

## Product datasheet for MC225249

### Cacna1g (NM\_001177888) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cacna1g (NM_001177888) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cacna1g
Synonyms:	a1G; alpha-1G; Cav3.1d; mKIAA1123; [a]1G
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC225249 representing NM_001177888 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGATGAGGAAGAGGATGGAGCGGGCGCCGAGGAGTCGGGACAGCCCCGGAGCTTCACGCAGCTCAACG  
ACCTGTCTGGGGCCGGGGCCGGCAGGGGCCGGGGTCGACGGAAAAGACCCGGGAGCGCGGACTCCGA  
GGCGGAGGGGCTGCCCTACCCGGCGCTGGCCCCGGTGGTTTTCTTCTACTTGAGCCAGGACAGCCGCCG  
CGGAGCTGGTGTCTCCGACGGTCTGTAACCCGTGGTTCGAGCGAGTCAGCATGTGTTATTCTCTCA  
ACTGTGTGACTCTGGGTATGTTCAAGCCGTGTGAGGACATTGCCTGTGACTCCCAACGCTGCCGGATCCT  
GCAGGCCCTTCGACGACTTCATCTTTGCCTTCTTTGCTGTGAAAATGGTGGTGAAGATGGTCGCTTTGGGT  
ATCTTTGGGAAGAAATGTTACCTGGGAGACACTTGAACCCGGCTTGACTTTTTATCGTCATTGCTGGGA  
TGCTGGAGTACTCGCTGGACCTGCAGAATGTCAGCTTCTCCGAGTCAGGACAGTCCGTGTGCTGCGACC  
GCTCAGGGCCATTAACCGGGTGCCGAGCATGCGCATTCTCGTCACATTACTGCTGGATACCTTGCCATG  
CTGGGCAATGCTCTGCTCTGTTTCTTCGTCTTTTTCATCTTTGGCATCGTTGGTGTTCAGCTGTGGG  
CAGGGTACTTCGAAACCGATGCTTCTCCCTGAGAATTCAGCCTCCCGCTGAGTGTGGACTTGGAGCC  
TACTACCAGACAGAGAATGAGGACGAGAGCCCCCTTCACTGCTCAGCCTCGGAGAACGGCATGCGA  
TCCTCAGGAGCGTGCCACACTGCGCGGGGAAGCGGTGGTCCACCCTGCGGTCTGGACTATGAGG  
CCTATAACAGTTCAGCAATACCACCTGTGTCACTGGAACCAATACTATAACCACTGCTCTGCAGGCGA  
GCACAACCCCTTCAAAGGCGCCATCAACTTTGACAACATTGGCTATGCCTGGATCGCCATCTTCCAGGTC  
ATCACACTGGAGGGCTGGGTCGACATCATGTACTTTGTGATGGATGCTCATTCTTCTACAACCTCATCT  
ACTTCACTTCTTCTCATCATCGTGGGCTCCTTCTCATGATCAACCTGTGCCTGGTGGTGTGCGCCACACA  
GTTCTCTGAGACCAAGCAACGGGAGAGTCAGCTGATGCGGGAGCAGCGTGTACGATTCTGTCCAATGCT  
AGCACCTGGCAAGCTTCTCTGAGCCAGGACAGTGTATGAGGAGCTTCAAGTACCTGGTGTACATCC  
TCCGAAAGCAGCCCGCAGGCTGGCCAGGCTCTAGGGCTGTAGGCGTGCAGGCTGGGTTGCTCAGCAG  
CCCAGTGGCCCGTGGTGGCAGGAGCCCCAGCCAGTGGCAGCTGCTCTCGTTCACACCGTCTGTCTCT



[View online >](#)

