

Product datasheet for RC222266L3

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OriGene Technologies, Inc.

CACNG2 (NM_006078) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: CACNG2 (NM 006078) Human Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: CACNG2
Synonyms: MRD10
Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC222266).

Sequence:

Sgfl-Mlul

Restriction Sites: Cloning Scheme:





st The last codon before the Stop codon of the ORF.

ACCN: NM_006078

ORF Size: 969 bp





CACNG2 (NM_006078) Human Tagged Lenti ORF Clone - RC222266L3

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: 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.

22q12.3

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: <u>NM 006078.2</u>

 RefSeq Size:
 4523 bp

 RefSeq ORF:
 972 bp

 Locus ID:
 10369

 UniProt ID:
 Q9Y698

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

MW: 36 kDa

Cytogenetics:

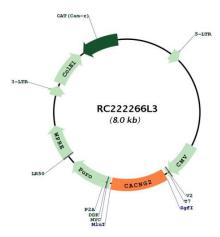
Gene Summary: The protein encoded by this gene is a type I transmembrane AMPA receptor regulatory

protein (TARP). TARPs regulate both trafficking and channel gating of the AMPA receptors. The AMPA subtype of ionotropic glutamate receptors are ligand gated ion channels that are typically activated by glutamate released from presynaptic neuron terminals and mediate fast neurotransmission in excitatory synapses. TARPs thus play an important role in synaptic plasticity, learning and memory. Mutations in this gene cause an autosomal dominant form

of cognitive disability. [provided by RefSeq, Jul 2017]



Product images:



Circular map for RC222266L3