

Product datasheet for **RN205074**

Cacna2d2 (NM_175592) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cacna2d2 (NM_175592) Rat Untagged Clone
Tag: Tag Free
Symbol: Cacna2d2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN205074 representing NM_175592
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGTGCCGGCTCGGACCTGCGGCGCTTCTTGGCCCGGCCGGTGCAGACCGCTCGCCCTGGCCCC
 GTCGCGGTCCCCGGCCCTGCCCTGACCCCCGGGGCCAGCGTCCGGGCCCGCACGCCGCTCTTGCTACT
 GCTGCCGCTCTGCTGCTTTTACCGCTGCTCACCGCCCGCGCCTCTGCCTACAGCTTCCCCAGCAG
 CACACGATGCAGCACTGGGCCCGCGCCTGGAGCAGGAGATTGACGGTGTGATGCGGATTTTGGAGGCG
 TGCAGCAGCTCCGAGAGATCTACAAGGACAATCGGAACCTGTTTGTGATGTGAGGAGAATGAACCACAGAA
 ACTAGTGGAGAAGGTGGCAGGGGACATTGAGAGCCTGCTGGACAGAAAGGTCCAGGCCTTGAAGAGACTG
 GCTGACGCTGCAGAGAATTTCCAGAAAGCCACCCTGGCAAGACAACATCAAGGAGGAAGACATCATGT
 ACTATGACGCCAAGGCTGACGCCGAGCTGGATGATCCTGAGAGTGAGGATATGGAGAGGGATCCAAGAC
 CAGCGCTTAAGGCTGGACTTCATCGAGGAGCCAACTCAAGAACAAGTCAACTATTCATACACGGCC
 GTGCAGATCCCCACAGATATCTACAAAGGCTCTACCGTCATCCTCAATGAGCTTAACTGGACGGAGGCC
 TGGAGAATGTCTTCATTGAGAACCGTAGCAAGACCCTACACTGTTGTGGCAAGTCTTCGGCAGTGCCAC
 GGGAGTACCCCGTATTACCCAGCCACACCGTGGCGAGCCCCAAGAAGATTGACCTGTACGATGTCAGA
 AGACGACCCTGGTATATACAGGGGGCTCATACCCAAGGACATGGTCATCATTGTGGATGTGAGTGGCA
 GTGTGAGCGGCCCTGACGCTGAAGCTGATGAAGACGTCTGTCTGTGAGATGCTAGACACACTCTCCGATGA
 TGACTATGTGAATGTGGCCTCATTCAACGAGAAGGCGCAGCCTGTGTCTTGCTTCACACACCTGGTGCA
 GCCAATGTGCGGAACAAGAAGGTGTTCAAGGAAGCTGTGCAGGGCATGGTGGCAAGGGCACCACAGGCT
 ACAAGGCTGGCTTTGAGTATGCCTTTGACCAGCTACAGAATCCAACATCACCCGTGCTAACTGCAATAA
 GATGATCATGATGTTACGGACGGGGAGAGGATCGCGTGACGAGCCTTTTGAAGAATAAATTTGGCCC
 AATCGGACGGTACGCGTCTTACGTTCTCCGTAGGACAGCATAACTATGATGTACACCCCTGCAGTGGA
 TGGCTTGTACTAACAAGGTTACTATTTTGGAGATCCCTTCCATCGGAGCCATCCGCATCAACACACAGGA
 ATACCTGGATGTGCTGGGTAGGCCCATGGTCTGGCAGGCAAGGACGCCAAGCAAGTGAATGGACAAAC
 GTGTATGAAGATGCGCTGGGGCTGGGGTGGTGGTAAACAGGGACTCTCCCTGTTTTCAACCTGACACAGG
 ATGGCCCTGGGGACAAGAAGAACCAGCTAATCCTGGGTGTGATGGGCATAGATGTGGCCCTGAATGACAT
 CAAAAGGCTGACTCCCACTACACACTTGGCGCCAATGGTACGTGTTGCCATCGACTGAATGGCTAT



