

Product datasheet for MC223541

Cacna2d1 (NM_001110843) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cacna2d1 (NM_001110843) Mouse Untagged Clone
Tag: Tag Free
Symbol: Cacna2d1
Synonyms: Ca(v)alpha2delta1; Cac; Cacna2; Cchl; Cchl2a
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC223541 representing NM_001110843
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTGCTGGCTGCCTGCTGGCCTTGACTCTGACACTTTCCAATCTGGGCTGATCGGCCCTCGAGCG
 AGGAGCCCTTCCCTTCGCCGCTCACTATCAAGTCATGGGTGGACAAGATGCAAGAAGACCTTGTCACACT
 GGCAAAAACAGCAAGTGGAGTGACTCAGCTTGCTGATATTTATGAAAAATACCAAGATTTGTATACTGTG
 GAGCCCAACAATGCACGCCAACTGGTTGAAATTGCAGCCCGAGACATTGAGAAGCTTCTAAGCAACAGAT
 CTAAGGCCCTGGTGCCTGGCTATGGAAGCAGAGAAAGTCCAAGCAGCCACCAATGGAGGGAAGATTT
 TGCAAGCAATGAAGTTGCTACTATAATGCTAAGGATGATCTTGATCCTGAAAGAAATGAGAGTGAGCCA
 GGCAGCCAACGGATTAACCTGTTTTATTGAAGATGCTAATTTTGGACGTGAGATATCCTATCAGCATG
 CAGCGGTCCATATCCCACGGACATCTATGAGGGCTCAACCATAGTGTTAAACGAACTCAACTGGACAAG
 TGCCTTAGATGAAGTATCAAAGAAATCGAGACGAAGACCCTACACTGCTGTGGCAAGTGTGGCAGC
 GCCACTGGCCTGGCCCGATATTATCCAGCTTCTCCATGGGTGGATAATAGTAGAACTCAAACAAGATTG
 ATCTATATGATGTACGCAGAAGACCATGGTACATCCAGGGAGCTGCATCCCAAGGACATGCTCATTCT
 GGTGGACGTGAGTGAAGTGTGAGCGGATTGACTCTGAAACTCATCCGAACATCTGTCTCCGAGATGTTA
 GAAACCCTCTCTGATGATGATTTCTGTAATGTAGCTTCATTTAACAGCAACGCTCAGGATGTAAGCTGTT
 TCCAGCACCTGGTTCAAGCGAATGTAAGAAATAAGAAGGTGTTGAAAGATGCCGTGAATAACATTACAGC
 AAAGGGGATCACAGATTACAAGAAAGGCTTTAGCTTTGCCTTCGAACAGCTACTTAATTATAATGTTTCC
 AGAGCTAATTGCAATAAGATTATCATGTTATTCACGGATGGAGGAGAAGAGAGAGCCAGGAGATATTTG
 CCAATAACAATAAAGACAAAAAAGTCCGTGTGTTACATTTTCCGTCGGTCAACATAATTATGACAGAGG
 ACCTATTCAGTGGATGGCTTGAAAAATAAAGGTTACTATTATGAGATCCCTCCATTGGTGAATAAGA
 ATCAATACTCAGGAATATCTAGATGTTCTGGGAAGACCAATGGTTTTAGCTGGTGACAAAGCGAAGCAAG
 TTCAATGGACAAATGTGTATTTGGACGCCCTGGAAGTGGGACTTGTCATTACTGGAAGTCTACCAGTCTT
 CAACGTCCTGGCAATCTGAAAATAAGACAAACTTGAAGAACCAGTTGATTCTTGGTGTGATGGCGGT
 GATGTGCTCTGGAAGATATCAAGAGATTGACACCACGTTTTACTCTGTCCCAATGGCTACTATTTTG



