CACNG3 cDNA Clone – Calcium Channel, Voltage-Dependent, Gamma Subunit 3 (Human)

PRODUCT OVERVIEW

Product Name	CACNG3, cDNA Clone
Full Product Name	CACNG3 cDNA Clone
Product Gene Name	CACNG3 cdna clone
Sequence	atgaggatgt gtgacagagg tatccagatg ttgatcacca ctgtaggagc ctttgccgct tttagtttaa tgaccattgc agtgggcacg gactactggt tatattccag aggtgtgtgc aggactaaat ctacaagtga taatgaaacc agcaggaaga atgaagaagt aatgacccat tcggggctgt ggaggacctg ctgcctagaa ggggctttcc gaggcgtgtg caagaaaatc gatcacttcc ctgaagatgc tgactacgaa caggacacag ccgaatatct cctgcgagct gtgagggcct ccagtgtctt ccccatcctc agtgtcacgc tgctgttctt cggcgggctc tgcgtggcag ccagtgagtt ccaccgcagc agacacaacg tcattctcag cgcgggcatc ttttttgtct ctgcagggtt aagcaacatc attggcatca tagtttatat atcagccaac gccggagacc ccgggcagcg tgactccaaa aaaagttact cctatggttg gtccttttat ttcggagcct tctctttcat catcgcagaa attgtaggag tggttgccgt gcacatctat attgaaaaac atcagcagtt acgagccaaa tcccactcgg agttcctgaa gaaatctact tttgcccgcc tcccacccta caggtatcga ttccggaggc ggtcaagttc tcgctccacc gagcccagat cccgagacct gtcccccatc agcaaaggct tccacaccat cccttccact gacatctcga tgttcaccct ctcccgggac ccctcaaaga tcaccatggg gaccctcctc aactccgacc gggaccacgc ttttctacag ttccacaatt ccacacccaa agagttcaaa gagtcactgc ataataatcc ggccaacagg cgcaccacgc ccgtctga
Molecular Weight	35,549 Da
OMIM	606403
Vector	pENTR223.1 or pUC
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for CACNG3 cdna clone	MBS1270761 is a cDNA clone targeting CACNG3.
Other Notes	Small volumes of CACNG3 cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CACNG3. It may not necessarily be applicable to this product.

NCBI GI #	25058363
NCBI GeneID	10368
NCBI Accession #	BC040005
UniProt Related Accession #	O60359
NCBI Official Full Name	Homo sapiens calcium channel, voltage-dependent, gamma subunit 3, mRNA
NCBI Official Synonym Full Names	calcium voltage-gated channel auxiliary subunit gamma 3
NCBI Official Symbol	CACNG3
UniProt Protein Name	Voltage-dependent calcium channel gamma-3 subunit
UniProt Synonym Protein Names	Neuronal voltage-gated calcium channel gamma-3 subunit; Transmembrane AMPAR regulatory protein gamma-3; TARP gamma-3
Protein Family	Voltage-dependent calcium channel

UniProt Gene Name	CACNG3
UniProt Synonym Gene Names	TARP gamma-3
UniProt Entry Name	CCG3_HUMAN
NCBI Protein Information	voltage-dependent calcium channel gamma-3 subunit
NCBI Summary for CACNG3	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]
UniProt Comments for CACNG3	CACNG3: Regulates the trafficking and gating properties of AMPA- selective glutamate receptors (AMPARs). Promotes their targeting to the cell membrane and synapses and modulates their gating properties by slowing their rates of activation, deactivation and desensitization. Does not show subunit-specific AMPA receptor regulation and regulates all AMPAR subunits. Thought to stabilize the calcium channel in an inactivated (closed) state. Belongs to the PMP-22/EMP/MP20 family. CACNG subfamily. Protein type: Channel, calcium; Membrane protein, multi-pass; Membrane protein, integral Chromosomal Location of Human Ortholog: 16p12.1 Cellular Component: plasma membrane Molecular Function: channel regulator activity; voltage-gated calcium channel activity Biological Process: transmission of nerve impulse
Research Articles on CACNG3	**1.** These results suggest that CACNG3 is the best candidate for an age-related macular degeneration risk gene within the 16p12 linkage peak.
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