

Product datasheet for RN213734

Cacna2d3 (NM_175595) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cacna2d3 (NM_175595) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Cacna2d3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN213734 representing NM_175595 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGGGCCGGGCTCGCTGTGCTGCGCGTCCCGGGGGCCCTCGGCGCTCCTAGCCACAGCGCTTCTCT
ACGCCGCGCTGGGGGACGTGGTGCCTCCGAGCAGCAGATCCCGCTCTCCGTAGTGAAGCTCTGGGCCTC
CGCTTTTGGTGGGGAGATAAAATCCATTGCTGCCAAGTACTCGGGTCCAGCTTCTGCAAAAGAAATAC
AAAGAGTATGAGAAAGACGTTGCCATTGAAGAAATCGACGGTCTCCAAGTGGTAAAAAGCTGGCCAAGA
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CCTGAAGCATGAATTTGACGCCGACTTGCAGTATGAATACTTCAATGCCGTGCTGATCAACGAGAGAGAG
AAAGATGGAACTTTTTGGAATTGGGAAAGGAGTTCATCTTGGCCCAATGACCATTTAATAATTTGC
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TCGACCAAGGAACATGATGTGGTGTGACCGAAGCGTACATCGACAGCACTTGTGATGATCAGGGCCT
CGTCTTGATGACCACAGTGGCCATGCCTGTGTTAGTAAGCAGAACGAAACTAGGTCAAAGGGCATCTT
CTGGGTGTGTTGGCACAGATGTCACAGTAAAGAGCTTCTGAAGACCATCCCCAAATACAAGTTAGGAA
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TGAAGAAGGGAAAAAGCGAAGGAAGCCTAATTACAGTAGTGTGGATCTCTCGGAAGTCGAGTGGGAAGAT
CGGGATGATGTGTACGAAATGCCATGGTGAATCGGAAGACTGGGAAATCTCCATGGAAGTGAAGAAGA
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TGCACCCAGAGCACCGCCATCTCTCAACTGGAAGCGATTAAAGCTCTACCTCAAAGGCAAGGACCTCT
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GTATAATGAATCCCTTAAGTGTGAACGGTTAAAGGCTCAGAAGATCAGACGACGTCGGGAATCCTGCCAC
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Chromatograms: https://cdn.origene.com/chromatograms/ja1875_e09.zip

Restriction Sites: SgfI-MluI

ACCN: NM_175595

Insert Size: 3258 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](#)

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_175595.2](#), [NP_783185.1](#)

RefSeq Size: 3276 bp

RefSeq ORF: 3258 bp

Locus ID: 306243

UniProt ID: [Q8CFG5](#)

Cytogenetics: 16p16

Gene Summary: auxillary subunit of the voltage dependent calcium channel; may be involved in calcium current in the heart [RGD, Feb 2006]