

Product datasheet for **RN200421**

Cacna2d1 (NM_001110848) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cacna2d1 (NM_001110848) Rat Untagged Clone
Tag: Tag Free
Symbol: Cacna2d1
Synonyms: Cacna2; CCHLA2; DHSCCA
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN200421 representing NM_001110848
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCTGCTGGCTGCCTGCTGGCCTTGACTCTGACACTTTTCCAATCTTGGCTGATCGGCCCTCGAGCG
AGGAGCCCTTCCCTTCGCCGCTCACTATCAAGTCATGGGTGGATAAAATGCAGGAAGACCTTGTCACACT
GGCAAAGACAGCAAGTGGAGTGACTCAGCTTGCTGACATTTATGAAAAATACCAAGATTTGTATACTGTG
GAGCCAAATAATGCACGCCAACTGGTTGAAATTGCAGCTAGAGACATTGAGAACTTCTGAGCAACAGAT
CTAAAGCCCTGGTGCCTGGCTATGGAAGCAGAGAAAGTCCAAGCCGCCACCAATGGAGGGAAGATTT
TGCAAGCAACGAAGTTGTCTACTACAACGCTAAAGACGATCTTGATCCTGAAAGAAATGAGAGTGAGTCA
GGCAGCCAACGGATTAACCTGTTTTTATCGAAGACGCTAATTTTGGACGCCAGATATCCTATCAACATG
CAGCGGTCCATATCCACGGACATCTATGAGGGCTCAACCATAGTGTTAAACGAACCTCACTGGACAAG
TGCCTTAGATGAAGTTTTCAAAGAAATCGAGATGAAGACCCTACATTGCTGTGGCAAGTGTGGCAGC
GCCACCGCCTGGCCGATATTATCCAGCTTCTCCGTGGGTGGATAACAGCAGAACCTCAAACAAGATCG
ATCTCTACGATGTACGCAGAAGACCATGGTACATCCAGGGAGCTGCATCCCCCAAAGACATGCTCATTCT
GGTGGACGTGAGTGAAGTGTGAGCGGATTGACTCTGAAACTCATCCGGACATCTGTCTCTGAGATGTTA
GAAACCTTTCCGATGATGATTTCTGTAATGTAGCTTCATTTAACAGCAATGCTCAGGATGTGAGTTGTT
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AAAGGGGATAACAGATTACAAGAAAGGCTTTAGCTTCGCGTTTGAACAGCTACTTAATTATAATGTTTCC
AGAGCCAATTGTAATAAGATCATCATGTTATTCACGGATGGAGGAGAAGAGAGAGCCAGGAGATATTTG
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ATCAATACTCAGGAATATCTAGATGTTCTGGGAAGACCAATGGTTTTAGCCGGGGACAAAGCAAAGCAAG
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CAACGTCCTGGCCAGTCTGAAAATAAGACTAACTTGAAGAACCAGTTGATTCTTGGTGTGATGGCGGT
GATGTGCTCTGGAAGATATTAAGAGATTGACACCACGTTTTACTGTGCCCAACGGTTACTATTTTG



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CAATCGATCCTAATGGTTATGTCTTACTGCATCCAAATCTTCAGCCAAAGAACCCCAAATCTCAGGAGCC
GGTCACACTGGATTTTCTCGATGCTGAGTTAGAGAATGATATTAAGTGGAGATTCGAAATAAAATGATA
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TGAGACACCTGGTTAATATATCACTTTATGCATTCAATAAATCATATGACTATCAGTCTGTGTGATCC
AGGGGCAGCACCAAAGCAAGGAGCAGGACATCGCTCAGCCTATGTGCCATCAATTACAGACATACTCCAG
ATTGGCTGGTGGGCCACTGCTGCGCCTGGTCAATTCTCCAGCAGCTACTCTTGAGTTTGACATTTCCAC
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AGAACAACTCAGTACTTCTTCAAGAACGATACTAAATCATTCAAGTGGTTACTGGACTGTGAAACTGT
TCCAGGATCTTTCATGTTGAGAAGCTTATGAACACCAACCTAGTGTTATAATGGTGGAGAGCAAGGAA
CATGTCCGTGTGACACGCGGCTGCTCATGCAAGCAGAACAGACTTCTGATGGTCCAGATCCTTGCGACAT
GGTTAAGCAGCCAGATACCGAAAAGGACCTGATGTCTGCTTTGATAACAATGTGCTGGAGGATTATACC
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ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001110848
- Insert Size:** 3255 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_001110848.1](#), [NP_001104318.1](#)

RefSeq Size: 3264 bp

RefSeq ORF: 3255 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]