

Product datasheet for **RG207373**

CACNG3 (NM_006539) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CACNG3 (NM_006539) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CACNG3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207373 representing NM_006539 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGGATGTGTGACAGAGGTATCCAGATGTTGATCACCCTGTAGGAGCCTTTGCCGCTTTTAGTTTAA
TGACCATTGCAGTGGGCACGGACTACTGGTTATATCCAGAGGTGTGTCAGGACTAAATCTACAAGTGA
TAATGAAACCAGCAGGAAGAATGAAGAAGTAATGACCCATTCGGGGCTGTGGAGGACCTGCTGCCTAGAA
GGGGCTTTCCGAGGCGTGTGCAAGAAAAATCGATCACTTCCCTGAAGATGCTGACTACGAACAGGACACAG
CCGAATATCTCCTGCGAGCTGTGAGGGCCTCCAGTGTCTTCCCCATCCTCAGTGTACGCTGCTGTTCTT
CGGCGGGCTCTGCGTGGCAGCCAGTGAGTTCCACCGCAGCAGACACAACGTCATTCTCAGCGCGGGCATC
TTTTTTGTCTCTGCAGGGTTAAGCAACATCATTGGCATCATAGTTTATATATCAGCCAACGCCGGAGACC
CCGGGCAGCGTACTCCAAAAAAGTTACTCCTATGGTTGGTCTTTTATTTCCGAGCCTTCTCTTTTCAT
CATCGCAGAAATTGTAGGAGTGGTTGCCGTGCACATCTATTTGAAAAACATCAGCAGTTACGAGCCAAA
TCCCCTCGGAGTTCCTGAAGAAATCTACTTTGCCCGCCTCCCACCCTACAGGTATCGATTCCGGAGGC
GGTCAAGTTCGCTCCACCGAGCCAGATCCCGAGACCTGTCCCCATCAGCAAAGGCTTCCACACCAT
CCCTTCCACTGACATCTCGATGTTACCCTCTCCCGGACCCCTCAAAGATCACCATGGGACCCCTCCTC
AACTCCGACCGGACCACGCTTTTCTACAGTTCACAATCCACACCCAAAGAGTTCAAAGAGTCACTGTC
ATAATAATCCGGCCAACAGGCGCACCCACGCCCGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG207373 representing NM_006539
Red=Cloning site Green=Tags(s)

MRMCDRGIQMLITTVGAFAAFSLMTIAVGTDYWLYSRGVCRKSTSDNETSRKNEEVMTHSGLWRTCCLE
 GAFRGVCKKIDHFPEDADYEQDTAEYLLRAVRASSVFPILSVTLFFGGLCVAASEFHRSRHNVILSAGI
 FFVSAGLSNIIGIIVYISANAGDPGQRDSKKSYSYGWSFYFGAFSFIIEIVGVAVHIYIEKHQQLRAK
 SHSEFLKKSTFARLPPYRYRFRRRSSSRSTEPRSRDLSPIKGFHTIPSTDISMFTLSRDPSKITMGTL
 NSDRDHAFLLQFHNSTPKFEKESLHNNPANRRTPV

TRTRPLE - GFP Tag - V

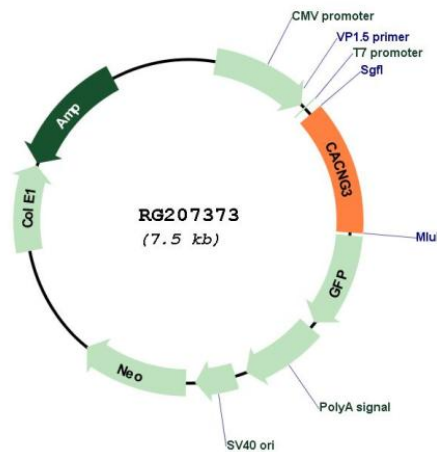
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_006539

ORF Size: 945 bp

OTI Disclaimer:	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_006539.4
RefSeq Size:	2701 bp
RefSeq ORF:	948 bp
Locus ID:	10368
UniProt ID:	O60359
Cytogenetics:	16p12.1
Domains:	PMP22_Claudin
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
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. This gene is a susceptibility locus for childhood absence epilepsy. [provided by RefSeq, Dec 2010]