

Product datasheet for RR211239

Cacna1g (NM_031601) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cacna1g (NM_031601) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Cacna1g
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR211239 representing NM_031601
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGATCGCC

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ACCTGTCCGGGGCCGGGGCCGGCAGGGGCCGGGTTCGACGAAAAGGACCCGGGACGCGGGACTCCGA
GGCGGAGGGCTGCCGTACCCGGCGTAGCCCCGGTGGTTTTCTTCTACTTGAGCCAGGACAGCCGCCCG
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TGCCACTTGAGCCAGTCCGTTGCCAGGCACCCCTCCCAGATGCCCATCGGAGGCATCTGGTAGGACTG
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Protein Sequence: >RR211239 representing NM_031601
 Red=Cloning site Green=Tags(s)

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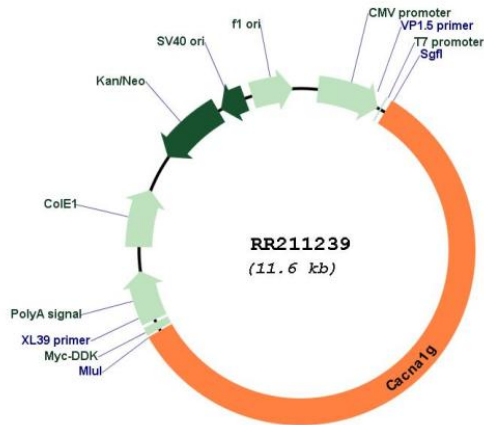
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_031601

ORF Size: 6765 bp

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:	<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:	<u>NM_031601.4</u> , <u>NP_113789.3</u>
RefSeq Size:	7657 bp
RefSeq ORF:	6768 bp
Locus ID:	29717
Cytogenetics:	10q26
MW:	250.3 kDa
Gene Summary:	low voltage-activated calcium channel alpha subunit; involved in calcium ion transport in nerve, muscle and edocrine cells [RGD, Feb 2006]