

Product datasheet for RC235368

CACNA1G (NM_001256333) Human Tagged ORF Clone

Product data:

| | |
|--------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | CACNA1G (NM_001256333) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | CACNA1G |
| Synonyms: | Ca(V)T.1; Cav3.1; NBR13; SCA42; SCA42ND |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |
| ORF Nucleotide Sequence: | >RC235368 representing NM_001256333 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACGAGGAGGAGGATGGAGCGGGCGCCGAGGAGTCGGGACAGCCCCGGAGCTTCATGCGGCTCAACG
ACCTGTCCGGGGCCGGGGCCGGCCGGGGTCAGCAGAAAAGGACCCGGGACGCGGGACTCCGA
GGCGGAGGGGCTGCCGTACCCGGCGCTGGCCCCGGTGGTTTTCTTCTACTTGAGCCAGGACAGCCGCCG
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Protein Sequence: >RC235368 representing NM_001256333
 Red=Cloning site Green=Tags(s)

MDEEDGAGAEESGQPRFSMRLNDLSGAGGRPGPGSAEKDPGSADSEAEGLPYPALAPVVFVYLSQDSRP
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 QHSDLRDPHSRRQRS LGPDAEPSSVLA FWRLICDTFRKIVDSKYFGRGIMIAILVNTLSMGIEYHEQPEE
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 LWPVGVEGPDSPD SPKPGALHPAAHARSASHF SLEHPTMQPHPTELPGPDLLTVRKS GVSRT HSLPNDSYM
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 PLAQRPLRRQA AIRTDSL DVQGLGSRELLAE EPPSPRDLKCKYSVEAQSCRRRPTSWLDEQRHSIAV
 SCLDSGSQPHLGTDP SNLGGQPLGGPGSRPKKLSPPSITIDPPESQGPRTPPSPGICLRRRAPSSDSKD
 PLASGPPDSMAASPPKKDVL SLSGLSSDPADLDP

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

| | |
|-------------------------------|---|
| 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_001256333.2 |
| RefSeq Size: | 7748 bp |
| RefSeq ORF: | 6618 bp |
| Locus ID: | 8913 |
| UniProt ID: | O43497 |
| Cytogenetics: | 17q21.33 |
| Protein Families: | Druggable Genome, Ion Channels: Calcium, Transmembrane |
| Protein Pathways: | Calcium signaling pathway, MAPK signaling pathway, Type II diabetes mellitus |
| MW: | 244.7 kDa |
| Gene Summary: | Voltage-sensitive calcium channels mediate the entry of calcium ions into excitable cells, and are also involved in a variety of calcium-dependent processes, including muscle contraction, hormone or neurotransmitter release, gene expression, cell motility, cell division, and cell death. This gene encodes a T-type, low-voltage activated calcium channel. The T-type channels generate currents that are both transient, owing to fast inactivation, and tiny, owing to small conductance. T-type channels are thought to be involved in pacemaker activity, low-threshold calcium spikes, neuronal oscillations and resonance, and rebound burst firing. Many alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Sep 2011] |