

Product datasheet for **RG214485**

CACNG8 (NM_031895) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CACNG8 (NM_031895) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CACNG8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214485 representing NM_031895 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCATCGCCATCAGCACTGACTACTGGCTCTACACGCGGCCCTCATCTGCAACACCACCAACCTCA
CGGCCGGCGGACGACGGGACCCACCACGGGGCGGCGGCCCTCGGAGAAGAAGGACCCCGCGG
CCTCACGACTCGGGCCTCTGGAGGATCTGCTGCCTGGAAGGGTTGAAAAGAGGCGTCTGCGTGAAGATC
AATCATTTCGGGAGGACAGGACTACGACCACGACAGCGGGAGTATCTACTCCGAGTTGTCCGGCCT
CCAGCATCTCCCATCCTTAGCGCCATCCTGCTGCTCGGGGTGTGTGCGTGGCGGCCCTCCCGCT
CTACAAGTCCAAGAGGAACATCATTCTGGGCGCAGGGATCCTGTTTCGTGGCAGCAGGCTGAGCAACATC
ATCGGCGTGATCGTGTACATCTCCGCCAACCGGGCGAGCCGGCCGAAGCGGGACGAGGAGAAGAAAA
ACCACTACTCGTACGGCTGGTCTTCTACTTCGGCGGGCTGTCGTTTCATCCTGGCCGAGGTGATAGGCGT
GCTGGCCGTCAACATCTACATCGAGCGCAGCCGCGAGGCGCACTGCCAGTCTCGCTCGGACCTGCTCAAG
GCCGGCGGGGCGGGCGGCGAGTGGCGGGAGCGGCCCTCGGCCATCCTCCGTCTGCCAGTTACCGCT
TCCGCTACCGCCCGCTCCCGCTAGCTCCCGCTCCAGCGAGCCGTCGCCGTCGGGGACGCGTCTCC
CGGCGGCCCGGGGCGGGGCTTGCCTCCACGGACATCTCCATGTACACGCTCAGCCGCGACCCCTCC
AAGGGCAGCGTGGCCGCGGGCTGGCGGGGCGGCGGCGGCGGCGGCCGTGGGGCGTTCCGGCG
GCGCGGCCGGGGCGCCGGGGCGGCGGCGGAGGCGGCGGCGGGCGGGTCCGAGCGGGACCGCGGGG
GGCGTCCGGCTTCTCACGCTGCACAACGCTTCCCAAGGAGGCGGGCGGCGGCGTACGGTACGGT
ACCGGGCCCGCCCGCCCGCGCCCGCCACCCGCGCCCTCTGCGCCCGCCCGGGACCTGGCCA
AGGAGGCCCGCCCTCCAACACCAACACGCTCAACAGGAAAACACGCTGTG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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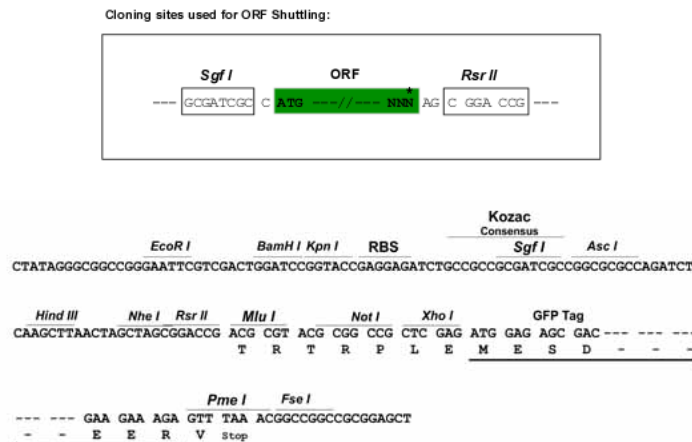
Protein Sequence: >RG214485 representing NM_031895
 Red=Cloning site Green=Tags(s)

MTIAISTDYWLYTRALICNTTNLTAGDDGTPHRGGGGASEKKDPGGLTHSGLWRICCLEGLKRGVCVKI
 NHFPEDTDYDHDSA EYLLRVVRASSIFPILSAILLLLGGVCVAASRVYKSKRNIILGAGILFVAAGLSNI
 IGVIVYISANAGEPGPKRDEEKNHYSYGWFSFYFGGLSFLAEVIGVLAVNIYIERSREAHQSRSDLLK
 AGGGAGGSGGSGPSAILRLPSYRFYRRRSRSSSRSESPSRDASPGGPGGPGFASTDISMYTLSRDPS
 KGSVAAGLAGAGGGGGAVGAFGGAAGGAGGGGGGGGAGAERDRGGASGFLTLHNAFPKEAGGGVTVTY
 TGPPAPPAPAPPASAPAPGTLAKEAAAANTNTLNRKTTTPV

SGPTRRRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_031895

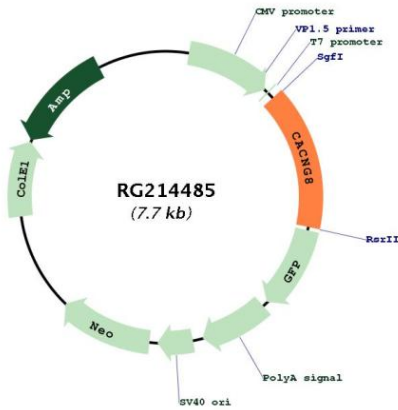
ORF Size: 1275 bp

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:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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]

Product images:



Circular map for RG214485