

## Product datasheet for **MR207650**

### Camk1g (NM\_144817) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Camk1g (NM_144817) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Camk1g
Synonyms:	CaMKIgamma; CLICK-III
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR207650 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGGGCGTAAGGAGGAGGAGGACTGCAGTTCCTGGAAGAAACAGACCACCAACATCAGGAAAACCTTCA  
 TCTTCATGGAAGTGCTGGGATCAGGAGCTTCTCAGAGGTGTTCTGGTGAAGCAAAGAGTGACTGGGAA  
 ACTCTTTGCTCTGAAATGTATCAAGAAGTCACCAAGCCTCCGGGACAGCAGCCTAGAGAATGAGATCGCT  
 GTGTTGAAAAGGATCAAGCATGAGAACATTGTGACCTGGAGGACATCTATGAGAGCACCACCCACTACT  
 ACCTGGTCATGCAGCTTGTCTGGAGGTGAGCTTTTGGACCGGATCCTAGAGCGTGGTGTCTACACAGA  
 AAAGGATGCCAGCCTGGTCATCCAGCAGGTCTGTCTGCGGTGAAATACCTTCATGAGAATGGCATCGTC  
 CACAGAGATCTAAAGCCTGAAAACCTGCTGTACCTCACCCCTGAGGAGAACTCCAAGATCATGATCACTG  
 ACTTTGGTCTATCAAGATGGAGCAGAATGGAGTCATGTCCACAGCTTGTGGACCCAGGCTACGTGGC  
 TCCAGAAGTGCTGGCCAGAAGCCCTACAGTAAGGCTGTGGACTGCTGGTCCATTGGTGTATCACATAC  
 ATACTGCTGTGTGGCTATCCCCCTTCTATGAAGAAACAGAATCAAAGCTTTTGAAGAAGATCAAAGAGG  
 GTTACTACGATTTGAGTCTCCGTTCTGGGATGACATTTCTGAGTCAGCAAGGATTTTATTTGCCATCT  
 GCTGGAGAAGGACCCAAACGAACGGTACACCTGCGAGAAAGCCCTCAGACACCCCTGGATTGATGGAAC  
 ACAGCCCTGCACCGGGACATCTATCCATCTGTCAGCCTCCAGATTCAGAAGAAGTTTGCAGAGCAAGT  
 GGAGGCAAGCCTTCAACGCAGCTGCGGTGGTGCATCACATGAGGAAACTGCATGAACCTGCACAGCCC  
 CAGTGTCCGCCAAGAGGTGGAGAACAGGCCACCTGTGTCCCTGCTCCTGAAGTCTCCAGACCAGACTCC  
 CATGACAGCTCCATCACAGAGGCCCCCATCTGGACCAAGCACACCCCTTCTGCACTGACCCGACTAC  
 CCTGCTCACACAGCTCCCGCCCTCAGCTCCAGTGGTGGCCGCTCACTCAACTGCCTGGTCAACGGCTC  
 CTTGCGCATCAGCAGTAGCCTAGTGCCCATGCAACAGGGCCCTAGCCACGGGGCCCTGTGGCTGTGC  
 TCCAGCTGTCTAAATATTGGGAACAAGGAAAGTCTTCTACTGCTCTGAGCCTACCCTTCTCAGAAAGG  
 CCAATAAAAAACAGAAGTTCAAGTCAGAGGTCATGGTACCAGTGAAGGCTGGTGGCAGCACCCTGCC  
 GGGTGGGCGACTGGGTGTGTCTCGTTATG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR207650 protein sequence  
 Red=Cloning site Green=Tags(s)

MGRKEEEDCSSWKKQTTNIRKTFIFMEVLGSGAFSEVFLVKQRVTGKLFALKCIKKSPAFRDSSLENEIA  
 VLKRIKHENIVTLEDIYESTTHYYLVMQLVSGGELFDRILERGVYTEKASLVIQQVLSAVKYLHENGIV  
 HRDLKPENLLYL TPEENSKIMITDFGLSKMEQNGVMSTACGTPGYVAPEVLAQKPYSAVDCWSIGVITY  
 ILLCGYPPFYEETESKLFEKIKEGYEFESPFWDDISESAKDFICHILLEKDPNERYTCEKALRHPWIDGN  
 TALHRDIYPSVSLQIQKNFAKSKWRQAFNAAAVVHMRKLMNLSHPSVRQEVENRPPVSPAPEVSRPDS  
 HDSSITEAPILDPSTPLPALTRLPCSHSSRPSAPSGGRSLNCLVNGSLRISSSLVPMQQGPLATGPGCCG  
 SSCLNIGNKGKSSYCSEPTLFRKANKKQNFKSEVMVPVKAGGSTHCRGGQTVCLVM

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_144817

**ORF Size:** 1434 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.

**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\\_144817.2](#), [NP\\_659066.1](#)

**RefSeq Size:** 2467 bp

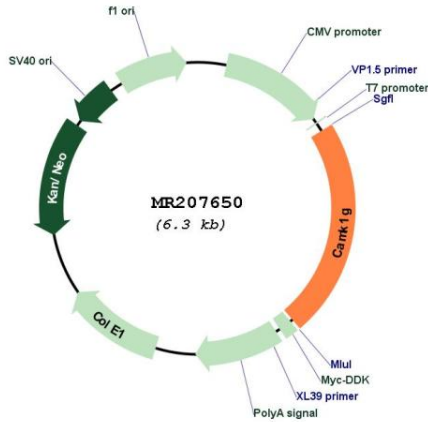
**RefSeq ORF:** 1434 bp

**Locus ID:** 215303

**UniProt ID:** [Q91VB2](#)

**Cytogenetics:** 1 97.74 cM  
**MW:** 53.3 kDa  
**Gene Summary:** Calcium/calmodulin-dependent protein kinase belonging to a proposed calcium-triggered signaling cascade. In vitro phosphorylates transcription factor CREB1.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR207650