

Product datasheet for **MR208139**

Camkk1 (NM_018883) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Camkk1 (NM_018883) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Camkk1
Synonyms:	A1846603; Camkk; CaMKKalpha
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208139 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGAGAGTGGCCACGCCGTCTGCTGCCAAGACCCTCGTGCAGAGCTGGTGGATCGGGTGGCGGCCATCA
 ATGTGGCCCACTTGAAGAAGCAGATGAGGGTCCAGACCTGCCAGGAATGGTGTGGATCTCCACCCCG
 GGCCAGAGCTGCCTCCGTGATCCCTGGCAGTGCTTCAAGACCCACTCCAGTGCGCCCCAGCCTCTCGGT
 AGAAAGTTCTCCCTGCAGGAACGACCAGCTGGAAGCTGTCTGGGGCTCAAGTTGGGCCTTACTCTACAG
 GACCTGCCAGTCACATCTCTCTCGGTCTGGCGGAGACCACCATCGAGTCCCACCGTGTGGCCATCTC
 AGACACAGAGGACTGTGTGCAACTGAACCAGTACAAGCTGCAGAGTGAGATTGGCAAGGGTGCCTATGGT
 GTGGTGGGCTGGCCTACAACGAAAGTGAAGACAGACACTATGCAATGAAAGTTCTTTCCAAAAGAAGT
 TACTGAAGCAGTATGGCTTTCCTCGCCGTCTCCCCCAGAGGGTCCCAAGCTACCCAGGGAGGGCCAGC
 CAAACAGCTGCTGCCCTGGAGCGTGTGTATCAGGAGATTGCCATTCTAAAGAAGCTGGACCACGTGAAT
 GTAGTCAAATGTATCGAGGTCTGGATGATCCCGCTGAAGACAACCTCTATTTGGTGTTCGACCTCTGA
 GAAAAGGGCCAGTCATGGAAGTGCCTGCGACAAGCCCTTCCCAGAGGAGCAAGCTCGCCTCTACCTCCG
 GGACATCATCCTGGGCTCGAGTACTTGCCTGCCAGAAGATTGTCCACAGGGACATCAAGCCATTAAC
 CTACTCCTTGGGACGACGGCATGTGAAGATCGCCGACTTTGGTGTGAGTAAACAGTTTGGGGGAATG
 ATGCTCAGCTGTCCAGTACGGCAGGGACCCGGCATTTCATGGCCCCGAGGCCATTTCTGATTCGGCCA
 GAGCTTCAAGTGGGAAAGCCTTGGATGTATGGGCCACTGGGGTACGCTATATTGCTTTGTCTATGGGAAG
 TGCCCGTTCATTGATGACTACATCTGACCTGCACCCTAAGTCAAGAATGAGGCCGTGGTGTTCCTG
 AGGAGCCAGAGTTCAGCAGGACCTCAAAGACCTGATCCTGAGGATGCTAGACAAGAATCCTGAGACAAG
 AATTGGGGTGTGAGATATCAAGTTACACCTTGGGTGACCAAGCATGGAGAGGAGCCCTCCCTTCAGAG
 GAGGAGCACTGCAGTGTGGTGGAGGTGACCGAGGAAGAGTGAAGAAGTCAAGTCAAGTCAAGTCAAGT
 GGACCACTGTGATCCTGGTCAAGTCTATGCTGAGAAAGCGTTTCTTTGAAAACCCATTGAGCCCAAGC
 ACGCAGGGAAGAAAGATCCATGTCTGCACCAGGAAGCTTACTGATGAAAGAAGGATGCGGAGAAGGGTGC
 AAAAGCCAGAGCTTCCCGAGTCCAGGAGGATGAGGCTGCGTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208139 protein sequence
 Red=Cloning site Green=Tags(s)

MESGPAVCCQDPRAELVDRVAAINVAHLEEADEGPEPARNGVDPPIPRARAASVIPGSASRPTVVRPSLSA
 RKFSLQERPAGSCLGAQVGPYSTGPASHISPRSWRRPTIESHRVAISDTEDCVQLNQYKLQSEIGKGAYG
 VVRLAYNESEDRHYAMKVLKSKLLKQYFPRPPRGSQATQGGPAKQLLPLERVYQEIAILKKLDHVN
 VVKLIEVLDDPAEDNLYLVFDLLRKGPMVEVPCDKPFPEEQARLYLRDIIILGLEYLHCQKIVHRDIKPSN
 LLLGDDGHVKIADFGVSNQFEGNDAQLSSTAGTPAFMAPEAISDSGQSFSGKALDVWATGVTLYCFVYGK
 CPFIDYILTLHRKIKNEAVVFPEEPEVSEDLKDLILRMLDKNPETRIGVSDIKLHPVWTKHGEEPLPSE
 EEHCSVVEVTEEEVKNSVRLIPSWTTVILVKSMLRKRFSGNPFEPQARREERSMSAPGSLLMKEGCGEGC
 KSPPELPGVQDEAAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_018883

ORF Size: 1518 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

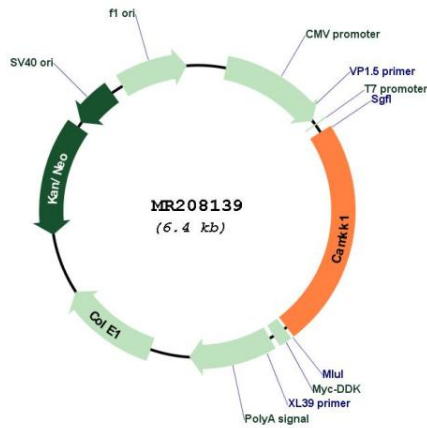
Locus ID: 55984

UniProt ID: [Q8VBY2](#)
Cytogenetics: 11 B4

MW: 55.8 kDa

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]

Product images:



Circular map for MR208139