

Product datasheet for RG205154

CACNG4 (NM_014405) Human Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	CACNG4 (NM_014405) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CACNG4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	<pre>>RG205154 representing NM_014405 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGTGCGATGCGACCGCGGGCTGCAGATGCTGCTGACCACGGCCGGAGCCTTCGCCGCCTTCTCGCTCA TGGCCATCGCCATCGGCACCGACTACTGGCTGTACTCCAGCGCGCACATCTGCAACGGCACCAACCTGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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	CACNG4 (NM_014405) Human Tagged ORF Clone – RG205154
Protein Sequence:	e: >RG205154 representing NM_014405 Red=Cloning site Green=Tags(s)
	MVRCDRGLQMLLTTAGAFAAFSLMAIAIGTDYWLYSSAHICNGTNLTMDDGPPPRRARGDLTHSGLWRVC CIEGIYKGHCFRINHFPEDNDYDHDSSEYLLRIVRASSVFPILSTILLLLGGLCIGAGRIYSRKNNIVLS AGILFVAAGLSNIIGIIVYISSNTGDPSDKRDEDKKNHYNYGWSFYFGALSFIVAETVGVLAVNIYIEKN KELRFKTKREFLKASSSSPYARMPSYRYRRRRSRSSSRSTEASPSRDVSPMGLKITGAIPMGELSMYTLS REPLKVTTAASYSPDQEASFLQVHDFFQQDLKEGFHVSMLNRRTTPV
	TRTRPLE - GFP Tag - V
Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	Cloning sites used for ORF Shuttling:
	Kozac Consensus EcoR I BamH I Kpn I RBS Sgf I Asc I CTATAGGGCGGCGCGGGAATTCGTCGACTGGATCGGGCGCGGCGACGGCGCGCGGCGCGCGGGGGCGCGCGGGGGG
ACCN:	NM 014405

ACCN:	NM_014405
ORF Size:	981 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 <u>custsupport@origene.com</u> 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. <u>More info</u>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

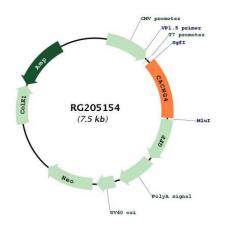
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CACNG4 (NM_014405) Human Tagged ORF Clone – RG205154		
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).	
Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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:	<u>NM 014405.2, NP 055220.1</u>	
RefSeq Size:	3397 bp	
RefSeq ORF:	984 bp	
Locus ID:	27092	
UniProt ID:	<u>Q9UBN1</u>	
Cytogenetics:	17q24.2	
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 and is located in a cluster with two family members, a type II TARP and a calcium channel gamma subunit. [provided by RefSeq, Dec 2010]	

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Product images:



Circular map for RG205154

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