
GACTGGCATCAGGCTGGCACTAGGCTCAGCCCCAAAACCCCTGCCAGCCCCAGCTTC
AGGGCTGCCTGTGGTCCCAAGGTTCTGGGAGAAACAGGGGACCCCTCACCTCCTGGGCA
GTGACCCCTACTAGGCTCCCATCCAGGTAAGTACTAGCTGTGTGTTCTGCACCCCTGGCACCT
TCCTCTCCTCCCACAGGAAGCTGCCCACTGGGCAGTGCCCTCAGGCCAGGATCCCTT
TAGCAGGGTCTTCCCACAGACTCAGGGAAGGGATGCCCAATTAAGTGACAAAAGGGT
GGGGTGTGGGCACCATGGCATGAGGAAGAAACAAGGTCCTGAGCAGGCACAAGTCTGA
CAGTCAAGGGACTGCTTTGGCATCCAGGGCCTCCAGTCACTCACTGCCATACATTAGAA
ATGAGACAATCAAAGCCCCCAGGGTGGCACACCCATCCGTTTGTGGGGTGTGGCAGC
CACATCCAAGACTGGAGCAGCAGGCTGGCCACGCTCGGGCCAGAGAGACTCACAGCTGA
AGCTCTTGGAGGGAAGGGCTCTCCTCACCTGCCAGGAAGCTTCTTAACATGTGACAGGA
CCAGGGACCAGGAGCATGGTGAAGCCAAGTGGCAGATGGGAGCCAACCTGGATGGGGTT
TGGGGAAGGAGGGCATGTGTAGCAGAGAACTTAGGGGGCCTCCTTGCCTTTCTCATTCT
TTTGCCCTGCATCCTGTCAATTTCTGTTCTTGTCCCTCATAACATCTTGGAGAACCGGGCT
CCAGACTTTGTTCCCTGACTCATAGCTGCCGCTTGTAGGTTAGGGTTAGATGGGGAGAG
ACAGGGCACAGAGGACCTGTCTCCCGGCTACTTGCCTTATGGCTCTAGTGTGTGACC
TACAGAGCATGCTCCACAAGCCCTGCCTCACCTCACTGTATCACTAATAAACATCATG
CACAGTCAAAAAAAAAAAAAA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_000725 unedited</p> <pre> AAAACGTTTCGNCCTTTTGTAAACGACTCACTATAGGCGGCCGCATAAATTTCGTATAGCAT ACATTATACGAAGTTATGGATCAGGCCAAATCGGCCGAGCTCGAATTCGTTCGAGAGCGGG TGGGGGGAGCGGTGATCTGAGCTCCGAGCAGCTGGTCTTCGCGGCTCGCTCCCTCCTTCG CGCTCTCTCGCTCCCTGCCGCCGCCGAGGGCTGCGGGGCTCGGTGGCATCTCCCGGGC CCGACCCGAGTCTTGGCCCTGCCTCCGGGCCGCTCCCGCCCCGGCGCCGCTCGCTCC CCCGACCCGACTCCCCATGTATGACGACTCTACGTGCCCGGTTTGAAGACCTCGGA GCAGGTTTCAGCCGACTCCTAACCAGCCGCCATCTCTGGACTCAGACCGTCTCCTTGNA GAGACCCGGAGAGTGCCCGCGTGGAGTANAGAGCCAGCTCAACAACAGCTCTGAAAGG CCAAGCCACACCTGTGGCATTTCGCGGTGAAGACCCATGGCAGCTCCCGTGGCCTTCTTGA TGAAGAGTGGCCAGTCAAGGCTTTGAGTCAACTTTGAGCCCAAGGATTCTGCCCTTA AGAGGAGTTCAACCATGACTGTGGGATCGGCCGGCTAGTAAAAAGAGGCGGGGACCATT GCCTTNTTCCCCAAACCCAAAAGCCCTGGGAGACTTCGGCTCTCACCCGAGCCAAAGGC CGGGATCTGGGAAACCTTCCGCTGGATGAACCTTGGAAACGAAGCTCTCCCTCGCCTT TTTTGGCAAGCGAAACCAAGCCGGCGGGACACGTTCCCCCTTGAAGTGGGGCCCTCC ATTCGGCCTGTGGTGTCTCGGGGAACCTTCTGAAGGTTTTAAGGGCCAAACCTGGTCCA AAGGCCTCTTTG </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_000725 unedited</p> <pre> ACCCTATACTTTGNNACCGCGCCGCATNCTANGATCGACAGNCTTGATATCGGTACCGG GCCCCCTCGAAGTTCAGGCCCTTATGGCCGGATCCAGCGCTGGAGAGTTTTTTTTTTTT TTTTTGACTGTGCATGATGTTTATTAGTGATGACAGTGAGGTGAGGCAGGGGCTTGTGGA GCATGCTCTGTAGTACACACTAGAGCCATAAGGCAAGAGTAGCCGGGAGACAGGTCC TCTGTGCCCTGTCTCTCCCATCTAACCTAACCTAACAAAGCGGCAGCTATGAGTCAGGG AACAAAGTCTGGAGCCCGGTTCTCAAAGATGTATGAGGGACAAGAACAGAAATGACAGG ATGCAGGGCAAAGAATGAGAAAGGCAAGGAGGCCCCCTAAGTTCTCTGCTACACATGC CCTCCTTCCCCAAACCCCATCCAGGTTGGCTCCCATCTGCCACTTGGCTTACCATGCT CCTGGTCCCTGGTCTGTACATGTTAAGAAGTCTCTGGCCGAGCGTGGCCAGCCTGCTGCTCCA GTCTTGGATGTGGCTGCCACACCCAGCAAACGGATGGGTGTGCCACCCTGGGGGGGCTT TGATTGTCTCATTCTAATGTATGGCAGTGAGGTGACTGGAGGCCCTGGATGCCAAAGCA GTCCCTTGACTGTGAGGACTTGTGCCTGCTCAGGGACCTTGTTCCTTCTCATGCCTTGG TGCCACCCCCCAACCTTTGGCACTTTTATGGGGGCATCCCCTTCCCTGATTCCGGTGG GGAAGAACCCTGCTAAGGTGATCCTGCCCTGAAGGCCCTTCCACTTGGCGCCTCTCCTG TGTGGGC </pre>
Restriction Sites:	Please inquire
ACCN:	NM_000725
Insert Size:	1455 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:	The ORF of this clone has been fully sequenced and found that the protein associated with this clone matches NM_000725 perfectly.
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_000725.2 , NP_000716.2
RefSeq Size:	2714 bp
RefSeq ORF:	1455 bp
Locus ID:	784
UniProt ID:	P54284
Cytogenetics:	12q13.12
Domains:	Ca_channel_B, GuKc
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 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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). 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>