

Product datasheet for **MC225346**

Cacna1g (NM_001177890) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cacna1g (NM_001177890) Mouse Untagged Clone
Tag: Tag Free
Symbol: Cacna1g
Synonyms: a1G; alpha-1G; Cav3.1d; mKIAA1123; [a]1G
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC225346 representing NM_001177890
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGATGAGGAAGAGGATGGAGCGGGCGCCGAGGAGTCGGGACAGCCCCGGAGCTTCACGCAGCTCAACG
 ACCTGTCTGGGGCCGGGGCCGGCAGGGGCCGGGTCGACGGAAAAGACCCGGGACGCGGACTCCGA
 GCGGAGGGGCTGCCCTACCCGGCGCTGGCCCCGGTGGTTTTCTTCTACTTGAGCCAGGACAGCCGCCCG
 CGGAGCTGGTGTCTCCGCACGGTCTGTAACCCGTGGTTCGAGCGAGTCAGCATGCTGTTATTCTCCTCA
 ACTGTGTGACTCTGGGTATGTTCAAGCCGTGTGAGGACATTGCCTGTGACTCCCAACGCTGCCGGATCCT
 GCAGGCCTTCGACGACTTCATCTTTGCCTTCTTTGCTGTGAAATGGTGGTGAAGATGGTCGCTTTGGGT
 ATCTTTGGGAAGAAATGTTACCTGGGAGACACTTGAACCCGGCTTGACTTTTTATCGTCATTGCTGGGA
 TGCTGGAGTACTCGTGGACCTGCAGAAATGTCAGCTTCTCCGCAGTCAGGACAGTCCGTGTGCTGCGACC
 GCTCAGGGCCATTAACCGGGTCCCAGCATGCGCATTCTCGTCACATTACTGCTGGATACCTTGCATATG
 CTGGGCAATGCTCTGCTCTGTTTCTCGTCTTTTTCATCTTTGGCATCGTTGGTGTTCAGCTGTGGG
 CAGGGCTACTTCGAAACCGATGCTTCTCCCTGAGAATTCAGCCTCCCGCTGAGTGTGGACTTGGAGCC
 TTAACACAGACAGAGAATGAGGACGAGAGCCCTTTCATCTGCTCAGCCTCGGGAGAACGGCATGCGA
 TCCTGCAGGAGCGTGCCACACTGCGCGGGGAAGGCGGTGGTGGTCCACCCTGCGGTCTGGACTATGAGG
 CCTATAACAGTTCAGCAATACCACCTGTGTAACCTGGAACCAATACTATAACCACTGCTCTGCAGGCGA
 GCACAACCCCTTCAAAGGCGCCATCAACTTTGACAACATTGGCTATGCCTGGATCGCCATCTTCCAGGTC
 ATCACACTGGAGGGCTGGTTCGACATCATGTACTTTGTGATGGATGCTATTCTTCTACAACCTCATCT
 ACTTCATTCTTCTCATCATCTTCTGAGACCAAGCAACGGGAGAGTCAGCTGATCGGGAGCAGCGTGT
 ACGATTCTGTCCAATGCTAGCACCTGGCAAGCTTCTGAGCCAGGCAGCTGCTATGAGGAGCTTCTC
 AAGTACCTGGTGTACATCTCCGCAAAGCAGCCCGCAGGCTGGCCAGGTCTCTAGGGCTGTAGGCGTGC
 GGGCTGGGTTGCTCAGCAGCCCAGTGGCCCGTGGTGGGAGGAGCCCAGCCAGTGGCAGCTGCTCTCG
 TTCACACCGTCTGTCTGTCCACCACCTGGTCCACCACCATCACCACCACCATCACCCTACCACCTG
