

Product datasheet for **RN200419**

Cacna2d1 (NM_001110847) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cacna2d1 (NM_001110847) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Cacna2d1
Synonyms:	Cacna2; CCHLA2; DHSCCA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN200419 representing NM_001110847 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGCTGGCTGCCTGCTGGCCTTACTCTGACACTTTTCCAATCTTGGCTGATCGGCCCTCGAGCG
AGGAGCCCTTCCCTTCGCCCGTCACTATCAAGTCATGGGTGGATAAAAATGCAGGAAGACCTTGTCACT
GGCAAAGACAGCAAGTGGAGTACTCAGCTTGTGACATTTATGAAAAATACCAAGATTTGTATACTGTG
GAGCCAAATAATGCACGCCAACTGGTTGAAATTGCAGCTAGAGACATTGAGAACTTCTGAGCAACAGAT
CTAAAGCCCTGGTGCCTGGCTATGGAAGCAGAGAAAGTCCAAGCCGCCACCAATGGAGGAAGATTT
TGCAAGCAACGAAGTTGTCTACTACAACGCTAAAGACGATCTTGATCCTGAAAGAAATGAGAGTGAGTCA
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CAGCGGTCATATTTCCACGGACATCTATGAGGGCTCAACCATAGTGTTAAACGAACTCAACTGGACAAG
TGCCCTTAGATGAAGTTTTCAAAGAAATCGAGATGAAGACCCTACATTGCTGTGGCAAGTGTGGCAGC
GCCACCGGCTGGCCGATATTATCCAGCTTCCCGTGGGTGGATAACAGCAGAACTCCAAACAAGATCG
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AGAGCCAATTGTAATAAGATCATCATGTTATTCACGGATGGAGGAGAAGAGAGAGCCAGGAGATATTTG
CCAAGTACAATAAAGACAAAAAGTCCGCGTGTACATTTTCTGTTGGTCAACATAATTATGACAGAGG
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TCCAGTGGACAAATGTGATTTGGATGCTCTGGAGCTGGGACTTGTCTACTGGAATCTACCGGCTT
CAACGTCAGTGGCCAGTCTGAAAATAAGACTAAGTGAAGAACCAGTTGATCTTGGTGTGATGGCGCT



GATGTGTCTCTGGAAGATATTAAGAGATTGACACCACGTTTTACTGTGCCCAACGGTACTATTTTG
 CAATCGATCCTAATGGTTATGTCTTACTGCATCCAAATCTTCAGCCAAAGGAGCCGGTCACACTGGATTT
 TCTCGATGCTGAGTTAGAGAATGATATTAAGTGGAGATTCGAAATAAAATGATAGACGGAGAAAGTGA
 GAAAAACATTGAGAATCTGGTCAAATCTCAAGATGAGAGATATATTGACAAAGGAAATCGAACATACA
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 AGCAAAGCTGTAGAAGTACATCCAAGGAAAACCTTCTAAGCCTGCAGTTGTGGGAATTAATTTGACG
 TAACTCCTGGATAGAAAATTTACAAAACCTCAATCAGGGATCCGTGTGCTGGTCCAGTTTGTGACTG
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 GATGATTACACTAATCAGATTGGACGTTTTTTTGGAGAGATTGACCCGAGCATGATGAGACACCTGGTTA
 ATATATCACTTTATGCATTCAATAAATCATATGACTATCAGTCTGTGTGTATCCAGGGGCAGCACCAAA
 GCAAGGAGCAGGACATCGCTCAGCCTATGTGCCATCAATTACAGACATACTCCAGATTGGCTGGTGGCC
 ACTGCTGCCGCTGGTCAATTCTCCAGCAGCTACTCTTGAAGTTTACATTTCCACGGCTCCTTGAGGCAG
 TTGAAATGGAAGAGGATGACTTCACAGCTTCCCTGTCTAAGCAGAGCTGCATCACAGAACAACCTCAGTA
 CTTCTTCAAGAAGCATACTAAATCATTACAGTGGTTTACTGGACTGTGGAACTGTTCCAGGATCTTTTCA
 GTTGAGAAGCTTATGAACACCAACCTAGTGTTCATAATGGTGGAGAGCAAGGGAACATGTCCGTGTGACA
 CGCGGCTGCTCATGCAAGCAGAACAGACTTCTGATGGTCCAGATCCTTGGCAGATGGTTAAGCAGCCCAG
 ATACCGAAAAGGACCTGATGCTGCTTTGATAACAATGTGCTGGAGGATTATACCGACTGTGGTGGTGT
 TCTGGATTAACCCCTTCTTATGGTCTATCTTTGGACTCCAATTTATACTCCTTTGGCTGGTATCTGGCA
 GCAGACACTATCTATGGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1414_a08.zip

Restriction Sites: Sgfl-Mlul

ACCN: NM_001110847

Insert Size: 3240 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_001110847.1, NP_001104317.1

RefSeq Size: 3264 bp

RefSeq ORF: 3240 bp

Locus ID: 25399

Cytogenetics: 4q12

Gene Summary: subunit of voltage-gated calcium channels; contributes to the regulation of N- and/or L-type calcium channels [RGD, Feb 2006]