

Product datasheet for **SC312487**

CACNG6 (NM_145815) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
 Product Name: CACNG6 (NM_145815) Human Untagged Clone
 Tag: Tag Free
 Symbol: CACNG6
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Fully Sequenced ORF: >SC312487 representing NM_145815.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

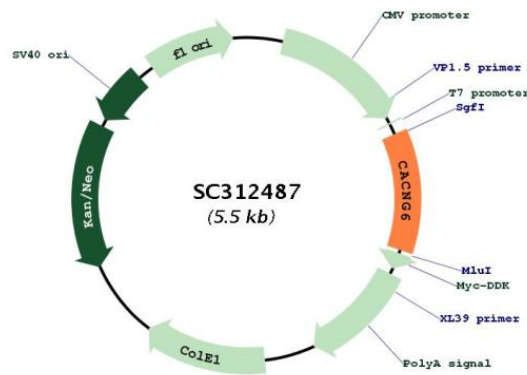
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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGATGTGGTCCAACCTTCTTCTGCAAGAGGAGAACCGGCGGGGGGGCCGGGCGCGGGGGC
CACGGGCAGGGCAGGTCGGGGCTGACGCCCGAGCGCGAGGGGAAGGTGAAGCTGGCGCTGCTGCTGGCC
GCCGTGGGCGCCACGCTGGCGGTGCTGTCCGTGGGCACCGAGTTCTGGGTGGAGCTCAACACCTACAAG
GCCAACGGCAGCGCCGTGTGCGAAGCGGCCACCTGGGGCTGTGGAAGGCGTGCACCAAGCGGCTGTGG
CAGGCGGACGTGCCCGTGGACAGGGACACCTGCGGCCCGCGGAGCTGCCCGGAGAAGCAAACCTGCACC
TATTTTAAATTCTCACACGGGGGAGAATGCACGCATCTTTCAGAGAACCACAAAGAAAGGCCTGCTG
CTCTTGGTGAGCCTGGAGGTGTTCCGGCATTCCGTGAGGGCCCTGCTGCAGAGAGTCAGCCCGAGCCT
CCCCCGGCCACGCCTACCTACGAGTACTCCTGGTCCCTGGGCTGCGGCGTGGGGGCCCGCTGATC
CTGCTGTTGGGGCCGGCTGCTTTCTGCTGCTCACACTGCCTTCTGGCCCTGGGGTCCCTCTGTCCC
AAGCGGGGGCACCGGCCACCTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: Sgfl-MluI



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Plasmid Map:



ACCN: NM_145815

Insert Size: 645 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: 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:

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_145815.1
RefSeq Size:	1748 bp
RefSeq ORF:	645 bp
Locus ID:	59285
UniProt ID:	Q9BXT2
Cytogenetics:	19q13.42
Protein Families:	Druggable Genome, Ion Channels: Other, Transmembrane
Protein Pathways:	Arrhythmogenic right ventricular cardiomyopathy (ARVC), Cardiac muscle contraction, Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM), MAPK signaling pathway
MW:	23.5 kDa
Gene Summary:	<p>Voltage-dependent calcium channels are composed of five subunits. The protein encoded by this gene represents one of these subunits, gamma, and is one of two known gamma subunit proteins. This particular gamma subunit is an integral membrane protein that is thought to stabilize the calcium channel in an inactive (closed) state. This gene is part of a functionally diverse eight-member protein subfamily of the PMP-22/EMP/MP20 family and is located in a cluster with two family members that function as transmembrane AMPA receptor regulatory proteins (TARPs). Alternative splicing results in multiple transcript variants. Variants in this gene have been associated with aspirin-intolerant asthma. [provided by RefSeq, Dec 2010]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon in the central coding region, compared to variant 1, resulting in a shorter isoform (b) with the same N- and C-termini as isoform a. This variant lacks publicly available transcript support but it is supported by RT-PCR data in PubMed ID:11170751. CCDS Note: This CCDS representation lacks publicly available transcript support. The represented exon combination is supported by RT-PCR data in PMID:11170751 and by RNA-Seq data from the ENCODE project.</p>