 GGAATGGGACGCTCAGAGTTCCCCGGCCAGCCAGAGATCCAGGACAGGGATGCCAATGGGTCGCCGT



[View online >](#)

GGCTCATGCTGCCACCACCCTCTACCCCACTCCCTCTGGGGCCCTCCGAGGGTGC GGAGTCTGTACA
 CAGTTTACCATGCTGACTGCCACTTGGAGCCAGTCCGTTGCCAGGCGCCCCCTCCAGGTCCCATCG
 GAGGCATCTGGCAGGACTGTGGGTAGTGGGAAGGTATACCCCACTGTGCATACCAGCCCTCCACCAGAGA
 TGCTGAAGGATAAGGCACTAGTGGAGGTGGCCCCAGCCCTGGGCCCCCACCCTCACCAGCTTCAACAT
 CCCACCTGGGCCCTTTCAGCTCCATGCACAAGCTCCTGGAGACACAGAGTACGGGAGCCTGCCATAGCTCC
 TGCAAAATCTCCAGCCCTTGTCTCAAGGCAGACAGTGGAGCCTGTGGGCCGGACAGTTGTCCCTACTGTG
 CCCGGACAGGAGCAGGGGAGCCAGAGTCCGCTGACCATGAAATGCCTGACTCAGACAGTGGAGCTGTGA
 TGAGTTACACAGGACGCTCAGCACAGCGACCTCCGGGATCCCCACAGACGGCGACGGCCGAGCCTGGGC
 CCAGATGCAGAGCCTAGTTCTGTGCTGGCCTTCTGGAGGCTGATCTGCGACACATTCCGGAAGATCGTAG
 ATAGCAAATACTTTGGCCGGGAATCATGATCGTATCCTGGTCAATACCCTCAGCATGGGCATCGAGTA
 CCACGAGCAGCCGAGGAGCTCACCAACGCCCTGGAAATCAGCAACATCGTCTTACCAGCCTCTTCGCC
 TTGGAGATGCTGCTGAAGCTGCTCGTCTACGGTCCCTTCGGCTACATTAAGAATCCCTACAACATCTTTG
 ATGGCGTCATTGTGGTCATCAGCGTGTGGGAGATTGTGGGCCAGCAGGGAGGTGGCTGTCGGTGTGCG
 GACCTTCCGCCTGATGCGGGTGTGAAGCTAGTTTCGCTTCTGCCGCACTGCAGCGGCAGCTCGTGGTG
 CTCATGAAGACCATGGACAACGTGGCCACCTTCTGCATGTGCTCATGCTTTCATCTTTCATCTTACGA
 TCCTGGGCATGCACCTTTTTGGTTGCAAGTTTCGCATCTGAACGGGATGGGGACACGTTGCCAGACGGAA
 GAATTTTGACTCCCTGCTCTGGGCCATTGTCACTGTCTTTCAGATTCTGACTCAGGAAGACTGGAATAAA
 GTCCTTTACAACGGCATGGCCTCCACGTCATCTTGGGCTGCTCTTTACTTCATCGCCCTCATGACTTTTG
 GCAACTACGTGCTCTTTAACCTGCTTGTGCGCAATTCTCGTGGAGGGTTTCCAGGCAGAGGGAGATGCCAC
 CAAGTCTGAGTCAGAGCCTGATTTCTTTTCGCCAGTGTGGATGGTGTATGGGGACAGGAAGAAGCGCTTG
 GCCCTGGTGGCCTTGGGAGAACACTCGGAACTACGAAAGAGCCTTTTCCACCTCTCATCATCCACACAG
 CTGTACACCGATGTCACTGCCAAGAGCTCCAGCACAGGTGTGGGGGAAGCACTGGGCTCTGGCTCTCG
 CCGCACCAAGTAGCAGTGGTCCGCTGAGCCTGGAACCTGCCATCATGAGATGAAATCACCGCCAAGTCC
 CGAAGCTCCCCGACAGTCCCTGGAGCGCAGCAAGCAGCTGGACCAGCAGGCGCTCCAGCCGGAACAGCC
 TGGGCCGGGCCCCAGCCTGAAGCGTAGGAGCCCAAGCGGGGAGCGGAGGTCCCTGCTGTCTGGAGAGGG
