

Product datasheet for **MC201562**

Camk2g (NM_001039138) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Camk2g (NM_001039138) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Camk2g
Synonyms:	Camkg
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC019162 sequence for NM_001039138
 CCACGCGTCCGGCCGGGCAGCGGTGACTGTGCACCGACGTCGGCGCGGGCTGCACCGCCGCGTCCGCCCCG
 CCAGTATGGCCACCACCGCCACCTGCACCCGCTTCACCGACGACTACCAGCTTTTCGAGGAGCTCGGCAA
 GGGTGCCTTCTCAGTGGTCCGGAGGTGTGTAAGAAAAACATCTACGCAGGAATATGCTGCAAAAATCATC
 AATACCAAGAAGTTGTCCGCCGAGATCATCAGAACTAGAACGAGAGGCCCGGATATGCCGACTTCTGA
 AACATCCAACATTGTGCGTCTCCATGACAGTATTTCTGAAGAAGGGTTTCACTACCTCGTGTGTTGACCT
 TGTTACCGGAGGGGAGTTGTTTGAAGACATTGTGGCCAGAGACTACTACGTGAAGCTGATGCCAGCCAC
 TGTATACATCAGATCCTGGAGAGTGTTAACCACATCCACCAGCATGACATCGTCCACCGGATCTGAAGC
 CTGAGAACTTGCTGCTGGCGAGTAAATGCAAGGGTGTGCGGTCAAGCTAGCTGATTTTGGCCTGGCCAT
 CGAAGTACAGGGAGAGCAGCAGGCTTGGTTTGGTTTGGCCGACCCAGGTTACTTGTCCCTGAGGTC
 TTGAGGAAAGATCCCTATGGAACCTGTGGACATCTGGGCTGCGGGGTATCTGTATATCCTCTGG
 TGGGCTACCTCCCTTCTGGGATGAGGATCAGCACAAGCTGTATCAGCAGATCAAAGCTGGAGCCTACGA
 TTTCCCATCACCAGAATGGGACACAGTCACTCCTGAAGCTAAGAAGTTGATCAACCAGATGCTGACCATA
 AACCTGCAAAGCGCATACGGCCGACCAGGCTCTCAAGCACCCATGGGTCTGTCAACGGTCTACGGTGG
 CATCCATGATGCATCGCCAAGAGACGGTAGAGTGCTTACGCAAAATCAACGCCCGGAGAAAACCTGAAGGG
 TGCATCCTCACAAACATGCTTGTCTCCAGGAACCTTTTCAAGTGCACAAAAGCCTATTGAACAAGAAGTCA
 GATGGCGGTGTAAGCCACAGAGCAACAACAAAACAGTCTCGTAAGCCAGCCCAAGAGCTGCGCCCT
 TGCAGACGGCCATGGAACCACAAACCACCGTGGTACATAATGCTACAGATGGGATCAAGGGCTCCACAGA
 GAGCTGTAAACCCACTACAGAAGACGAAGATCTCAAAGTGAGAAAACAAGAAATCATTAAGATCACAGAA
 CAACTGATCGAAGCCATCAACAATGGGGACTTTGAGGCCACACGAAGATTTGTGACCCGGGCTCACAT
 CCTTTGAGCCAGAAGCCCTTGGTAACCTCGTGAAGGAATGGATTTCCATAAGTTTACTTTGAGAACTCT
 CCTGTCCAAGAACAGCAAGCCTATCCACACCACCTCCTAAACCTCACGTCCACGTGATGGGGAGGAC
 GCAGCTTGATCGCCTATATCCGGCTCACTCAGTACATCGACGGGCGGGTCCGCTCGCACCAGTCACT
 CAGAGGAGACCCGGGTGTGGCACCGGACGGCAAGTGGCTCAATGTCCACTATCACTGCTCAGGGGC
 CCCTGCCGACCCGCTACAGTGAAGTCAAGCCACAGGGGCTTAGGAGACTCCAGCTGGAGGTTGAACCTTC
 GCAGCCAGTACTCTGGAGGGCTGAGTGACAGCGGCGGTCTGTTCGTTTGAAGTTTAAAAACAATTCAA
 TTACAAAGCGGCAGCAGCAATGCACGCCCTGCATGCAGCCCTCCCGCCGCTTCTGTCTGTCTCT
 GCTGTACCGAGGTGTTTTTACATTTAAGAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_001039138

Insert Size: 1557 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: [BC019162](#), [AAH19162](#)

RefSeq Size: 1864 bp

RefSeq ORF: 1557 bp

Locus ID: 12325

UniProt ID: [Q923T9](#)

Cytogenetics: 14 A3

Gene Summary: Calcium/calmodulin-dependent protein kinase that functions autonomously after Ca(2+)/calmodulin-binding and autophosphorylation, and is involved in sarcoplasmic reticulum Ca(2+) transport in skeletal muscle and may function in dendritic spine and synapse formation and neuronal plasticity. In slow-twitch muscles, is involved in regulation of sarcoplasmic reticulum (SR) Ca(2+) transport and in fast-twitch muscle participates in the control of Ca(2+) release from the SR through phosphorylation of the ryanodine receptor-coupling factor triadin. In neurons, may participate in the promotion of dendritic spine and synapse formation and maintenance of synaptic plasticity which enables long-term potentiation (LTP) and hippocampus-dependent learning (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) lacks an in-frame exon in the central coding region, compared to variant 1. The encoded isoform (2) is shorter, compared to isoform 1.