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Product datasheet for MC223504

Cacna2d3 (NM_009785) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cacna2d3 (NM_009785) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cacna2d3
Synonyms:	alapha2delta3; Cacnad3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

Fully Sequenced ORF:

>MC223504 representing NM_009785
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCGGGCCGGGCTCGCTGTGCTGCGCGTCCCGGGGGGCCTCGGCGCTCCTAGCCACCGCGCTTCTCT
ACGCCGCTCTGGGGGACGTGGTGCGCTCCGAGCAGCAGATCCCGCTCTCCGTAGTGAAGCTGTGGGCCTC
CGCTTTTGGTGGGGAGATAAAATCCATCGCTGCCAAGTACTCGGGCTCCCAGCTTCTGCAAAAGAAATAC
AAAGAGTATGAGAAGGACGTTGCCATTGAAGAAATCGACGGTCTCCAACTGGTGAAGAAGTTGGCTAAAA
TCATGGAGGAGATGTTCCACAAGAAGTCCGAGGCAGTGAGGCGTCTTGTGGAGGCTGCAGAGGAGGCACA
CCTGAAACATGAATTTGATGCTGACTTGCAGTATGAATACTTCAATGCTGTGCTGATCAACGAGAGGGAC
AAAGACGGGAACTTTTTGGAATTGGGAAAGGAATTCATCTTAGCCCCCAATGACCATTTTAATAATTTGC
CTGTGAACATCAGTCTGAGTGATGTGCAAGTGCCAACGAACATGTACAACAAAGATCCTGCCATTGTCAA
TGGAGTGTATTGGTCTGAATCTCTAAACAAAGTTTTTGTGGATAACTTTGATCGGGATCCGTCTCTCATA
TGGCAGTACTTTGGAAGTGCAAAGGGCTTTTTCAGACAGTACCCAGGGATTAAATGGGAACCAGATGAGA
ATGGAGTCATTGCCTTTGACTGCAGGAACAGAAAATGGTACATCCAGGCAGCGACTTCTCCAAAGGATGT
TGTCATTTTGGTGGACGTCAGTGGGAGCATGAAAGGACTCCGCTTGACCATCGCCAAGCAAACAGTGTCC
TCAATACTGGATACTCTGGGTGATGATGACTTCTTCAACATCATCACGTATAACGAAGAGCTTCACTATG
TGGAACCTTGTCTGAACGGAACACTGGTTCAAGCTGACAGGACCAACAAGGAGCACTTCAGGGAGCATTT
GGACAAACTTTTTGCCAAAGGGATTGGAATGCTGGATATCGCACTGAACGAGGCCTTCAACATACTGAGC
GATTTCAACCACACTGGACAAGGAAGCATTTGCAGCCAGGCCATCATGCTCATAACTGATGGGGCAGTGG
ACACCTATGATACCATCTTTGCAAAATATAATTGGCCAGACCGAAAGGTTCGAATCTTTACTTACCTCAT
TGGACGGGAGGCTGCTTTTGCCGACAATCTCAAGTGGATGGCTTGTGCTAACAAAGGATTTTTCACCCAG
ATCTCCACCTTGGCTGATGTGCAGGAAAATGTCATGGAATACCTCCATGTGCTTAGCCGACCTAAAGTCA
TTGACCAGGAGCATGATGTGGTGTGGACCGAAGCGTACATTGACAGCACCCTCCCTCAGGCTCAAAAGCT
TGCTGATGATCAGGGCCTCGTCTTGATGACCACGGTGGCCATGCCTGTGTTTAGTAAGCAGAACGAAACT
AGGTCAAAGGGCATTCTTCTGGGTGTGGTTGGCACAGATGTCCCAGTTAAAGAGCTTCTGAAGACCATCC

