

Product datasheet for **SC305358**

CACNG8 (NM_031895) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: CACNG8 (NM_031895) Human Untagged Clone
Tag: Tag Free
Symbol: CACNG8
Mammalian Cell Selection: None
Vector: pCMV6-XL5
E. coli Selection: Ampicillin (100 ug/mL)
Fully Sequenced ORF: >OriGene sequence for NM_031895 edited

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GTGGTCAAACCTGGAGTCGCTGAAGCGCTGGAACGAAGAGCGGGGCTCTGGTGCAGAGAAG
GGGGTGCAGGTGCTGCTGACGACGGTGGGCGCCTTCGCCGCTTCGGCCTCATGACCATC
GCCATCAGCACTGACTACTGGCTCTACACGCGCGCCCTCATCTGCAACACCACCAACCTC
ACGGCCGGCGGGGACGACGGGACCCCCACCGCGGGGGCGGGCGGCCTCGGAGAAGAAG
GACCCCGGCGGCCTCACGCACTCGGGCCTCTGGAGGATCTGCTGCCTGGAAGGGTTGAAA
AGAGGGCTCTGCGTGAAGATCAATCATTTCGGGAGGACACGGACTACGACCACGACAGC
GCGGAGTATCTACTCCGAGTTGTCCGGGCTCCAGCATCTTCCCATCCTTAGCGCCATC
CTGCTGCTGCTCGGGGTGTGTGCGTGGCGGCCTCCCGCTCTACAAGTCCAAGAGGAAC
ATCATTCTGGGCGCAGGATCCTGTTCTGTGGCAGCAGGCCTGAGCAACATCATCGGCGTG
ATCGTGTACATCTCCGCCAACGCGGGCGAGCCGGGCCCGAAGCGGGACGAGGAGAAGAAA
AACCACTACTCGTACGGCTGGTCTTCTACTTCGGCGGGCTGTGTTTCATCCTGGCCGAG
GTGATAGGCGTGTGGCCGTCAACATCTACATCGAGCGCAGCCGCGAGGCGCACTGCCAG
TCTCGCTCGGACCTGCTCAAGGCCGGCGGGGGCGGGCGGCAGTGGCGGGAGCGGCCCC
TCGGCCATCCTCCGTCTGCCAGTTACCGCTTCCGCTACCGCGCGCTCCCGCTCTAGC
TCCCGCTCCAGCGAGCCGTGCGCGTGGCGGACGCGTCTCCCGCGGCCCGGGGGCCCCG
GGCTTTGCCTCCACGGACATCTCCATGTACACGCTCAGCCGCGACCCCTCAAGGGCAGC
GTGGCCGGGGGCTGGCGGGGGCGGGCGGGCGGGCGGGCGGGCGGGTGGGGCGTTTCGGC
GGCGCGGGGGGGCGCCGGGGGGCGGGCGGGAGGCGGGCGGGGGCGGGTGGCGAGCGG
GACCGCGGGGGCGTCCGGCTTCTCACGCTGCAACAACGCTTCCCAAGGAGGCGGGC
GGCGGCGTACGGTACCGGTACCGGGCCGCCCGCCCCGCGCCCGCCACCCGCG
CCCTCTGCGCCCGCCCCGGGACCTGGCCAAGGAGGCGCCGCTCCAACACCAACACG
CTAACAGGAAAACCACGCTGTGTAG
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_031895 unedited
 GGTGACGCTTTGTATACGACTCCTATAGGGCGGCCGGAATTCGTGGTCAAACCTGGAGTC
 GCTGAAGCGCTGGAACGAAGAGCGGGCCCTCTGGTGCGAGAAGGGGGTGCAGGTGCTGCT
 GACGACGGTGGGCGCCTTCGCCGCTTCGGCCTCATGACCATCGCCATCAGCACTGACTA
 CTGGCTTACACGCGCGCCCTCATCTGCAACACCACCAACCTCACGGCCGGCGGCGACGA
 CGGGACCCCCACCGCGGGGCGGGCGCCCTCGGAGAAGAAGGACCCCCGGCGCCCTCAC
 GCACTCGGGCCTCTGGAGGATCTGCTGCCTGGAAGGGTTGAAAAGAGGCGTCTGCGTGAA
 GATCAATCATTTCCCGGAGGACACGGACTACGACCACGACAGCGCGGAGTATCTACTCCG
 AGTTGTCCGGCCCTCCAGCATCTTCCCCATCCTTAGCGCCATCCTGCTGCTGCTCGGGG
 TGTGTGCGTGGCGCCCTCCCGCTTACAAGTCCAAGAGGAACATCATTCTGGGCGCAGG