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CAATTGATCCTAATGGCTATGTCTTATTGCATCCAAATCTTCAGCCAAAGCCTATTGGTGTAGGTATACC
 GACAATTAATTTAAGGAAAAGGAGACCCCAACGTTCAGAACCCCAATCTCAGGAGCCAGTCACACTGGAT
 TTTCTCGATGCTGAGTTAGAGAAATGAAATTAAGTGGAGATTCGAAATAAAATGATAGATGGAGAAAGTG
 GAGAAAAACGTTGAGAACTCTGGTCAAGTCTCAAGATGAGAGATACATTGACAAAGGAAATCGAACATA
 CACATGGACGCCTGTCAATGGCACAGATTACAGTTTGGCCTTGGTATTGCCAACCTACAGTTTTACTAT
 AAAAAAGCCAACTAGAAGAGACAATAACTCAGCCAGATATTCAGAAACCCGAAAGCCAGACAAATTTTG
 AAGAATCTGGCTATACTTTCATAGCACCAGGGAATACTGCAATGATCTTAAACCTTCAGATAATAACAC
 TGAATTTCTTTTGAATTTCAATGAATTTATTGATAGGAAAACCTCAAACAACCCCTCCTGTAAATACAGAT
 TTGATTAATAGAATCTTGCTGGATGCAGGTTTTACAAATGAACTTGCCAAAATTATTGGAGTAAGCAGA
 AAAATATCAAAGGAGTGAAGGCACGCTTTGTGGTGACAGACGGTGGGATTACGAGAGTTTATCCCAAAGA
 GGCCGGAGAAAATTGGCAAGAGAACCCAGAGACGTACGAGGACAGCTTCTACAAACGGAGCCTAGATAAC
 GATAACTACGTTTTCTACTGCGCCCTACTTTAACAAAAGTGGACCTGGTGCATGAAATCTGGAATTATGG
 TAAGCAAAGCAGTAGAACTGTATATCCAAGGAAAACCTTCTAAGCCCGCAGTTGTGGGAATTAATAATGA
 TGTAATTTCTGGATAGAAAATTTACCAAACCTCAATCAGGGATCCGTGTGCTGGTCCAGTTTGTGAC
 TGCAAAAGAAACAGTGATGTAATGGACTGTGTCATTCTAGATGATGGTGGATTTCTTTTGTGGCAATC
 ACGATGATTACACTAATCAGATTGGACGTTTTTTTGGAGAGATTGACCCAAGCATGATGAGACACCTGGT
 TAATATATCACTTTATGCATTCAACAAATCATATGACTATCAGTCCGTGTGCGATCCAGGGGCAGACCA
 AAGCAGGGGGCAGGACATCGCTCAGCATATGTGCCATCGATTGCAGATATACTGCAGATTGGCTGGTGGG
 CCACCGCTGCCGCTGGTCTATTCTCCAGCAGCTGCTCTTGAGTTTGACATTTCCACGGCTCCTTGGAGC
 AGTTGAGATGGAGGAAGTACTTACAGCCTCCCTGTCTAAGCAGAGCTGCATCACAGAACAACCCAG
 TACTTCTCAAGAACGATACTAAATCATTAGTGGTTTACTGGACTGTGGAACTGTTCCAGGATCTTTC
 ATGTAGAGAACTTATGAACACCAACTAGTATTCATAATGGTGGAGAGCAAAGGGACATGTCGGTGTGA
 CACGCGGCTGCTCATGCAAGCGGAACAGACTTCTGATGGTCCAGATCCTTGCACATGGTCAAGCAGCCC
 AGATACCGAAAAGGACCTGATGTCTGCTTTGATAATAATGTGCTGGAGGATTATACTGACTGTGGTGGTG
 TTTCTGGGTTAAACCTTCTTATGGTCTATCTTTGGACTCCAGTTTATACTCCTTTGGCTGGTATCTGG
 CAGCAGACACTACCTACTGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001110843
- Insert Size:** 3312 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_001110843.1](#), [NP_001104313.1](#)

RefSeq Size: 7472 bp

RefSeq ORF: 3312 bp

Locus ID: 12293

UniProt ID: [O08532](#)

Cytogenetics: 5 6.56 cM

Gene Summary: This gene encodes a regulatory component of the voltage-dependent calcium channel complex. The product of this gene is a proprotein that is proteolytically processed into alpha-2 and delta subunits, which are linked by a disulfide bond. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jan 2013]

Transcript Variant: This variant (a) represents the longest transcript and encodes the longest isoform (a), which is processed into alpha-2a and delta-1 subunits. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.