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CCAAATACAAGTTAGGAATTCATGGTTACGCCTTCGCCATCACGAATAATGGATATATCCTGACGCACCC
GGAGCTCAGGCCACTGTATGAAGAAGGAAAAAAACGGAGGAAACCCAACTACAGTAGTGTGGATCTCTCT
GAAGTCGAGTGGGAAGACCGGGATGATGTGTTACGAAATGCCATGGTAAATCGGAAGACTGGGAAATTCT
CCATGGAAGTGAAGAAGACCGTGGACAAAGGGAAACGGGTTTTGGTGATGACCAATGACTACTACTATAC
AGACATCAAGGGTACTCCTTTCAGTTTAGGTGTGGCGCTCTCCAGGGGCCATGGGAAATACTTCTTCCGA
GGGAATGTAACCATTGAAGAAGGCCTCCATGACTTAGAACATCCTGACGTGTCCTTGGCAGATGAATGGT
CCTACTGCAACACTGACCTGCACCCAGAGCACCGCCATCTATCTCAACTGGAAGCCATTAAGCTCTACCT
CAAAGGCAAGGAGCCTCTGCTTCAATGTGACAAAGAATTGATTCAAGAAGTCCTTTTTGATGCTGTGGTG
AGCGCCCCTATTGAAGCCTATTGGACGAGCCTGGCCCTCAACAAATCTGAGAATTCTGACAAGGGTGTAG
AGGTCGCCTTCCTCGGCACTCGCACAGGCCTCTCAAGAATCAACCTGTTTGTGGGGGCCGAACAACTCAC
CAATCAGGACTTTCTGAAGGCTGGAGACAAAGAGAACATTTTTAATGCCGATCATTTCCCTCTCTGGTAC
AGAAGAGCTGCCGAGCAGATCGCAGGAAGCTTTGTCTATTCCATCCCCTTCAGCACAGGAACAGTCAACA
AAAGCAATGTGGTGACAGCAAGTACCTCCATCCAGCTCCTGGATGAGCGGAAATCTCCCGTGGTGGCAGC
TGTAGGCATTCAGATGAAACTTGAATTCTTCCAAAGGAAGTTCTGGACTGCCAGCAGACAGTGTGCCTCC
CTGGATGGCAAATGCTCCATAAGCTGCGATGACGAGACTGTGAACTGTTACCTTATAGACAATAACGGAT
TCATTCTGGTGTCTGAAGACTACACACAGACTGGAGATTTTTTTGGTGAGGTGGAAGGAGCTGTCATGAA
CAAGTTGTTAACAATGGGTTCCTTTAAAAGAATAACCTTGTACGACTACCAAGCCATGTGTAGAGCCAAC
AAGGAGAGCAGTGACAGTGCCCATGGACTTCTGGACCCCTATAAGGCCTTTCTCTCTGCAGCCAAGTGGA
TAATGACGGAACTTGTCTTGTTCCTGGTGGAGTTTAACCTGTGCAGTTGGTGGCACTCCGACATGACAGC
TAAAGCCCAGAAACTGAAACAGACCCTGGAACCTTGTGATACTGAATACCCAGCCTTTGTTTCTGAACGC
ACCATCAAGGAGACCACAGGGAACATTGCTTGCGAAGACTGCTCCAAGTCCTTCGTCATCCAGCAAATCC
CGAGTAGCAATCTGTTCATGGTGGTGGTGGACAGTAGCTGTCTCTGTGAGTCCGTGGCTCCTATAACCAT
GGCACCCATTGAAATCAGGTATAATGAATCCCTTAAGTGTGAACGGTTAAAGGCTCAGAAGATCAGACGA
CGTCCAGAATCCTGCCACGGCTTCCATCCTGAGGAGAATGCAAGAGAGTGTGGGGGTGCATCGAGTCTTC
AGGCCCAGGCGGCCTTGCTGCTGCTGCCCCTGGTTTCGAGTCTCTTCTCAAGGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_009785

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_009785.1, NP_033915.1

RefSeq Size:	3710 bp
RefSeq ORF:	3276 bp
Locus ID:	12294
UniProt ID:	Q9Z1L5
Cytogenetics:	14 A3
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) but not T-type (CACNA1G).[UniProtKB/Swiss-Prot Function]