

Product datasheet for **MC223739**

Cacna2d2 (NM_001174049) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cacna2d2 (NM_001174049) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cacna2d2
Synonyms:	a2d2; Cacna2d; du; mKIAA0558; td; torpid
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC223739 representing NM_001174049 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGTGCCGGCTCGGACCTGCGGCGCTTCTTGCCCGGCCCGGTGCGGACCGCTCGCCCTGGCCCG
GTCGCGGCCCGGCCCTGCCCTGACCCCGGGGCCAGCGTCCGGGCCCGCACGCCGCTTTGCTCTT
GCTGCCGCTCTGTTGCTTTACCGCTGCTCACCGCCCGGCGCCTCTGCCTACAGCTTCCCCAGCAG
CACACGATGCAGCACTGGGCCCGGCGCTGGAGCAGGAGATTGACGGTGTGATGCGGATTTTGGAGGCG
TGACGAGCTCCGAGAGATCTACAAGGACAATCGGAACCTGTTTGAAGTGCAAGGAGAATGAACCACAGAA
ATTGGTGGAGAAAGTGGCAGGGGACATCGAGAGCCTGCTGGACAGGAAGGTCCAGGCCCTGAAGAGACTG
GCTGACGCTGCAGAGAAATTCAGAAAGCCCATCGCTGGCAGGACAACATCAAGGAGGAAGACATCATGT
ACTACGATGCCAAGGCTGACGCCGAGCTGGATGACCTGAGAGTGAAGATATGGAGAGGGGATCCAAGAC
CAGCGCCTAAGGCTGGACTTCATCGAGGACCCAACTCAAGAACAAGTCAACTATTCATACACGGCT
GTGCAGATCCCCACAGACATCTACAAGGCTCTACCGTCATCCTCAATGAGCTTAACTGGACAGAGGCC
TGGAGAACGTCTTCATTGAGAACCCTAGGCAAGACCCTACACTGTTGTGGCAAGTCTTTGGCAGTGCCAC
GGGAGTCACTCGCTATTACCCAGCCACACCATGGCGAGCCCCAAGAAGATTGACCTGTACGATGTCAGA
AGACGACCCTGGTATATACAGGGGCTCATACCCCAAGGACATGGTCATCATTGTGGATGTGAGTGGCA
GCGTGAGCGCCCTGACTCTGAAGCTGATGAAGACGTCCTGCTGTGAGATGCTAGACACGCTCTCTGATGA
TGACTATGTGAACGTGGCCTCATTCAACGAGAAGGCGCAGCCTGTGTCTTGCTTACACACCTGGTGCAG
GCCAATGTGCGTAACAAGAAGGTGTTCAAGGAAGCTGTGCAGGGCATGGTGGCAAGGGCACCACAGGCT
ACAAGGCCGCTTTGAGTATGCCTTTGACCAGCTACAGAATCCAACATCACGCGGGCTAACTGCAATAA
GATGATCATGATGTTACGGATGGGGGTGAGGATCGCGTGCAGGATGTCTTCGAAAAGTACAATTGGCCC
AATCGGACGGTACGTGTGTTACGTTCTCCGTAGGACAGCATAACTATGATGTCACACCCTGCAGTGGA
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GTGATGAAGATGCACTGGGGTGGGGTGGTGGTAAACAGGAACCTCCCTGTTTCAACCTGACACAGG