 GATCCTGTTCTGGCAGCAGGCCTGAGCAACATCATCGGCGTGATCGGTACATCTCCGC
 CAACGCGGGGAGCCGGGCCGAAGCGGGACGAGGAGAAGAAAAACCACTACTCGTACGG
 CTGGTCTTACTTCGGCGGGCTGTCGTTTATCTGCGCCGAGGTGATAGGCGTGTGGC
 CGTCAACATCTACATCGAGCGCAGCCGCGAGGCGCACTGCCAGTCTCGCTCGGACCTGCT
 CAAGCCCGGGCGGCGCGGGCGGAGTGCGGGAGCGGCCCTCGGCCATCCTCCGTCTG
 CCCAGTTACCGGCTTTCGCTACCGCCCGCCGCTCCCGCTTCTAGTCCCGGCTCCAG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_031895 unedited
 GGCGATGCACTTCAGGGCCGGAGAGCACCTAGGGTAGTGGGTACAGGGATGCCACCCGG
 GATCTGTTTACGAAACAGCTATGACCGCGGCCGAATCTAGACTACACAGGCGTGGTTTT
 CCTGTTGAGCGTGTGGTGGTGGAGGCGGGCGCCCTCCTTGGCCAGGGTCCCGGGGGCGGG
 CGCAGAGGGCGCGGGTGGCGCGGGCGGGCGGGCGGGCGGGCGGGCGGGCGGGCGGGCGGG
 GACGCCCGCCCGCCTCCTTGGGAAGCGTTGTGACGCGTGAAGAAAGCCGACGCCCC
 CCCGCGTCCCGCTCGGCACCCGCCCCCGCCGCTCCGCCCGCCCCCGGGCGCCCC
 GGCCGCGCCGCCAACGCCCCACGGCGCGCCGCCGCCGCCGCCGCCGCCGCCGCCGCCGCC
 CGCGGCCACGCTGCCCTTGGAGGGTTCGCGGCTGAGCGTGTACATGGAGATGTCCGTGGA
 GGCAAAGCCCGGGCCCCGGGGCCCGGGGAGACGCGTCCCGCGACGGCGACGGCTCGCT
 GGAGCGGGAGCTAGAGCGGGAGCGGCGCGGTAGCGGAAGCGGTAAGTGGGCAGACGGAG
 GATGGCCGAGGGCGCTCCCGCCACTGCCGCCCGCGCCCCCGCCGCTTGGCAGGTC
 CGAGCGAGACTGGCAGTGCCTCGCGGCTGCGCTCGATGTAGATGTTGACGGCCAGCAC
 GCCTATCACCTCGCCAGGATGAACGACAGCCCGCGAAGTAGAAAGGACCAGCCGTACG
 AGTAGTGGTTTTCTTCTCCTCGTCCCGCTTCGGGCCGGCTCGCCCGGTTGGCGGAGA
 TGTACACGATCACGCCGATGATGTTGCTCAGCCTGCTGCCACGAACAGGATCCTGCGCCC
 AGATGATGTTCTTGGACTTGTAGAACGCGGGGAGGCGCAAGCACAACAACCCCGGAG
 CCAGCAGCAG

Restriction Sites:

Please inquire

ACCN:

NM_031895

Insert Size:

1300 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.
	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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_031895.4 , NP_114101.4
RefSeq Size:	1417 bp
RefSeq ORF:	1278 bp
Locus ID:	59283
UniProt ID:	Q8WXS5
Cytogenetics:	19q13.42
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Arrhythmogenic right ventricular cardiomyopathy (ARVC), Cardiac muscle contraction, Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM), MAPK signaling pathway
Gene Summary:	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 and is located in a cluster with two family members, a type II TARP and a calcium channel gamma subunit. The mRNA for this gene is believed to initiate translation from a non-AUG (CUG) start codon. [provided by RefSeq, Dec 2010]