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Product datasheet for MC223738

Cacna2d2 (NM_001174050) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cacna2d2 (NM_001174050) 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:

>MC223738 representing NM_001174050
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGTGCCGGCTCGGACCTGCGGCGCTTCTTGGCCCGGCCCGGTGCGGACCGCTCGCCCCTGGCCCG
GTCGCGGCCCCCGGCCCTGCCCTGACCCCCGGGGCCCAGCGTCCGGGCCCGCACGCCCGCTCTTGCTCTT
GCTGCCGCCTCTGTTGCTTTTACCGCTGCTCACCGCCCCCGGCGCCTCTGCCTACAGCTTCCCCCAGCAG
CACACGATGCAGCACTGGGCCCGGCGCCTGGAGCAGGAGATTGACGGTGTGATGCGGATTTTTGGAGGCG
TGCAGCAGCTCCGAGAGATCTACAAGGACAATCGGAACCTGTTTGAAGTGCAGGAGAATGAACCACAGAA
ATTGGTGGAGAAAGTGGCAGGGGACATCGAGAGCCTGCTGGACAGGAAGGTCCAGGCCCTGAAGAGACTG
GCTGACGCTGCAGAGAATTTCCAGAAAGCCCATCGCTGGCAGGACAACATCAAGGAGGAAGACATCATGT
ACTACGATGCCAAGGCTGACGCCGAGCTGGATGACCCTGAGAGTGAAGATATGGAGAGGGGATCCAAGAC
CAGCGCCTTAAGGCTGGACTTCATCGAGGACCCAAACTTCAAGAACAAAGTCAACTATTCATACACGGCT
GTGCAGATCCCCACAGACATCTACAAAGGCTCTACCGTCATCCTCAATGAGCTTAACTGGACAGAGGCCC
TGGAGAACGTCTTCATTGAGAACCGTAGGCAAGACCCTACACTGTTGTGGCAAGTCTTTGGCAGTGCCAC
GGGAGTCACTCGCTATTACCCAGCCACACCATGGCGAGCCCCCAAGAAGATTGACCTGTACGATGTCAGA
AGACGACCCTGGTATATACAGGGGGCCTCATCACCCAAGGACATGGTCATCATTGTGGATGTGAGTGGCA
GCGTGAGCGGCCTGACTCTGAAGCTGATGAAGACGTCCGTCTGTGAGATGCTAGACACGCTCTCTGATGA
TGACTATGTGAACGTGGCCTCATTCAACGAGAAGGCGCAGCCTGTGTCTTGCTTCACACACCTGGTGCAG
GCCAATGTGCGTAACAAGAAGGTGTTCAAGGAAGCTGTGCAGGGCATGGTGGCCAAGGGCACCACAGGCT
ACAAGGCCGGCTTTGAGTATGCCTTTGACCAGCTACAGAATTCCAACATCACGCGGGCTAACTGCAATAA
GATGATCATGATGTTCACGGATGGGGGTGAGGATCGCGTGCAGGATGTCTTCGAAAAGTACAATTGGCCC
AATCGGACGGTACGTGTGTTCACGTTCTCCGTAGGACAGCATAACTATGATGTCACACCCTTGCAGTGGA
TGGCCTGTACTAACAAAGGTTACTATTTTGAGATCCCTTCCATCGGAGCCATCCGCATCAACACACAGGA
ATACCTGGATGTGCTGGGTAGGCCCATGGTACTGGCAGGCAAGGACGCCAAGCAAGTGCAATGGACAAAC
GTGTATGAAGATGCACTGGGGCTGGGGTTGGTGGTAACAGGAACTCTCCCTGTTTTCAACCTGACACAGG

