

Product datasheet for MC223724

Cacna2d4 (NM_001033382) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cacna2d4 (NM_001033382) Mouse Untagged Clone
Tag: Tag Free
Symbol: Cacna2d4
Synonyms: 5730412N02Rik; BE686333
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC223724 representing NM_001033382
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCCAGGAGTTCCTGTGGCAGCAAGTTATCTCCAGCAGGGGCTGTCTCCTCCCCTGCCCTCCC
 CCAGTGGGAACACCATGGCAAGATGCCCATGTGTCTCTAGCCACAACCAAGACCACAGTGGACGGT
 GACAGCAGTGTGGACCTCCCTGTGGAAGACGCCAATCATCTGTGGCTGTGCTCTCGGACACCTCCCTG
 CCTACCGTGAGGGGCCAGACCACAGTTCCTCTGGAACAGTGAAGCTGTGGGCCGATACCTTCGGCAGGA
 ATCTGTACAACACGGTGACCAGATATTCAGGCTCCCTCCTGTGTCAGAAGAAGTACAAGGATGCAGAACC
 CAGTCTGAAGATCAAAGAGGTGGATGGCTTGGAGCTGGTGAAGAAGTTCTCGGAGGACATGGAGACCATG
 CTTCCGAGGAAAGTCGAGGCTGTTGAGAGCCTGGTGGAGGCCGCTGAGGAGGCTGACCTGAATCATGAGT
 TCAATGCATCTCTGGTGTAACTACTACAACCTCGGTAATCAATGAGAAGGATGACAAGGGCAACTA
 CGTGGAGCTGGGAGCTGAGTTTCTTCTCGAGTCCGACGCGCACTTCAGCAACCTGAGGGTGAATGTCTCC
 ATGAGCAGCGTTCAACTGCCACCAACGTGTACAACAAAGACCCAGACATTTTAAATGGCGTGTATATGT
 CCGAAGCCCTGAACCCCGTGTGTTGTGGAGAATTCAGAGAGACCCTACATTGACATGGCAGTATTTCCG
 CAGCTCAACTGGGTTCTTCCAGGATCTATCCAGGAATAAAGTGGATGCCTGATGAAAACGGAGTCATCGCC
 TTCGACTGCAGAAACCGTGGCTGGTACATACAAGCTGCCACATCTCCCAAAGACATCGTAATTCTGGTGG
 ACATTAGCGGCAGCATGAAGGGGCTGAGGATGGCTATCGCCAAGCACACCATTACCACCATTGGACAC
 CCTGGGAGAGAACGACTTCGTGAACATCATCGCGTACAATGACTACGTCCTACTACATTGAGCCCTGCTTC
 AAAGGCATCCTTGTCCAAGCAGATCGAGACAACCGAGAGCATTTCAGCAGTTGGTGGATGAGCTGATGG
 TCAAAGGTGTGGGTGTCGTGAGTCAAGCTAATTGAAGCTTTCGAGATCCTGAAACAGTTCCAAGAGTC
 CAAACAAGGAAGTCTCTGCAACCAGGCCATCATGCTTATCACCGATGGGGCTGTGGAAGACTATGAGCCC
 GTTTTGGAGCTATAACTGGCCAGACCGAAAGTCCGAGTTTTCACTTACCTTATTGGAAGAGAAGTGA
 CTTTCGCTGACCGCATGAAGTGGATCGCCTGCAACAATAAAGGCTACTACACACAGATCTCCACACTGGC
 GGATGCGCAGGAGAGCGTGTGAGTACCTGCATGTGCTTAGCCGCCCATGGTCATCAACCATGACCAC
 GACATCATCTGGACAGAGGCTTACATGGACAGCCGGCTTTCACATCAGAGGCACAGAGCCTGATGCTCC



