

Product datasheet for **MC223503**

Cacna2d1 (NM_001110844) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cacna2d1 (NM_001110844) 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:	>MC223503 representing NM_001110844 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCTGCTGGCTGCCTGCTGGCCTTGACTCTGACACTTTTCCAATCTGGGCTGATCGGCCCTCGAGCG
AGGAGCCCTTCCCTTCGCCGCTCACTATCAAGTCATGGGTGGACAAGATGCAAGAAGACCTTGTCACACT
GGCAAAAACAGCAAGTGGAGTGACTCAGCTTGCTGATATTTATGAAAAATACCAAGATTTGTATACTGTG
GAGCCCAACAATGCACGCCAACTGGTTGAAATTGCAGCCCGAGACATTGAGAAGCTTCTAAGCAACAGAT
CTAAGGCCCTGGTGCCTGGCTATGGAAGCAGAGAAAGTCCAAGCAGCCCACTAAGGAGGAAAGATT
TGCAAGCAATGAAGTTGCTACTATAATGCTAAGGATGATCTTGATCCTGAAAGAAATGAGAGTGAGCCA
GGCAGCCAACGGATTAACCTGTTTTATTGAAGATGCTAATTTTGGACGTGAGATATCCTATCAGCATG
CAGCGGTCCATATCCCACGGACATCTATGAGGGCTCAACCATAGTGTTAAACGAACTCACTGGACAAG
TGCCTTAGATGAAGTATCAAAGAAATCGAGACGAAGACCCTACACTGCTGTGGCAAGTGTGGCAGC
GCCACTGGCCTGGCCGATATTATCCAGCTTCTCCATGGGTGGATAATAGTAGAACTCAAACAAGATTG
ATCTATATGATGTACGCAGAAGACCATGGTACATCCAGGGAGCTGCATCCCAAGGACATGCTCATTCT
GGTGGACGTGAGTGAAGTGTGAGCGGATTGACTCTGAAACTCATCCGAACATCTGTCTCCGAGATGTTA
GAAACCCTCTCTGATGATGATTTCTGTAATGTAGCTTCATTTAACAGCAACGCTCAGGATGTAAGCTGTT
TCCAGCACCTGGTTCAAGCGAATGTAAGAAATAAGAAGGTGTTGAAAGATGCCGTGAATAACATTACAGC
AAAGGGGATCACAGATTACAAGAAAGGCTTTAGCTTTGCCTTCGAACAGCTACTTAATTATAATGTTTCC
AGAGCTAATTGCAATAAGATTATCATGTTATTCACGGATGGAGGAGAAGAGAGAGCCAGGAGATATTTG
CCAAATAACAATAAAGACAAAAAGTCCGTGTGTTACATTTTCCGTCGGTCAACATAATTATGACAGAGG
ACCTATTCAGTGGATGGCTTGAAAAATAAAGGTTACTATTATGAGATCCCTCCATTGGTGAATAAGA
ATCAATACTCAGGAATATCTAGATGTTCTGGGAAGACCAATGGTTTTAGCTGGTGACAAAGCGAAGCAAG
TTCAATGGACAAATGTGTATTTGGACGCCCTGGAAGTGGGACTTGTCATTACTGGAAGTCTACCAGTCTT
CAACGTCCTGGCAATCTGAAAATAAGACAACTTGAAGAACCAGTTGATTCTGGTGTGATGGCGGT
GATGTGCTCTGGAAGATATCAAGAGATTGACACCACGTTTTACTCTGTCCCAATGGCTACTATTTTG



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CAATTGATCCTAATGGCTATGTCTTATTGCATCCAAATCTTCAGCCAAAGAACCCCAAATCTCAGGAGCC
 AGTCACACTGGATTTTCTCGATGCTGAGTTAGAGAATGAAATTAAGTGGAGATTCGAAATAAATGATA
 GATGGAGAAAGTGGAGAAAAACGTTTCAGAACTCTGGTCAAGTCTCAAGATGAGAGATACATTGACAAAG
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 CAGTTTTACTATATAAAAGCCAACTAGAAGAGACAATAACTCAGGCCAGATCAAAAAAGGAAAAATG
 AAGGATTCAGAAACCCTGAAGCCAGACAATTTGAAGAATCTGGCTATACTTTTCATAGCACCAAGGGAAT
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 GAAAACTCCAAACAACCCCTCCTGTAATACAGATTTGATTAATAGAATCTTGCTGGATGCAGGTTTTACA
 AATGAACTTGCCAAAATTATTGGAGTAAGCAGAAAAATATCAAAGGAGTGAAGGCACGCTTTGTGGTGA
 CAGACGGTGGGATTACGAGAGTTTATCCCAAAGAGGCCGGAGAAAATTGGCAAGAGAACCAGAGACGTA
 CGAGGACAGCTTCTACAAACGGAGCCTAGATAACGATAACTACGTTTTCTACTGCGCCTACTTTAACAAA
 AGTGGACCTGGTGCATGAATCTGGAATTATGGTAAGCAAAGCAGTAGAACTGTATATCCAAGGAAAAAC
 TTCTTAAGCCCGAGTTGTGGGAATTAATTTGATGTAATTTCTGGATAGAAAATTTACCAAACTTC
 AATCAGGGATCCGTGTGCTGGTCCAGTTTGTGACTGCAAAAGAAACAGTGTATGAACTGGACTGTGCATT
 CTAGATGATGGTGGATTTCTTTGATGGCAAATCACGATGATTACACTAATCAGATTGGAGGTTTTTTG
 GAGAGATTGACCAAGCATGATGAGACACTGGTTAATATACACTTTATGCATTCAACAAATCATATGA
 CTATCAGTCCGTGTGCGATCCAGGGGCAGCACCAAGCAGGGGGCAGGACATCGCTCAGCATATGTGCCA
 TCGATTGCAGATATACTGCAGATTGGCTGGTGGGCCACCCTGCGCCTGGTCTATTCTCCAGCAGCTGC
 TCTTGAGTTTGACATTTCCACGGCTCCTTGAGGCGATTGAGATGGAGGAAGATGACTTCACAGCCTCCCT
 GTCTAAGCAGAGCTGCATCACAGAACAAACCCAGTACTTCTTCAAGAACGATACTAAATCATTAGTGGT
 TTAAGTGGAGAGCAAAGGGACATGTCCGTGTGACACGCGGCTGCTCATGCAAGCGGAACAGACTTCTGA
 TGGTCCAGATCCTTGCAGATGGTCAAGCAGCCAGATACCGAAAAGGACCTGATGTCTGCTTTGATAAT
 AATGTGCTGGAGATTATACTGACTGTGGTGGTGTCTGGGTTAAACCCCTCCTTATGGTCTATCTTTG
 GACTCCAGTTTATACTCCTTTGGCTGGTATCTGGCAGCAGACACTACCTACTGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001110844
- Insert Size:** 3276 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_001110844.1](#), [NP_001104314.1](#)

RefSeq Size: 7436 bp

RefSeq ORF: 3276 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 (b) lacks an exon and contains an alternate exon in the coding region, but maintains the reading frame, compared to variant a. The encoded isoform (b), is shorter than isoform a, and is processed into alpha-2b 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.