 TCAGGAGAGCCAGGATGAGGAGGAGAGTTCAGAAGAGGACCAGGGCCAGCCAGCAGGCAGTATCATCGC
 CACAGGGGTTCTTGGAACGTGAGGCCAAGAGTTCCTTTGACCTGCCTGACACCTGCAGGTGCCGGGGC
 TTCATCGAACAGCCAGCGGTCCGAGCTCTGCCTCTGAACACCAAGACTGTAAATGGCAAGTCGGCTTCAGG
 GCGTTTGGCCCGACCTGCGGGCTGATGACCCCCACTGGATGGGGATGATGGCGATGATGAGGGCAAC
 CTGAGCAAAGGGGAACGCTTACGAGCCTGGTCCGAGCCCGCTCCCTGCCTGTTGCCGAGAGCGAGATT
 CCTGGTCTGCCTATATCTTCCCTCCCAGTCAAGTTCCTGCTCCTGTGTACCCGATCATACCCACAA
 GATGTTTGACCATGTGGTCTCTGCATCATCTTCTCAACTGTATCACCATCGCTATGGAGCGCCCCAAA
 ATTGACCCCCACAGCGCTGAACGCATCTTCTGACCTCTCCAACACATCTTACGGCAGTCTTCTCTGG
 CTGAAATGACAGTGAAGGTGGTGGCACTGGGCTGGTGTCTTTGGGGAGCAGGCCTACCTGCGCAGCAGCTG
 GAACGTGCTGGACGGCTTGTGGTGTCTCATCTCTGTATCGACATCCTGGTGTCCATGGTCTCTGACAGC
 GGCACCAAGATTCTCGCATGCTGAGGGTGTGCGGCTGCTGCGGACCCTACGTCCACTCAGGGTCATCA
 GCCGGGCCAGGGGCTGAAGCTGGTGGTAGAGACTCTGATGTATCCCTCAAACCCATTGGCAACATTGT
 GGTCTGTGCTGTGCCTTCTTTCATATTTTGGAACTTCTGGGGTGCAGCTCTTCAAAGGGAAAGTCTTTC
 TCGTGTACAGGGTGAAGACACCAGGAACATCACTAACAAAGTCCGACTGTGCTGAGGCCAGTACCAGTGGG
 TCCGGCACAAAGTACAACCTTGGACAACCTGGGCCAGGCTCTGATGTCCTGTTTGTGCTGGCCTCCAAGGA
 TGCTGGGTTGACATCATGTATGATGGACTGGATGCTGTGGGAGTGGACCAGCAGCCATCATGAACCAC
 AACCTTGGATGCTGCTACTTTCATCTCCTTCTCCTCATCGTGGCCTTCTTCTGCTGAAACATGTTTG
 TGGGCGTGGTGGTGGAGAACTTCCATAAGTGCAGGCAGCACCAGGAGGAGGAGGCGCGGCGGGGA
 GGAGAAGCGACTAAAGAGGCTGGAGAAAAGAGAAGGAATCTAATGTTGGACGATGTAATTGCTTCCGGC
 AGCTCAGCCAGCGCTGCGTCAGAAGCCAGTGCAAACCTACTACTCTGACTACTCGCGCTTCCGGCTCC
 TCGTCCACCACCTGTGTACCAGCCACTACCTGGACCTTTCATCACTGGTGTATCGGGTGAATGTGGT
 CACGATGGCCATGGAACATTACCAGCAGCCCCAGATCCTGGACGAGGCTCTGAAGATCTGCAACTACATC
 TTTACCGTCATCTTTGTCTTGGAGTCAGTATTCAAACTTGTGGCCTTCCGGCTTCCGCCGTTCTTCCAGG
 ACAGGTGGAACAGCTGGACCTGGCTATTGTGCTTCTGTCCATCATGGGCATCACGCTGGAAGAGATTGA
 GGTCAATGCTTCACTGCCATCAACCCACCATCATCCGTATCATGAGGGTGTCCGCATTGCTCGAGTT
 CTGAAGCTGTTGAAGATGGCTGTGGCATGCGGGCACTGCTGGACACGGTGTGACAGGCCCTGCCCCAGG
