

Product datasheet for RN211239

Cacna1g (NM_031601) Rat Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Cacna1g (NM_031601) Rat Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Cacna1g |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |
| Fully Sequenced ORF: | >RN211239 representing NM_031601 Red=Cloning site Blue=ORF Orange=Stop codon |

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

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TGCCACTTGAGCCAGTCCGTTGCCAGGCACCCCCTCCCAGATGCCCATCGGAGGCATCTGGTAGGACTG
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_031601
- Insert Size:** 6768 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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_031601.4](#), [NP_113789.3](#)
- RefSeq Size:** 7657 bp
- RefSeq ORF:** 6768 bp
- Locus ID:** 29717

Cytogenetics: 10q26

Gene Summary: low voltage-activated calcium channel alpha subunit; involved in calcium ion transport in nerve, muscle and edocrine cells [RGD, Feb 2006]
Transcript Variant: This variant (2) lacks two in-frame exons compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is shorter compared to isoform 1.
Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.