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ATGGCCCTGGGGAAAAGAAGAACCAGTTAATCCTGGGTGTCATGGGCATCGATGTGGCCTTGAATGACAT
 CAAAAGGCTGACTCCCAACTACACACTCGGCGCCAATGGCTATGTGTTGCCATCGACCTGAACGGCTAC
 GTGTTGTACATCCCAATCTCAAGCCCCAGACTACCAACTCCGGGAGCCTGTGACCTTGGACTTCTCTGG
 ACGCAGAGCTGGAAGATGAGAACAAGGAGGAGATCCGTCGCAGCATGATTGACGGCGACAAAGGCCACAA
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 GTGCCTATAAGGAGTACCAACTACAGCCTGGGGCTGGTGCTCCCACCCTACAGCACCTACTACTCCAAG
 CCAACCTCAGCGACCAGATCCTGCAGGTCAAGTATTTTGTAGTTCTTCCAGCAGCTTTGAGTCTGA
 AGGACACGTTTTTATTGCTCCGAGAGAGTATTGCAAGGACTTGAACGCCTCGGACAACAACACCGAGTTC
 CTGAAGAACTTTCATCGAGCTCATGGAGAAAGTACTCCGACTCCAAGCAGTGTAATAAATTCTCTCTTC
 ATAATTGATTCTGGACACGGGCATTACACAGCAGTTAGTGGAACGTGTGTGGCGGGACCAAGATCTCAA
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 GCCGAAGACTGGACAGAAAACCCTGAACCCTTCAATGCCAGTCTTACCCTCGCAGCCTGGATAAACCATG
 GTTATATCTTCAAGCCCCACACCAGGACTCCCTGTTAAGACCACTGGAGCTGGAGAATGACACAGTAGG
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 CTCAGAAGTGGCGCCCCAGCAGCCTGTGAGATGGACTGCGAGGTTAACACGAGGATCTACTCTGTGT
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 TTCAGTGAGGTGGATGCCAACCTGATGCTGGCACTGTACAATAAATCCTTCTACACCCGAAAGGAATCCT
 ATGACTATCAGGCAGCCTGTGCCCTCAGCCTCCTGGAACTGGGTGCTGCACCCCGGGGTGTCTTTGT
 GCCCACCATTGCAGATTTCTTAACTTGGCCTGGTGGACTCTGCTGCCGCTGGTCTTATTCCAGCAG
 CTACTCTATGGTCTCATCTATCACAGCTGGTCCAGGCAGACCCGGCAGAAGCTGAGGGCAGCCCCGAGA
 CGCGCAGAGCAGCTGCGTCATGAAACAGACCCAGTACTACTTCCGGCTCGGTGAACGCATCTATAATGC
 CATCATTGACTGCGGAAACTGCAGCAGGCTGTTCCATGCGCAGAGACTGACCAACCAATCTCCTGTTG
 GTGGTGGCCGAGAAGCCGCTGTGCAGCCAGTGCAGGCGGGCCGGCTGCTGCAGAAGGAGACACACTCGG
 ACGGCCCGGAGCAGTGTGAGCTGGTGCAGAGACCGAGATACCGAAGAGGTCGCGACATCTGTTTTGACTA
 CAATGCGACGGAAGATACCTCAGACTGTGGCCGCGGAGCCTCCTTCCCTCCGTCGCTGGGCGTCTTGGTT
 TCCTTGCAGCTTTTGTCTCCTCCTGGCCTGCCACCTCGGCCGAGCCTCAAGTCCACTCCTTCGCTGCCT
 CTCGCCACCTCTGA

ACGGCTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-Mlul

ACCN:

NM_001174049

Insert Size:

3444 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_001174049.1](#), [NP_001167520.1](#)

RefSeq Size: 5512 bp

RefSeq ORF: 3444 bp

Locus ID: 56808

UniProt ID: [Q6PHS9](#)

Cytogenetics: 9 58.02 cM

Gene Summary: The alpha-2/delta subunit of voltage-dependent calcium channels regulates calcium current density and activation/inactivation kinetics of the calcium channel. Acts as a regulatory subunit for P/Q-type calcium channel (CACNA1A), N-type (CACNA1B), L-type (CACNA1C OR CACNA1D) and possibly T-type (CACNA1G).[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (4) lacks an alternate in-frame exon and uses an alternate in-frame splice site, compared to variant 1. The resulting isoform (4) lacks two internal segments, compared to 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 transcript alignments.