

## Product datasheet for **SC122189**

### **CACNG1 (NM\_000727) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CACNG1 (NM_000727) Human Untagged Clone
Tag:	Tag Free
Symbol:	CACNG1
Synonyms:	CACNLG
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC122189 sequence for NM_000727 edited (data generated by NextGen Sequencing)

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ATGTCCCAGACCAAAATGCTGAAGGTCCGCGTGACCCTTCTGTCATCCTGGCAGGCATC
GTGCTGGCCATGACAGCCGTGGTAACCGACCACTGGGCTGTGCTGAGCCCCACATGGAG
CACCACAACACTACCTGCGAGGCGGCCACTTCGGCCTCTGGCGATTTGTACCAAGCGC
ATCCCCATGGACGACAGCAAGACCTGCGGGCCCATCACCTGCCGGGAGAAGAAGTGT
TCCTACTTCAGGCATTTAAACCCGCGGAGAGCTCGGAGATCTTCGAATTCACCACTCAG
AAGGAGTACAGCATCTCGGCAGCCGCCATCGCCATCTTCAGCCTTGGCTTCATCATCCTG
GGCAGCCTCTGTGCCTCCTGTCCCTCGGAAGAAGAGGGACTATCTGCTGCGACCCGCG
TCCATGTTCTATGCCTTTCAGGTCTCTGCATCCTCGTCTCGGTGGAGGTCATGCGGCAG
TCGGTGAAGCGCATGATTGACAGTGAGGACACCGTCTGGATCGAGTACTATTACTCCTGG
TCCTTTGCCTGCGCCTGTGCCGCTTCATCCTCCTCTTTCTCGGCGGTCTCGCCCTCCTG
CTGTTCTCCCTGCCTCGAATGCCCGGAACCCATGGGAGTCTGTCATGGATGCTGAGCCC
GAGCACTAA
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Clone variation with respect to NM\_000727.3



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_000727 unedited NNGGTT CAGTTCAA AATTG TAAACGACTCATATAGGCGGCCGCCAGTGTGATGGATATCT GCAGAATTCGCCCTTGACCACCATGTCCCAGACCAAAATGCTGAAGGTCCGCGTGACCCT CTTCTGCATCCTGGCAGGCATCGTGCTGGCCATGACAGCCGTGGTAACCGACCACTGGGC TGTGCTGAGCCCCACATGGAGCACCACAACACTACCTGCGAGGGCGGCCACTTCGGCCT CTGGCGGATTTGTACCAAGCGCATCCCCATGGACGACAGCAAGACCTGCGGGCCATCAC CTGCCCGGGGAGAAGAAGTCTTCTACTTCAGGCATTTTAACCCCGGCGAGAGCTCGGA GATCTTCGAATTCACCACTCAGAAGGAGTACAGCATCTCGGCAGCCGCCATCGCCATCTT CAGCCTTGGCTTCATCATCCTGGGCAGCCTCTGTGCCCTCTGTCCCTCCGGAAGGAGAA GGACTATCTGCTGCGACCCGCGTCCATGGTCTATGCCCTTTGCAGGTCTCTGCATCCTCG TCTCGGTGGAAGTCATGCNNGCAGTCGTGAAGCGCATGATTGACAAGTGAGACACCGTCT GGATCCAGTACTATTACTCCTGGTCTTTGGCTGCGCCTGGTCCGGCTTCATTCTTCTCT TTTCTGGCGGGTCTGCCCTTCTGCTGTTCTTCCCTGCTCGGATGCCCGGAACCCATGGG AGTCTGGCTGGATCCCTAACCCGAACACTAACCTNCTGCCGGCTAGCGACCCCTAAG GCTTCTTTCCCCAGGAACCGGGTCTTGGCCTGNAACCTTCAGGGCGAANTCCAGCACAC TGGCGGCCGTTACTAGTTGATCCGAGCNTCGTACCGATATCAAGCTTGTGCGACTTAGAT T
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_000727
<b>Insert Size:</b>	669 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_000727.2</a> , <a href="#">NP_000718.1</a>
<b>RefSeq Size:</b>	1266 bp
<b>RefSeq ORF:</b>	669 bp
<b>Locus ID:</b>	786
<b>UniProt ID:</b>	<a href="#">Q06432</a>
<b>Cytogenetics:</b>	17q24.2
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Other, Transmembrane

**Protein Pathways:** Arrhythmogenic right ventricular cardiomyopathy (ARVC), Cardiac muscle contraction, Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM), MAPK signaling pathway

**Gene Summary:** 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 part of skeletal muscle 1,4-dihydropyridine-sensitive calcium channels and is an integral membrane protein that plays a role in excitation-contraction coupling. 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).  
[provided by RefSeq, Dec 2010]