

## Product datasheet for **SC116025**

### **CACNG3 (NM\_006539) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CACNG3 (NM_006539) Human Untagged Clone
Tag:	Tag Free
Symbol:	CACNG3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_006539, the custom clone sequence may differ by one or more nucleotides

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ATGAGGATGTGTGACAGAGGTATCCAGATGTTGATCACCAGTGTAGGAGCCTTTGCCGCTTTTAGTTTAA
TGACCATTGCAGTGGGCACGGACTACTGGTTATATTCCAGAGGTGTGTCAGGACTAAATCTACAAGTGA
TAATGAAACCAGCAGGAAGAATGAAGAAGTAAAGACCCATTCCGGGGCTGTGGAGGACCTGCTGCCTAGAA
GGGGCTTTCCGAGGCGTGTGCAAGAAAATCGATCACTTCCCTGAAGATGCTGACTACGAACAGGACACAG
CCGAATATCTCCTGCGAGCTGTGAGGGCCTCCAGTGTCTCCCATCCTCAGTGTACGCTGCTGTTCTT
CGGCGGGCTCTGCGTGGCAGCCAGTGTGAGTCCACCGCAGCAGACACAACGTCATTCTCAGCGGGGCATC
TTTTTTGTCTCTGCAGGGTTAAGCAACATCATTGGCATCATAGTTTATATATCAGCCAACGCCGGAGACC
CCGGGCAGCGTGACTCCAAAAAAGTTACTCCTATGGTTGGTCCCTTTTATTTCCGAGCCTTCTCTTTCAT
CATCGCAGAAATTGTAGGAGTGGTTGCCGTGCACATCTATATTGAAAAACATCAGCAGTTACGAGCCAAA
TCCCACTCGGAGTTCCTGAAGAAATCTACTTTTGCCCGCCTCCCACCCTACAGGTATCGATTCCGGAGGC
GGTCAAGTTCTCGCTCCACCGAGCCAGATCCCGAGACCTGTCCCCATCAGCAAAGGCTTCCACACCAT
CCCTTCCACTGACATCTCGATGTTACCCTCTCCCGGACCCCTCAAAGATCACCATGGGGACCCCTCCTC
AACTCCGACCGGGACCACGCTTTTCTACAGTTCACAATTCCACACCCAAAGAGTTCAAAGAGTCACTGC
ATAATAATCCGGCCAACAGGCGCACCACGCCCGTCTGA
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_006539 unedited          GAAACCGTCGGATTTGTAACCGATTACTATAGGCGGCCGCGCAATTCGCACGAGGCTCG          TCTTTACCACGCTCCTGAGGAATGAAAGGAACCCAGGGACCTCAGAAGGCAGCAGTGAT          GCGGACCAACCCCGGAGCCTGCACCCCTCCGAGGGCCATAGGCGACCCAGGGAAGTGG          AGAGAGCTCCAGAAAGGAAATCCCAGCTTCCCAATGTCCCTGTGGATGCTGACAAAAGG          AGACCTGAATTTTTGGAAGAGCCTGTACTAGGTTACCCGGCTGCAGAGTGATTTTTCCCT          CCGGCACTGACTCTCCCTCCAACCCAGCCGTCAGAGTACCATGAAGAATTATGAG          GATGTGTGACAGAGGTATCCAGATGTTGATCACCCTGTAGGAGCCTTTGCCGCTTTAG          TTTAATGACCATTGCAGTGGGCACGGACTACTGTTATATTCCAGAGGTGTGTGCAGGAC          TAAATCTACAAGTGATAATGAAACCAGCAGGAAGAATGAAGAAGTAATGACCCATTCCGG          GCTGTGGAGGACCTGCTGCCTAGAAGGGGCTTTCCGAGGCGTGTGCAAGAAAATCGATCA          CTTCCCTGAAGATGCTGACTACGAACAGGACACAGCCGAATATCTCTGCGAGCTGTGAG          GGCCTCCAGTGTCTCCCATCCTCAGTGTACGCTGCTGTTCTTCGGCGGGCTCTGCGT          GGCAGCCAGTGAGTTCCACCGCAGCAGACACAACGTCATTCTCAGCGGGGCATCTTTT          TGCTCTGCAGGGTTAAGCAACATCATTGGCATCATAGTTTATATATCAGCCAACGCCGG          AGACCCCGGGCAGCGTACTCAAAAAAAGTACTCCTAT</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_006539 unedited          TCCAGGCCCGAAAAGCACTGGGGAGGGGTACAGGGATGCCACCCGGGATCTGTTCCAGG          AAACAGCTATGACCGCGGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTT          TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAACAAGGCAAAACCTTTAAAAACAG          GAGGGCTTATTACCTAACTGCTTCGGGGCTCTGACATTTTTGATTCGGGGCATGTTTT          TCTAACACAAAAAGGGGAATGCCTCCCTCAGGGCCACCTGGGCGGGGTTGGTTTCCTGA          GGATTTGGGGGGTAAACAATGGGGACAATGACCCCTGATGGAATTCGGAAT          CCCCCCTGGCCACCCTGGGACTTTTAAAAAGCCCTTCCAAGGAGGAAAAATGGG          GAGGCCCTTCCCGTAAAAAGGAAAAAGGAAAAACATTTGGCCAGATCCCAGAAAAGAG          GAATGACCTTTGGGATTGGCTTAAAAAGTTAAAAAGGATGGAGGGGTTAGGACTTGGAG          GGGGAGGGGAAAAATGGGGAAAGGGCCCGACCCATTTGGTTTATTCTTTGAAAAAGT          AATACCCTCACAAGGACCCTGCCTTGCAACCTCAAAAACATTTTTGTACACTTCCCCAA          GGCTGTGCCTGGCCGGGGCAAAGTCAAAAAGGCAATTCAAACGGGCCCTGGGGCCCC          TGTTGGCCCGGATATTAAGCAGGGACTCTTTGACTCTTTGGGGGGGAAATTGTGGAA          CTGTA AAAAACCTGGCCCGCGCCGAATTAAGAAGGGCCCCCATGGTATCTTTTAGA          GGGGGCCCCGGAGAAAGGTGAAACCTTAAATTCGCGGAAAGGGCGGCGGGGAAACCT          CTGGGGAGGGGGACCACCTTTGGAACCTTGCCTGGGAAAAACACACTTACCCCTCCG          AATCATCACTTGGGGTGGGGACGCGCCAAAACATTTTTTACACCCCGCGGAATGCTT          CCCACTGTTCTA</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_006539
<b>Insert Size:</b>	1830 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_006539.2</a> , <a href="#">NP_006530.1</a>
<b>RefSeq Size:</b>	2701 bp
<b>RefSeq ORF:</b>	948 bp
<b>Locus ID:</b>	10368
<b>UniProt ID:</b>	<a href="#">O60359</a>
<b>Cytogenetics:</b>	16p12.1
<b>Domains:</b>	PMP22_Claudin
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Other, Transmembrane
<b>Protein Pathways:</b>	Arrhythmogenic right ventricular cardiomyopathy (ARVC), Cardiac muscle contraction, Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM), MAPK signaling pathway
<b>Gene Summary:</b>	<p>The protein encoded by this gene is a type I transmembrane AMPA receptor regulatory protein (TARP). TARPs regulate both trafficking and channel gating of the AMPA receptors. This gene is part of a functionally diverse eight-member protein subfamily of the PMP-22/EMP/MP20 family. This gene is a susceptibility locus for childhood absence epilepsy. [provided by RefSeq, Dec 2010]</p>