GTCCACCACCTGGTCCACCACCATCACCACCACCATCACCCTACCACCTGGGTAAATGGGACGCTCAGAG  
 TTCCCCGGGCCAGCCAGAGATCCAGGACAGGGATGCCAATGGGTCCCGCTGGCTCATGCTGCCACCACC  
 CTCTACCCCACTCCCTCTGGGGGCCCTCCGAGGGGTGCGGAGTCTGTACACAGCTTCTACCATGCTGAC  
 TGCCACTTGGAGCCAGTCCGTTGCCAGGCGCCCTCCAGGTCCCATCGGAGGCATCTGGCAGGACTG  
 TGGGTAGTGGGAAGGTAACCCACTGTGCATACCAGCCCTCCACCAGAGATGCTGAAGGATAAGGCACT  
 AGTGGAGGTGGCCCCAGCCCTGGGCCCCACCTCACCAGCTTCAACATCCCACCTGGGCCCTCAGC  
 TCCATGCACAAGCTCCTGGAGACACAGAGTACGGGAGCCTGCCATAGCTCCTGCAAAATCACCAGCCCT  
 GCTCCAAGGCAGACAGTGGAGCCTGTGGCCGGACAGTTGTCCCTACTGTGCCCGACAGGACAGGGGA  
 GCCAGAGTCCGCTGACCATGAAATGCCTGACTCAGACAGTGAGGCTGTGTATGAGTTCACACAGGACGCT  
 CAGCACAGCGACCTCCGGGATCCCACAGACGGCGACGGCCGAGCCTGGGCCAGATGCAGAGCCTAGTT  
 CTGTGCTGGCCTTCTGGAGGCTGATCTGCGACACATTCCGGAAGATCGTAGATAGCAAATACTTTGGCCG  
 GGGAAATCATGATCGTATCCTGGTCAATACCCTCAGCATGGGCATCGAGTACCACGAGCAGCCCGAGGAG  
 CTCACCAACGCCCTGAAATCAGCAACATCGTCTTACCAGCCTCTTCCGCTTGGAGATGCTGCTGAAGC  
 TGCTCGTCTACGGTCCCTTCGGTACATTAAGAATCCCTACAACATCTTTGATGGCGTCATTGTGGTCAT  
 CAGCGTGTGGGAGATTGTGGCCAGCAGGGAGGTGGCCTGTCCGTGCTGCGGACCTTCCGCTGATGCGG  
 GTGCTGAAGCTAGTTCGCTTCTGCCGGCACTGCAGCGGAGCTCGTGGTCTCATGAAGACCATGGACA  
 ACGTGGCCACCTTCTGCATGCTGCTCATGCTTTCATCTTTCAGCATCCTGGGCATGCACCTTTT  
 TGGTTGCAAGTTCGCATCTGAACGGGATGGGGACAGTTCAGCAGACCGGAAGAAATTTTACTCCCTGCTC  
 TGGGCCATTGTCACTGTCTTTCAGATTCTGACTCAGGAAGACTGGAATAAAGTCTTTTACAACGGCATGG  
 CCTCCACGTCACTTGGGCTGCTCTTACTTATCGCCCTCATGACTTTTGGCAACTACGTGCTCTTTAA  
 CCTGCTTGTGCCATTCTCGTGGAGGTTTCCAGGCAGAGGGAGATGCCACCAAGTCTGAGTCAGAGCCT  
 GATTTCTTTTCGCCAGTGTGGATGGTGTGGGACAGGAAGAAGCGCTTGGCCCTGGTGGCCTTGGGAG  
 AACCTCGGAACACGAAAGAGCCTTTTGGCCCTCTCATCATCCACACAGCTGCTACACCGATGCTACT  
 GCCAAGAGCTCCAGCACAGGTGTGGGGAGCAGTGGGCTCTGGCTCTCGCCGACACAGTAGCAGTGGG  
 TCCGCTGAGCCTGGAACGCCCATCATGAGATGAAATCACCGCCAAGTCCCGAAGCTCCCGCACAGTC  
 CCTGGAGCGCAGCAAGCAGCTGGACCAGCAGGCGCTCCAGCCGGAACAGCCTGGGCCGGGCCCCAGCCT  