 TGGGGAACCTGGGACTTCTTTCATGCTATTATTTTTCATCTTTCGAGCTCTGGGCGTGGAGCTCTTTGG

```

AGACCTGGAGTGTGATGAGACACACCCTTGTGAGGGCTTGGGCCGGCATGCCACCTTTAGGAACTTTGGT
ATGGCCTTTCTGACCCTCTCCGAGTCTCCACTGGTGACAACCTGGAATGGTATTATGAAGGACACCCTCC
GGGACTGTGACCAGGAGTCCACCTGCTACAACACCGTCACTCACCCATCTACTTCGTGTCTTCGTGTCT
GACGGCCAGTTTGTGCTGGTCAACGTGGTCAAGCCGTGCTGATGAAGCACCTGGAAGAGAGCAACAAA
GAGGCCAAGGAGGAGCGGAGTTGGAGGCGGAGCTGGAGCTAGAGATGAAGACACTCAGCCCGCAGCCCC
ACTCCCCGCTGGCAGCCCTTCCCTCTGGCCTGGGGTGGAAAGTGTCAATAGCCCTGACAGCCCTAAGCC
TGGGGCTCCACACACCACGGCCACATTGGAGCAGCCTTTCAGGCTTCCCTTGAGCACCCACCGATG
GTACCTCACACTGAGGAGGGGCCAGTCCCCTAGGACCAGACCTGCTGACTGTGAGGAAGTCTGGTGCA
GCCGGACACACTCTTGCCCAATGACAGCTACATGTGCCCAATGGGAGCACTGCCGAGAGATCCCTAGG
ACACAGGGGCTGGGGCTCCCCAAAGCCAGTCAGGCTCCATCTTGTCTGTTCACTCCCAACCAGCAGAC
ACCAGTGCATCTACAGCTTCCCAAAGATGCACACTATCTGCTCCAGCCTCATGGGGCTCCACCTGGG
GCGCCATCCCTAAACTACCCCACTGGCCGCTCCCTCTGGCTCAGAGGCCTCTCAGGCAGGAGCAGC
AATAAGGACTGACTCCCTGGACGTGCAGGGCTGGGTAGCCGGGAAGACCTGTTGTCAGAGGTGAGTGGG
CCCTCTGCCCTCTGACCCGCTCCTCATCTTCTGGGGCGGGTCGAGCATCCAGGTGCAGCAGCGCTCCG
GCAGCCAGAGCAAAGTCTCCAAGCACATCCGCCTGCCAGCCCTTGCCAGGCCTGGAACCCAGCTGGGC
CAAGGACCCTCAAGAGACCAGAAGCAGCTTAGAGCTGGACACGGAGCTGAGCTGGATTTCAAGGAGACCTC
CTGCCAGCAGTCAGGAAGAACCCTGTCCCCACGGGACTTGAAAAATGCTACAGTGTAGAGGCCCAGA
GCTGCCGGCGCAGGCCTGGGTCCTGGCTAGACGAACAGAGGAGACTCCATCGTGTGAGCTGCCTGGA
CAGCGGCTCCAGCCCGCCTATGTCCAAGCCCTCAAGCCTCGGGGGCCAACTCTTGGGGGCCCTGGG
AGCCGGCTAAGAAAAAACTCAGCCACCAGTATCTCTATAGACCCCGGAGAGCCAGGGCCCTCGGC
CCCCATGCAGTCTGGCGTCTGCCTCAGGAGGAGGGCGCCGGCCAGTACTCGAAGGATCCCTCGGCCTC
CAGCCCCCTTGACAGCACGGCTGCCTCACCCCTCCCAAAGAAAGATGCGCTGAGTCTCTCTGTTTGTCT
TCTGACCAACAGACCTGGATCCCTGA
    
```

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001177890
- Insert Size:** 6747 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_001177890.1, NP_001171361.1
- RefSeq Size:** 8097 bp
- RefSeq ORF:** 6747 bp

Locus ID: 12291
Cytogenetics: 11 D