

Product datasheet for MR222815

Cacna2d1 (NM_001110844) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cacna2d1 (NM_001110844) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cacna2d1
Synonyms:	Ca(v)alpha2delta1; Cac; Cacna2; Cchl; Cchl2a
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR222815 representing NM_001110844 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCTGCTGGCTGCCTGCTGGCCTTGACTCTGACTTTTCCAATCTGGGCTGATCGGCCCTCGAGCG
AGGAGCCCTTCCCTTCGCCGCTCACTATCAAGTCATGGGTGGACAAGATGCAAGAAGACCTTGTCACACT
GGCAAAAACAGCAAGTGGAGTGACTCAGCTTGCTGATATTTATGAAAAATACCAAGATTTGTATACTGTG
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CTAAGGCCCTGGTGCCTGGCTATGGAAGCAGAGAAAGTCCAAGCAGCCCACTAAGGAGGAAAGATT
TGCAAGCAATGAAGTTGCTACTATAATGCTAAGGATGATCTTGATCCTGAAAGAAATGAGAGTGAGCCA
GGCAGCCAACGGATTAACCTGTTTTATTGAAGATGCTAATTTTGGACGTGAGATATCCTATCAGCATG
CAGCGGTCCATATCCCACGGACATCTATGAGGGCTCAACCATAGTGTTAAACGAACTCACTGGACAAG
TGCCTTAGATGAAGTATCAAAGAAATCGAGACGAAGACCCTACACTGCTGTGGCAAGTGTGGCAGC
GCCACTGGCCTGGCCGATATTATCCAGCTTCTCCATGGGTGGATAATAGTAGAACTCAAACAAGATTG
ATCTATATGATGTACGCAGAAGACCATGGTACATCCAGGGAGCTGCATCCCAAGGACATGCTCATTCT
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TCCAGCACCTGGTTCAAGCGAATGTAAGAAATAAGAAGGTGTTGAAAGATGCCGTGAATAACATTACAGC
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AGAGCTAATTGCAATAAGATTATCATGTTATTCACGGATGGAGGAGAAGAGAGAGCCAGGAGATATTTG
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CAACGTCAGTGGCAATCTGAAAATAAGACAAACTTGAAGAACCAGTTGATTCTTGGTGTGATGGCGGT
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CAATTGATCCTAATGGCTATGTCTTATTGCATCCAAATCTTCAGCCAAAGAACCCCAAATCTCAGGAGCC
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence:

>MR222815 representing NM_001110844
 Red=Cloning site Green=Tags(s)

MAAGLLALTLFQSLIGPSSEEPFSPVTIKSWDKMQEDLVTLAKTASGVTQLADIYEKYQDLYTV
 EPNARQLVEIAARDIEKLLSNRSKALVRLAMEAEKVQAAHQWREDFASNEVVVYNAKDDLDPERNESEP
 GSQRIKPVFIEDANFGRQISYQHAHVHPTDIYEGSTIVLNELNWTLSALDEVFKRNRDEDPTLLWQVFGS
 ATGLARYYPASPWDNSRTPNKIDLYVRRRPWYIQGAASPKDMLILVDVSGSVSGLTLKLIRTSVSEML
 ETLSDDDFVNVASFNSAQDVSCFQHLVQANVRNKKVLDVANNITAKGITDYKKGFSFAFEQLLNYNVS
 RANCNKIIMLFTDGGEEAQQEIFAQYKNDKKVRVFTFSVGQHNDRGPIQWMACENKGYYYEIPSIGAIR
 INTQEYLDVLRPMVLADKAKQVQWTVNYLDALELGLVITGTLPVFNVTGQSENKTNLKNQLILGVMGV
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 KDSETLKPDNFEESGYTFIAPREYCNLKPSDNTEFLNFNEFIDRKTNNPSCNTDLINRILLDAGFT
 NELVQNYWSKQKNIKGVKARFVVDGGITRVYPKEAGENWQENPETYEDSFYKRSLEDNDNYVFTAPYFNK
 SGPGAYESGIMVSKAVELYIQGKLLKPAVVGKIDVNSWIENFTKTSIRDPCAGPVCDCKRNSDVMDCVI
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 SIADILQIGWWATAAAWSILQQLLLSLTFPRLLLEAVEMEEDFTASLSKQSCITEQTQYFFKNDTKSFSG
 LLDGCGNSRIFHVEKLMNTNLVFMVESKGTCPDTRLLMQAEQTSDDGPDPCDMVKQPRYRKGPDVCFDN
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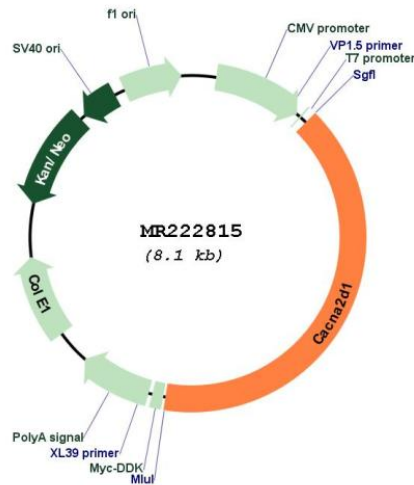
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001110844

ORF Size: 3273 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<ol style="list-style-type: none">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:	<u>NM_001110844.1, NP_001104314.1</u>
RefSeq Size:	7436 bp
RefSeq ORF:	3276 bp
Locus ID:	12293
UniProt ID:	<u>O08532</u>
Cytogenetics:	5 6.56 cM
MW:	123.7 kDa
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]