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TCACCACAGTGGCCATGCCTGTCTTCAGCAAAAAGAATGAAACAAGATCCCATGGCATTCTCCTGGGTGT
 AGTGGGCTCTGACGTGACCCTAAGAGAGCTCATGAAGCTGGCACCCCGATATAAGCTTGGGGTGATGGC
 TATGCCTTCTTGAACACTAACAATGGCTACATCCTCTCTCATCCTGACCTCCGACCTTTGTACAGAGAAG
 GCAAGAAGCTGAGACCCAAACCAACTACAACAGTGTGGACCTCTCAGAAGTGGAGTGGGAGGACCAAGC
 TGAATTTCTGAGGACCGCCATGATCAATGGGAAACCGGTCTCACTCCATGGACGTGAAGGTGCCACTG
 GACAAAGGAAGCGAGTTCTATTCTGACCAATGACTACTTCTTCACAGACATCAGTGACACACCTTTCA
 GCCTGGGAGTGGTGCTCACCAGAGGTCATGGAGAATACATCCTCCTGGGGAACACATCTGTGGAAGAAG
 CCTGCACGACTTGCTTCAATCCGGATCTGACCCTGGCCAGTGACTGGATCTACTGTATCACAGATATCGAC
 CCGGACCACCGGAAACTCAGCCAACTGGAAGCTGTGGTTCGTTTCTGACAGGGGTGGATCCAGACCTGG
 AGTGTGACGAGGAACTGGTGCGGAGGTGCTGTTTGTGCGGTGGTAACCGCCCCATGGAAGCCTATTG
 GACAGCACTGGCACTCAACATCTCTGAAGAGTCAGAGCCTGGCGTGGATGTGGCCTTCTGGGAACCCGG
 GCTGGCCTTCTAAGAAGAAGCTTGTTCGTAGGCTCCGAGAAAGTCTCTGACAGGAAGTTCCTGACCCCTG
 AAGATGAAGCCAGTATTTTTACCATGGACCACTCCCCTGTGGTATCGCCAGGCCTCTGACAGCCCCC
 CGGCAGCTTTGTCTTCAATCTCCGCTGGCAGAGGGACCAGATAGCCAGGCAAGCCAGTGGCGGTAAAG
 GCCAGCACAGCAGTAACGTGACCGTGGATGGGAAGACGGCCATTGCAGCAGCTGTGGGCATCCAGATGC
 AAGCAGACTACCTCCAGCGCCAGTCTGGGCAGCCATGCAGCAGTGAACGCTGTAGAGGGGCCGTGCCT
 GAAGAGCTGCGAGGACACTGATCTCGACTGCTTCGTCATAGACAACAATGGCTTCGTCCTGATCTCAGAG
 AGACCCCAAGAGATGGGAAGACTTCTGGGGGAAGCGGATGGTGTCTCATGAAGCAACTTCTCAGCATGG
 GGGTGTTCAGCCGTGTGACCATGTATGACTACCAGGCCATGTGCAAGCCCCCAGATCATCACCACAGTGC
 GGCCGAATCCCTGTTCACTCCTCTCTGCCTTCTTGTGTTGGTGGCCAGGTGGCTACTGCATGAATGTCTC
 CTATTCTGTTAGAGTGGAGTGCCTGGGGATCTTGGCAGGACAAAGGGTCCAGAGGCCAAATCTGTCTTCC
 ATCACTCCCACAAGCACAAGAAGCAGGACCTGCTGCACCCTGTGACACAGAGTACCCAGTGTTCGTGCA
 TCAGACGGCCATCCAGGAAGCCAATGGCATCATCGAGTGTGGGGCTGCCAGAAGACATTCGTGATGCAA
 CAGATTCGCCGAAGCAACCTGCTCTGCTGCTGACAGACCGCACCTGTGACTGCAGCGCCCACTCTCCCA
 TCTCCAGGAGGCCACAGAAGTCAAATATAATGCCTCTGTCAAGTGTGACAGGATGCGCTCCCAGAAGCC
 CCGGAGACGACCAGGCTCCTGCCATGCCTTCCATCCAGAGGAGAATGCCAGGACTGTGGCGGTGCTTCA
 GACTCTGCCTTCAATCCCTCTGCTCCTGCTATCACTGGGGCCTGGCTGCTTCCACCCAGCTTCTGT
 GGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001033382
- Insert Size:** 3435 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_001033382.2](#), [NP_001028554.2](#)

RefSeq Size: 5803 bp

RefSeq ORF: 3435 bp

Locus ID: 319734

UniProt ID: [Q5R1F7](#)

Cytogenetics: 6 F1

Gene Summary: The alpha-2/delta subunit of voltage-dependent calcium channels regulates calcium current density and activation/inactivation kinetics of the calcium channel.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) encodes the longer isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.