

Product datasheet for **SC313678**

CACNB4 (AY054985) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CACNB4 (AY054985) Human Untagged Clone
Tag:	Tag Free
Symbol:	CACNB4
Synonyms:	CAB4; CACNLB4; EA5; EIG9; EJM; EJM4; EJM6
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for AY054985, the custom clone sequence may differ by one or more nucleotides ATGTATGACAATTTGTACCTGCATGGAATTGAAAACCTCGGAGGCTGGTTCAGCGGATTCC TACACAAGCAGGCCGTCTGACTCCGATGTCTCTTTGGAAGAGGACCGGAAGCAATTCGA CAGGAGAGAGAACAGCAAGCAGCTATCCAGCTTGAGAGAGCAAAGTCCAAACCTGTAGCA TTTGCCGTGAAGACAAATGTGAGCTACTGCGGCCCTGGACGAGGATGTGCCTGTTCCA AGCACAGCTATCTCTTTGATGCTAAAGACTTTCTACATATTAAGAGAAATATAACAAT GATTGGTGGATAGGAAGGCTGGTAAAAGAGGGCTGTGAAATTGGCTTCATTCCAAGTCCA CTCAGATTGGAGAACATACGGATCCAGCAAGAACAAAAAGAGGACGTTTTCCACGGAGGG AAATCAAGTGGAAATTCTTCTCAAGTCTTGGAGAAATGGTATCTGGGACATTTGAGCA ACTCCACATCAACAGCAAAACAGAAGCAAAAAGTGACGGAGCACATTCCTCCTTACGAT GTTGTACCGTCAATGCGTCCGGTGGTGTAGTGGGGCCGCTCACTGAAAGGTTACGAGGTA ACAGACATGATGCAGAAAGCCCTCTTTGATTCCCTGAAGCACAGGTTTGTATGGGAGGATT TCAATAACGAGAGTGACAGCTGACATTTCTCTTGCTAAGAGGTGAGTCTAAATAATCCC AGCAAGAGAGCAATAATTGAACGTTTGAACACCCGGTCCAGCTTAGCGGAAGTACAAAGT GAAATTGAAAGAATCTTTGAGTTGGCAAGATCTTTGCAACTGGTGTGTTGTTGATGCAGAC ACCATCAATCACCCAGCACAACCTATAAAGACTTCCTTAGCACCAATTATTGTTTCATGTA AAAGTCTCATCTCAAAGGTTTTACAGCGTTGATTAATCTAGAGGAAAAGTACAAAAGT AAACACTGAATGTTCAACTGGTGGCAGCTGATAAACTTGACACAATGCCCCAGAAATG TTTGATGTTATATTGGATGAAAATCAGCTTGAGGATGCATGTGAACATCTAGGGGAGTAC CTGGAGGCGTACTGGCGTGCCACCCACACAACCAAGTAGCACACCCATGACCCCGTGCTG GGAAGGAATTTGGGCTCCACGGCACTCTCACCATATCCACAGCAATTTCTGGGTTACAG AGTCAGCGAATGAGGCACACCAACCACTCCACAGAGAAGTCTCCAATTGAAAGACGAAGT CTAATGACCTCTGATGAAAATTATCACAATGAAAGGGCTCGGAAGAGTAGGAACCGCTTG TCTTCCAGTTCTCAGCATAGCCGAGATCATTACCCTCTTGTGGAAGAAGATTACCCTGAC TCATACCAGGACACTTACAAACCCCATAGGAACCGAGGATCACCTGGGGATATAGCCAT GACTCCCAGCATAGGCTT
Restriction Sites:	Please inquire
ACCN:	AY054985



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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:	<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:	AY054985.1 , AAL14351.1
RefSeq Size:	1882 bp
RefSeq ORF:	1461 bp
Locus ID:	785
Cytogenetics:	2q23.3
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:	This gene encodes a member of the beta subunit family of voltage-dependent calcium channel complex proteins. Calcium channels mediate the influx of calcium ions into the cell upon membrane polarization and consist of a complex of alpha-1, alpha-2/delta, beta, and gamma subunits in a 1:1:1:1 ratio. Various versions of each of these subunits exist, either expressed from similar genes or the result of alternative splicing. The protein encoded by this locus plays an important role in calcium channel function by modulating G protein inhibition, increasing peak calcium current, controlling the alpha-1 subunit membrane targeting and shifting the voltage dependence of activation and inactivation. Certain mutations in this gene have been associated with idiopathic generalized epilepsy (IGE), juvenile myoclonic epilepsy (JME), and episodic ataxia, type 5. [provided by RefSeq, Aug 2016]