 GAAGCGTAGGAGCCCAAGCGGGAGCGGAGGTCCCTGCTGTCTGGAGAGGGTCAGGAGAGCCAGGATGAG  
 GAGGAGAGTTCAGAAGAGGACCGGGCCAGCCAGCAGGCAGTGCATCGCCACAGGGGTTCTTGGAAC  
 GTGAGGCCAAGAGTTCCTTTGACCTGCCTGACACCCTGCAGGTGCCCGGGCTTATCGAACAGCCAGCGG  
 TCGGAGCTCTGCCTCTGAACACCAAGACTGTAATGGCAAGTCCGCTTCCAGGGCTTGGCCCGACCCCTG  
 CGGGCTGATGACCCCACTGGATGGGGATGATGGCGATGATGAGGGCAACCTGAGCAAAGGGGAACGCT  
 TACGAGCCTGGTCCGAGCCCGCTCCCTGCCTGTTGCCGAGAGCGAGATTCTGTGCTGCTATATCTT  
 CCCTCCCAAGTCAAGTTCCTGTCTCCTGTGTCACCGGATCATCACCACAAGATGTTTGACCATGTGGTC  
 CTGTCATCATCTTCTCAACTGTATCACCATCGCTATGGAGCGCCCAAAATTGACCCCAACAGCGCTG  
 AACGCATCTTCTGACCTCTCCAACATACATCTTACGGCAGTCTTCTGGCTGAAATGACAGTGAAGGT  
 GGTGGCACTGGGCTGGTCTTGGGGAGCAGGCCACCTGCGCAGCAGCTGGAACGTGCTGGACGGCTTG  
 CTGGTGCATCTCTGTATCGACATCCTGGTGTCCATGGTCTCTGACAGCGGCCAAGATTCTCGGCA  
 TGCTGAGGGTGTGCGGCTGTGCGGACCCTACGTCCACTCAGGGTCATCAGCCGGGCCAGGGGCTGAA  
 GCTGGTGGTAGAGACTCTGATGTCATCCCTCAAACCCATTGGCAACATTGGTGCATCTGCTGTGCCTT  
 TTCATCATTTTTGGAATTCTGGGGTGACGCTTCAAAGGGAAGTTCTCGTGTGTGAGGGTGAAGACA  
 CCAGGAACATCACTAACAAGTCCGACTGTGCTGAGGCCAGTTACCGTGGTCCGGCACAAGTACAACCT  
 TGACAACCTGGGCCAGGCTCTGATGTCCCTGTTGTGCTGGCCTCAAGGATGGCTGGGTTGACATCATG  
 TATGATGGACTGGATGCTGTGGAGTGGACCAGCAGCCATCATGAACCACAACCTTGGATGCTGCTCT  
 ACTTCATCTCCTCCTCATCGTGGCCTTCTCGTCTGAACATGTTTGTGGCGTGGTGGTGGAGAA  
 CTTCCATAAGTGCAGGCAGCACCAGGAGGAGGAGGCGCGGGGGAGGAGAAGCGACTAAAGAGG  
 CTGGAGAAAAAGAGAAGGAATCTAATGTTGACAGATGTAATTGCTTCCGGCAGCTCAGCCAGCGCTGCT  
 CAGAAGCCAGTCAAACCTACTACTGACTACTCGCGCTTCCGGCTCCTCGTCCACCACCTGTGTAC  
 CAGCCACTACCTGGACCTTTCATCACTGGTGTATCGGGCTGAATGTGGTACAGATGGCCATGGAACAT  
 TACCAGCAGCCCCAGATCCTGGACGAGGCTCTGAAGATCTGCAACTACATCTTTACCGTCATCTTTGCT  
 TGGAGTCAGTATCAAACCTTGTGGCCTTCCGCTTCCGCGGTTCTTCCAGGACAGGTGGAACCAGCTGGA  
 CCTGGCTATTGTGCTTCTGTCCATCATGGGCATCACGCTGGAAGAGATTGAGGTCAATGCTTCACTGCC  
 ATCAACCCACCATCATCCGATCATGAGGGTGTCCGATTGCTCGAGTCTGAAGCTGTTGAAGATGG

