

## Product datasheet for **MG208139**

### Camkk1 (NM\_018883) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Camkk1 (NM_018883) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Camkk1
Synonyms:	A1846603; Camkk; CaMKKalpha
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG208139 representing NM\_018883  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGAGAGTGGCCAGCCGCTCTGCTGCCAAGACCCTCGTGCAGAGCTGGTGGATCGGGTGGCGGCCATCA  
 ATGTGGCCCACTTGAAGAAGCAGATGAGGGTCCAGACCTGCCAGGAATGGTGTGGATCTCCACCCCG  
 GGCCAGAGCTGCCTCCGTGATCCCTGGCAGTGCTCAAGACCCACTCCAGTGCGCCCCAGCCTCTCGGCT  
 AGAAAGTTCTCCCTGCAGGAACGACCAGCTGGAAGCTGTCTGGGGCTCAAGTTGGGCCTTACTCTACAG  
 GACCTGCCAGTCACATCTCTCTCGGTCTGGCGGAGACCACCATCGAGTCCCACCGTGTGGCCATCTC  
 AGACACAGAGGACTGTGTGCAACTGAACCAGTACAAGTGCAGAGTGAGATTGGCAAGGGTGCCTATGGT  
 GTGGTGAAGCTGGCCTACAACGAAAGTGAAGACAGACACTATGCAATGAAAGTTCTTTCCAAAAAGAAGT  
 TACTGAAGCAGTATGGCTTTCCTCGCCGCTCTCCCCCAGAGGGTCCCAAGCTACCCAGGGAGGGCCAGC  
 CAAACAGCTGCTGCCCTGGAGCGTGTGTATCAGGAGATTGCCATTCTAAAGAAGCTGGACCACGTGAAT  
 GTAGTCAAATGATCGAGGTCTGGATGATCCCGCTGAAGACAACCTCTATTTGGTGTTCGACCTCTGA  
 GAAAAGGGCCAGTCATGGAAGTGCCTGCGACAAGCCCTTCCCAGAGGAGCAAGCTCGCCTCTACCTCCG  
 GGACATCATCCTGGGCTCGAGTACTTGCAGTCCAGAAAGATTGTCCACAGGGACATCAAGCCATTAAC  
 CTACTCCTTGGGACGACGGCATGTGAAGATCGCCGACTTTGGTGTGAGTAAACAGTTTGGGGGAATG  
 ATGCTCAGCTGTCCAGTACGGCAGGGACCCGGCATTTCATGGCCCGGAGGCCATTTCTGATTCGGCCA  
 GAGCTTCAAGTGGGAAGCCCTTGGATGTATGGGCCACTGGGGTACGCTATATTGCTTTGTCTATGGGAAG  
 TGCCCGTTCATTGATGACTACATCTGACCTGCACCCTAAGTCAAGAATGAGGCCGTGGTGTTCCTG  
 AGGAGCCAGAGGTCAGCGAGGACCTCAAAGACCTGATCCTGAGGATGCTAGACAAGAATCGAGCAAG  
 AATTGGGGTGTGAGATATCAAGTTACACCTTGGGTGACCAAGCATGGAGAGGAGCCCTCCCTTCAGAG  
 GAGGAGCACTGCAGTGTGGTGGAGGTGACCGAGGAAGAGGTGAAGAAGTCAAGTCAAGGCTCATCCCCAGCT  
 GGACCACTGTGATCCTGGTCAAGTCTATGCTGAGAAAGCGTTCTTTGAAACCCATTGAGCCCAAGC  
 ACGCAGGGAAGAAAGATCCATGTCTGCACCAGGAAGCTTACTGATGAAAGAAGGATGCGGAGAAGGGTGC  
 AAAAGCCAGAGCTTCCCGAGTCCAGGAGGATGAGGCTGCGTCC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG208139 representing NM\_018883  
 Red=Cloning site Green=Tags(s)

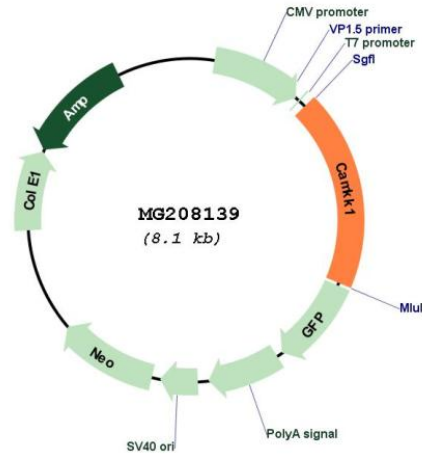
MESGPAVCCQDPRAELVDRVAAINVAHLEEADGPEPARNGVDPPIPRARAASVIPGSASRPTVVRPSLSA  
 RKFSLQERPAGSCLGAQVGPYSTGPASHISPRSWRRPTIESHRVAISDTEDCVQLNQYKLQSEIGKGAYG  
 VVRLAYNESEDHRHYAMKVL SKKKLLKQYGFRRPPPRGSQATQGGPAKQLLPLERVYQEIAILKKLDHVN  
 VVKLIEVLDDPAEDNLYLVFDLLRKGPMVEVPCDKPFPEEQARLYLRDII LGLEYLHCQKIVHRDIKPSN  
 LLLGDDGHVKIADFGVSNQFEGNDAQLSSTAGTPAFMAPEAISDSGQSFSGKALDVWATGVTLYCFVYKG  
 CPFIDDYILTLHRKIKNEAVVFPEEPEVSEDLKDLILRMLDKNPETRIGVSDIKLHPVWTKHGEEPLPSE  
 EEHCVVVEVTEEEVKNSVRLIPSWTTVILVKSMRLKRSFGNPFEPQARREERSMSAPGSLLMKEGCGEGC  
 KSPELPGVQDEEAAS

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI



**Plasmid Map:**


**ACCN:** NM\_018883

**ORF Size:** 1515 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\\_018883.3](#)

**RefSeq Size:** 3466 bp

**RefSeq ORF:** 1518 bp

**Locus ID:** 55984

**UniProt ID:** [Q8VBY2](#)

**Cytogenetics:** 11 B4

**Gene Summary:** Calcium/calmodulin-dependent protein kinase that belongs to a proposed calcium-triggered signaling cascade involved in a number of cellular processes. Phosphorylates CAMK1, CAMK1D, CAMK1G and CAMK4. Involved in regulating cell apoptosis. Promotes cell survival by phosphorylating AKT1/PKB that inhibits pro-apoptotic BAD/Bcl2-antagonist of cell death. [UniProtKB/Swiss-Prot Function]