

## Product datasheet for MR222812

### Cacna2d1 (NM\_009784) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cacna2d1 (NM\_009784) 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:** >MR222812 representing NM\_009784  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGGATCGCC

ATGGCTGCTGGCTGCCTGCTGGCCTTGACTCTGACACTTTCCAATCTGGGCTGATCGGCCCTCGAGCG  
 AGGAGCCCTTCCCTTCGCCGCTCACTATCAAGTCATGGGTGGACAAGATGCAAGAAGACCTTGTCACACT  
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 GATGTGCTCTGGAAGATATCAAGAGATTGACACCACGTTTTACTCTGTCCCAATGGCTACTATTTTG



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CAATTGATCCTAATGGCTATGTCTTATTGCATCCAAATCTTCAGCCAAAGAACCCCAAATCTCAGGAGCC  
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR222812 representing NM\_009784  
 Red=Cloning site Green=Tags(s)

MAAGLLALTLFQSLIGPSSEEPFSPVTIKSWDKMQEDLVTLAKTASGVTQLADIYEKYQDLYTV  
 EPNNARQLVEIAARDIEKLLSNRSKALVRLAMEAEKVQAAHQWREDFASNEVVVYNAKDDLDPERNESEP  
 GSQRIKPVFIEDANFGRQISYQHAHVHIPTDIYEGSTIVLNELNWTLSALDEVFKRNRDEDPTLLWQVFGS  
 ATGLARYYPASPWVDNSRTPNKIDLYDVRRRPWYIQGAASPKDMLILVDVSGSVSGLTLKLIKRTSVSEML  
 ETLSDDDFVNVASFNSAQDVSCFQHLVQANVRNKKVLDKAVNNITAKGITDYKKGFSFAFEQLLNYNVS  
 RANCNKIIMLFTDGGEEAQQEIFAQYKNDKKVRVFTFSVGQHNDRGPIQWMACENKGYYYEIPSIGAIR  
 INTQEYLDVLRPMVLADKAKQVQWNTNLYLDALELGLVITGTLPVFNVTGQSENKTNLKNQLILGVMGV  
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 SGIMVSKAVELYIQGKLLKPAVVGKIDVNSWIENFTKTSIRDPCAGPVCCKRNSDVMDCVILDDGGFL  
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 SRIFHVEKLMNTNLVFMVSEKGTCPCDTRLLMQAEQTSVSDGPDPCDMVKQPRYRKGPVDFDNNVLEDYT  
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

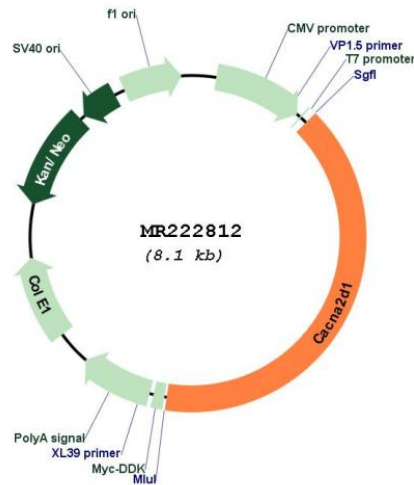
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_009784

ORF Size: 3252 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_009784.2, NP_033914.1</u>
<b>RefSeq Size:</b>	7415 bp
<b>RefSeq ORF:</b>	3255 bp
<b>Locus ID:</b>	12293
<b>UniProt ID:</b>	<u>O08532</u>
<b>Cytogenetics:</b>	5 6.56 cM
<b>MW:</b>	123 kDa
<b>Gene Summary:</b>	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]