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GTGTTGCTACATCCCAATCTCAAGCCCCAGATTACCAACTTCCGGGAGCCTGTGACCTTGGACTTCTGG
 ATGCAGAGCTGGAAGATGAGAACAAGGAGGAGATCCGTCGTAGTATGATTGACGGAGACAAAGGCCACAA
 GCAGATCAGAACCTTGGTCAAATCCCTGGATGAGAGGTACATAGATGAAGTGATTCGGAACCTACACCTGG
 GTGCTATAAGGAGTACCAACTACAGCCTGGGGCTGGTGTCCCACCTACAGCACCTACTACCTCCAAG
 CCAACCTCAGCGACCAGATCCTGCAGGTCAAGTTGCCAATCAGCAAACCTGAAGGATTTTGTAGTTCTGTCT
 CCCAGCAGCTTTGAGTCTGAAGGACATGTTTTATTGCTCCCAGAGAGATTGCAAGGATTTGAATGCC
 TCAGACAACAACACCCGAGTTCTGAAAACTTCATTGAGCTCATGGAGAAAGTACTCCGGACTCCAAGC
 AGTGCAATAACTTCCTTCTGCATAACTTGATTTTGGACACGGGCATTACGCAGCAGTTAGTGGAACGCGT
 CTGGCGGGACCAAGATCTCAACACGTACAGCCTGCTAGCTGTATTTGCTGCCACTGACGGTGGCATCACA
 CGTGTCTTCCCGAACAGGCAGCTGAAGACTGGACAGAAAACCTGAACCTTCAATGCCAGCTTCTACC
 GCCGCAGCTGGATAACCGTGGTTATATCTTCAAGCCCCGCACCAGGACTCCCTGTTAAGGCCACTGGA
 GCTGGAGAATGACACAGTAGGCGTCTCGTCAGCACAGCTGTAGAGCTCAGTCTGGGTGCGCCGACACTG
 AGGCCAGCAGTGGTGGTGTCAAACCTGGACCTAGAGGCTTGGGCTGAAAAGTTCAAGGTGCTTGCCAGCA
 ACCGTACCCATCAGGACCAACCTCAGAAGCAGTGCAGCCCGCAGCCACTGTGAGATGGACTGCGAGGT
 AAACAACGAGGACCTACTCTGTGCTCCTATTGATGACGGGGGATTCTGGTGTGTCAAACCAAAACCAC
 CAGTGGGACCAGGTTGGCAGGTTCTTCACTGAGGTGGATGCCAACCTGATGCTGGCACTGTACAATAACT
 CCTTCTACACCAGAAAGGAGTCCATGACTATCAGGCAGCTTGTGCCCTCAGCCTCCTGGCAACCTGGG
 TGCTGCACCCAGGGGTGCTTTGTGCCACCATTGCAGATTTCTTAACTTGGCCTGGTGGACCTGCTGT
 GCCGCTGGTCTTATTCCAGCAACTACTTTATGGTCTCATCTATCACAGCTGGTCCAGGCAGACCCGG
 CAGAAGCCGAGGGCAGCCCCGAGACGCGGAGAGCAGCTGCGTCATGAAACAAACCCAGTACTACTTCGG
 CTCGGTGAACGCGTCTATAACGCCATCATCGACTGCGGAAATGCAGCAGGCTGTTCCACGCGCAGAGA
 CTGACCAACACCAACCTTCTGTTCTGGTGGCGGAGAAGCCGCTGTGCAGCCAGTGCAGGTCGCGCCGGC
 TGCTACAAAAGGAGACACACTGCCAGCGGACGCCCCGAGCAGTGTGAGCTGGTGCAGAGACCCGGATA
 CCGAACAGGCCCGCACATCTGTTTTGACTACAATGCGACGGAAGATACCTCAGACTGTGGCCGCGGAGCC
 TCCTTCCCTCCGTCGCTGGGCGTCTTGGTTTTCCCTGCAGCTGTTGCTCCTCCTAGGCCTGCCACCTCGGC
 CGCAGCCTCAAATCCATTCTTACGCCCTCTCGCCGCCTTGA

ACGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGA
 TTACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-NotI
- ACCN:** NM_175592
- Insert Size:** 3474 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_175592.2](#), [NP_783182.1](#)

RefSeq Size: 3502 bp

RefSeq ORF: 3474 bp

Locus ID: 300992

UniProt ID: [Q8CFG6](#)

Cytogenetics: 8q32

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