

Product datasheet for **RG212772**

CACNA1H (NM_021098) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CACNA1H (NM_021098) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: CACNA1H
Synonyms: CACNA1HB; Cav3.2; ECA6; EIG6; HALD4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG212772 representing NM_021098
Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence: >RG212772 representing NM_021098
 Red=Cloning site Green=Tags(s)

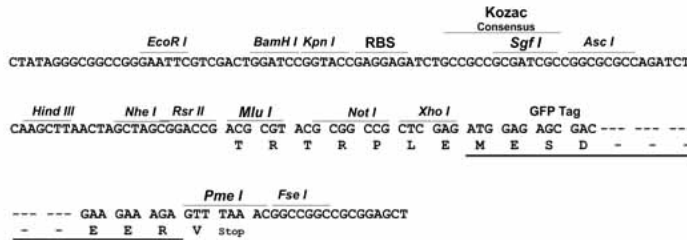
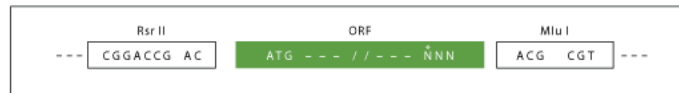
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TRTRPLE - GFP Tag - V

Restriction Sites: RsrII-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:


ACCN: NM_021098

ORF Size: 7059 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 custsupport@origene.com 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. [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).

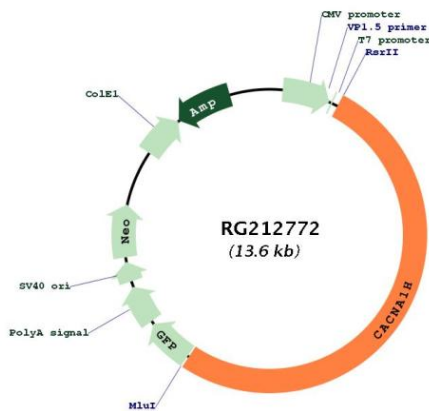
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
 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_021098.3](#)

RefSeq Size: 8097 bp
RefSeq ORF: 7062 bp
Locus ID: 8912
UniProt ID: [O95180](#)
Cytogenetics: 16p13.3
Protein Families: Druggable Genome, Ion Channels: Calcium, Transmembrane
Protein Pathways: Calcium signaling pathway, MAPK signaling pathway

Gene Summary: This gene encodes a T-type member of the alpha-1 subunit family, a protein in the voltage-dependent calcium channel complex. Calcium channels mediate the influx of calcium ions into the cell upon membrane polarization and consist of a complex of alpha-1, alpha-2/delta, beta, and gamma subunits in a 1:1:1:1 ratio. The alpha-1 subunit has 24 transmembrane segments and forms the pore through which ions pass into the cell. There are multiple isoforms of each of the proteins in the complex, either encoded by different genes or the result of alternative splicing of transcripts. Alternate transcriptional splice variants, encoding different isoforms, have been characterized for the gene described here. Studies suggest certain mutations in this gene lead to childhood absence epilepsy (CAE). [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG212772