CTGTGGGCATGCGGGCACTGCTGGACACGGTATGCAGGCCCTGCCCCAGGTGGGGAACCTGGGACTTCT  
 CTTTCATGCTATTATTTTTCATCTTTGCAGCTCTGGGCGTGGAGCTCTTTGGAGACCTGGAGTGTGATGAG  
 ACACACCCCTTGTGAGGGCTTGGGCCGGCATGCCACCTTTAGGAACCTTTGGTATGGCCTTTCTGACCTCT  
 TCCGAGTCTCCACTGGTGAACAACCTGGAATGGTATTATGAAGGACACCCCTCCGGGACTGTGACCAGGAGTC  
 CACCTGCTACAACACCGTCATCTACCCATCTACTTCGTGTCCTTCGTGCTGACGGCCAGTTTGTGCTG  
 GTCAACGTGGTCATAGCCGTGCTGATGAAGCACCTGGAAGAGAGCAACAAGAGGCCAAGGAGGAGGCGG  
 AGTTGGAGGCGGAGCTGGAGCTAGAGATGAAGACACTCAGCCCGCAGCCCACTCCCGCTGGGCAGGCC  
 CTTCTCTGGCCTGGGGTGAAGGTGTCAATAGCCCTGACAGCCCTAAGCCTGGGGCTCCACACACCAG  
 GCCACATTGGAGCAGCCTCTTCAGGCTTCTCCCTTGAGCACCCACGATGGTACCTCACACTGAGGAGG  
 GGCCAGTCCCCTAGGACCAGACCTGCTGACTGTGAGGAAGTCTGGTGTGAGCCGGACACTCTCTGCC  
 CAATGACAGCTACATGTGCCGAATGGGAGCACTGCCGAGAGATCCCTAGGACACAGGGGCTGGGGGCTC  
 CCCAAAGCCAGTCAGGCTCCATCTTGTCTGTTCACTCCCAACCAGCAGACACCAGCTGCATCCTACAGC  
 TTCCAAAGATGCACACTATCTGCTCCAGCCTCATGGGGCTCCACCTGGGGCGCCATCCCTAAACTACC  
 CCCACCTGGCCGCTCCCCTCTGGCTCAGAGGCCTCTCAGGCGCCAGGCAGCAATAAGGACTGACTCCCTG  
 GACGTGCAGGGCCTGGGTAGCCGGAAGACCTGTTGTGAGAGGTGAGTGGGCCCTCTGCCCTTGACCC  
 GCTCCTCATCCTTCTGGGGCGGGTGCAGCATCCAGGTGCAGCAGCGCTCCGGCAGCCAGAGCAAAGTCTC  
 CAAGCACATCCGCTGCCAGCCCTTGCCAGGCTGGAACCCAGCTGGGCCAAGGACCCCTCAAGAGACC  
 AGAAGCAGCTTAGAGCTGGACACGGAGCTGAGCTGGATTTAGGAGACCTCTGCCAGCAGTCAGGAAG  
 AACCCCTGTCCCACGGGACTTGAAAAATGCTACAGTGTAGAGGCCAGAGCTGCCGGCGCAGGCTGG  
 GTCCTGGCTAGACGAACAGAGGAGACTCCATCGCTGTGAGTGCCTGGACAGCGGCTCCAGCCCGC  
 CTATGTCCAAGCCCTCAAGCCTCGGGGGCAACCTCTTGGGGCCCTGGGAGCCGGCTAAGAAAAAC  
 TCAGCCACCCAGTATCTCTATAGACCCCGGAGAGCCAGGGCCCTCGGCCCATGCAGTCTGGCGT  
 CTGCCTCAGGAGGAGGGCGCCGCGCAGTACTCGAAGGATCCCTCGGCCCTCCAGCCCTTGACAGCAGC  
 GCTGCCTCACCTCCCAAGAAAGATGCGCTGAGTCTCTCTGGTTTGTCTTGACCAACAGACCTGG  
 ATCCCTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001177888
- Insert Size:** 6798 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\\_001177888.1](#), [NP\\_001171359.1](#)

RefSeq Size: 8148 bp

RefSeq ORF: 6798 bp

Locus ID: 12291

Cytogenetics: 11 D