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ATGGCCCTGGGGAAAAGAAGAACCAGTTAATCCTGGGTGTCATGGGCATCGATGTGGCCTTGAATGACAT
CAAAAGGCTGACTCCCAACTACACACTCGGCGCCAATGGCTATGTGTTCGCCATCGACCTGAACGGCTAC
GTGTTGCTACATCCCAATCTCAAGCCCCAGACTACCAACTTCCGGGAGCCTGTGACCTTGGACTTCCTGG
ACGCAGAGCTGGAAGATGAGAACAAGGAGGAGATCCGTCGCAGCATGATTGACGGCGACAAAGGCCACAA
GCAGATCAGAACCTTGGTCAAATCCCTGGATGAGAGGTACATAGACGAAGTGATTCGGAACTACACCTGG
GTGCCTATAAGGAGTACCAACTACAGCCTGGGGCTGGTGCTCCCACCCTACAGCACCTACTACCTCCAAG
CCAACCTCAGCGACCAGATCCTGCAGGTCAAGTATTTTGAGTTCCTGCTTCCCAGCAGCTTTGAGTCTGA
AGGACACGTTTTCATTGCTCCGAGAGAGTATTGCAAGGACTTGAACGCCTCGGACAACAACACCGAGTTC
CTGAAGAACTTCATCGAGCTCATGGAGAAAGTGACTCCGGACTCCAAGCAGTGTAATAACTTCCTTCTTC
ATAACTTGATTCTGGACACGGGCATTACACAGCAGTTAGTGGAACGTGTGTGGCGGGACCAAGATCTCAA
CACGTACAGCCTGCTAGCCGTATTTGCTGCCACTGATGGTGGCATCACACGTGTCTTCCCGAACAAGGCA
GCCGAAGACTGGACAGAAAACCCTGAACCCTTCAATGCCAGCTTCTACCGTCGCAGCCTGGATAACCATG
GTTATATCTTCAAGCCCCCACACCAGGACTCCCTGTTAAGACCACTGGAGCTGGAGAATGACACAGTAGG
TGTCCTCGTCAGCACAGCTGTGGAGCTCAGTCTAGGTCGTCGCACACTGAGGCCAGCAGTGGTGGGTGTC
AAACTGGACCTAGAGGCTTGGGCTGAAAAGTTCAAGGTGCTGGCCAGCAACCGTACCCATCAGGACCAAC
CTCAGAAGCAGTGCGGCCCCAGCAGCCACTGTGAGATGGACTGCGAGGTTAACAACGAGGATCTACTCTG
TGTCCTCATTGATGACGGAGGGTTCCTGGTGCTGTCAAACCAGAACCATCAGTGGGACCAGGTTGGCAGA
TTCTTCAGTGAGGTGGATGCCAACCTGATGCTGGCACTGTACAATAACTCCTTCTACACCCGAAAGGAAT
CCTATGACTATCAGGCAGCCTGTGCCCCTCAGCCTCCTGGGAACCTGGGTGCTGCACCCCGGGGTGTCTT
TGTGCCCACCATTGCAGATTTCCTTAACTTGGCCTGGTGGACCTCTGCTGCCGCCTGGTCCTTATTCCAG
CAGCTACTCTATGGTCTCATCTATCACAGCTGGTTCCAGGCAGACCCGGCAGAAGCTGAGGGCAGCCCCG
AGACGCGCGAGAGCAGCTGCGTCATGAAACAGACCCAGTACTACTTCGGCTCGGTGAACGCATCCTATAA
TGCCATCATTGACTGCGGAAACTGCAGCAGGCTGTTCCATGCGCAGAGACTGACCAACACCAATCTCCTG
TTCGTGGTGGCCGAGAAGCCGCTGTGCAGCCAGTGCGAGGCGGGCCGGCTGCTGCAGAAGGAGACACACT
CGGACGGCCCGGAGCAGTGTGAGCTGGTGCAGAGACCGAGATACCGAAGAGGTCCGCACATCTGTTTTGA
CTACAATGCGACGGAAGATACCTCAGACTGTGGCCGCGGAGCCTCCTTCCCTCCGTCGCTGGGCGTCTTG
GTTTCCTTGCAGCTTTTGCTCCTCCTGGGCCTGCCACCTCGGCCGCAGCCTCAAGTCCACTCCTTCGCTG
CCTCTCGCCACCTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001174050

Insert Size: 3447 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_001174050.1, NP_001167521.1
RefSeq Size:	5515 bp
RefSeq ORF:	3447 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 (5) lacks an alternate in-frame exon and uses two alternate in-frame splice sites, compared to variant 1. The resulting isoform (5) differs at three internal regions, 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.