

Product datasheet for **RN207416**

Camk2g (NM_133605) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Camk2g (NM_133605) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Camk2g
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN207416 representing NM_133605
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCACCACCGCCACCTGCACCCGCTTCACCGACGACTACCAGCTTTTCGAGGAGCTCGCAAGGGTG
 CCTTCTCGGTGGTCCGGAGGTGCGTGAAGAAAAGTTCGACGCAGGAGTATGCAGCAAAAATCATCAATAC
 CAAGAAGTTGTCTGCCGAGATCATCAGAACTAGAACGAGAGGCCCGGATATGCCGACTTCTGAAACAT
 CCAAACATCGTGCCTCCATGACAGTATTTCTGAAGAAGGGTTTCACTACCTCGTGTGGACCTTGTTA
 CGGGAGGGGAGTTGTTTGAAGACATCGTGGCCAGAGAATACTACAGCGAAGCTGATGCCAGCCACTGTAT
 ACATCAGATCCTGGAGAGCGTCAACCACATCCACCAGCATGACATCGTCCACCGGACCTGAAGCCCGAG
 AACTTGTCTGGCGAGTAAATGCAAGGGTGTGCGGTCAAGCTAGCTGATTTTGGCCTGGCCATCGAAG
 TGCAGGGAGAGCAGCAGGCTTGGTTTGGTTTGTGTCACCCAGGTTACTTGTCCCTGAGGTCTTGAG
 GAAAGATCCCTATGGAACCTGTGGATATCTGGCCTGCGGGTTCATCTGTATATCCTCTGGTGGGC
 TACCCTCCCTTCTGGGATGAGGATCAGCACAAGCTCTATCAGCAGATCAAAGCTGGAGCCTACGATTTCC
 CATCACCAGAATGGGACACAGTCACTCCTGAAGCTAAGAATTGATCAACCAGATGTTGACCATAAACCC
 TGCAAAGCGTATCACAGCTGACCAGGCTCTCAAGCACCCATGGGTCTGTCAACGGTCAACAGTGGCATCC
 ATGATGCATCGCCAAGAGACAGTGGAGTGTACGCAAGTTCAACGCCCGGAGAAAATGAAGGGTGCCA
 TCCTCACAAACATGCTTGTCTCCAGGAACCTTTTCAGTTGGCAGGCAGAGCTCCGCCCCCGCTCGCTGC
 CGCGAGCGCCCGCGCTGGCCGGCAAGCTGCCAAGAGCCTATTGAACAAGAAGTCAGATGGCGGCGTC
 AAGAAAAGGAAGTCGAGTTCAGCGTGCACCTAATGGAGCCACAACACCGTGGTACATAATGCTACAG
 ATGGGATCAAGGGCTCCACAGAGAGCTGCAACCACCACAGACGAAGATCTCAAAGTGCAGAAAACA
 GGAGATCATTAAAGATCACAGAACAGCTGATAGAAGCCATCAACAATGGGGACTTTGAGGCCATACGGAAG
 ATTTGTGACCCAGGCCTCACTTCTTTGAGCCAGAAGCCCTTGGTAACCTCGTGGAGGGGATGGATTTC
 ATAAGTTTACTTTGAGAATCTCCTGTCCAAGAACAGCAAGCCTATCCACACCACCATCTAAACCACACA
 TGTCCATGTATCGGCGAGGACGCAGCTTGCATCGCTACATCCGGCTACCCAGTACATCGATGGCGAG
 GGTCCGCTCGCACCAGTCAGTCAGAGGAGACCCGGGTGTGCCACCGCCGGGATGGCAAGTGGCTCAATG
 TCCACTACTGCTCAGGAGCCCTGCTGCACCGCTGCAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_133605
Insert Size: 1584 bp
OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<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_133605.1</u> , <u>NP_598289.1</u>
RefSeq Size:	1728 bp
RefSeq ORF:	1584 bp
Locus ID:	171140
UniProt ID:	<u>P11730</u>
Cytogenetics:	15p16
Gene Summary:	gamma chain of the CaM kinase II; involved in regulation of potassium currents, particularly in response to oxidative stress [RGD, Feb 2006]