

Product datasheet for **RR213716**

Camkk2 (NM_031338) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Camkk2 (NM_031338) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Camkk2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR213716 representing NM_031338
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCATCATGTGTCTCTAGCCAGCCCACCAGCGACCGGGCGGCCCCCCAGGATGAGCTGGGAAGCGGGG
 GTGTCAGCCGGGAAAGCCAGAAGCCCTGCGAGGCACTGCGGGGACTCTCATCCTTAAGCATCCACTTGGG
 CATGGAATCCTTCATCGTGGTCACCGAGTGTGAACCAGGCCGGGGCGTGGACCTCAGCCTGGCCAGAGAC
 CAACCTCTGGAGGCCGATGGCCAGGAACTCCCTCTGGATGCCTCGGAACCTGAGTCACGGTCCCTGCTTT
 CTGGTGGCAAGATGTCCCTCCAGGAGCGGTCCCAGGGCGGGCGGCTCCAGCAGCAGCCTGGACATGAA
 TGGACGCTGCATCTGCCATCCCTGTCTACTACCAGCCAGCTCCACAGTCCCTCCCCGGATGCC
 CGGCGGCCACAGTGGAGTCGCACCACGTCTCCATCACGGTTTGCAGGACTGTGTGCAGCTGAATCAGT
 ACACGCTGAAGGATGAAATTGAAAAGGGCTCCTATGGCGTTGTCAAGCTGGCCTACAATGAAATGACAA
 TACTTATTATGCAATGAAAGTGTGTCCAAAAAGAAGCTGATCCGACAGGCCGGCTTCCACGTCGCCCC
 CCACCTCGAGGACTCGCCAGCTCCAGGGGGTGCATCCAGCCAGGGGCCCATCGAGCAGGTGTATC
 AGGAAATTGCCATCCTCAAGAAGCTGGATCACCCAACGTGGTGAAGCTGGTGGAGGTCCTGGATGACCC
 TAACGAGGACCATCTGTACATGGTGTGAACTGGTCAACCAAGGGCCTGTGATGGAAGTCCCACCCCTC
 AAGCCACTGTCTGAAGACCAGGCCCGGTCTACTTCCAAGATCTGATCAAAGGCATTGAGTACTTACACT
 ACCAGAAGATCATTACCCGGGACATCAAACCTCCAACCTCCTAGTGGGGGAGGACGGGCACATCAAGAT
 AGCCGACTTCGGCGTGAGCAATGAGTTCAAGGGCAGCGACGCTTGTGTCTAACACCGTGGGCACGCT
 GCCTTCATGGCGCCGAGTCGCTCTCAGAGACCCGGAAGATCTTCTCCGAAAGGCCTTGGATGTTGGG
 CCATGGGTGTGACACTATACTGCTTTGTTTTGGCCAGTCCCTTTCATGGATGAACGAATCATGTGTTT
 GCACAGTAAGATCAAGAGTCAGGCCCTGGAGTTTCCAGACCAGCCTGACATAGCCGAAGACTTGAAGAT
 CTGATCACCCGGATGTTGGACAAGAACCAGAGTCCAGGATTGTGGTGCCTGAAATCAAGCTGCACCCTT
 GGGTCACGAGGCACGGGGCCGAGCCACTGCCGTGAGGACGAGAACTGCACACTGGTCGAGGTGACCGA
 AGAGGAGGTGAGAAATTCAGTCAAACACATTCCCAGCCTGGCAACTGTGATCCTAGTGAAGACCATGATT
 CGGAAACGGTCTTTTGGGAACCCATTTGAAGGTAGCCGGCGGGAGGAGCGTTCTTGTGCAGCACCCGGAA
 ACCTGCTCACAAAAACCAACCAGGGAGTGGGAGCCCTTGTCTGAGCCCAAGGAAGCAAGGCAGCGAAG
 ACAGCCTCCGGGGCCAGAGCCAGCCCTGTGGGGGAGGAGGAAGTGTCTTGTGAAAGGTGGTCCCTGC
 GTGGAAGTTGCGGGGCTCCGGCCCTGGCTCCCAGCCACGCACGCTCCACAGCAGCCGAGGAGGCCA
 TGGAGCCGGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR213716 representing NM_031338
 Red=Cloning site Green=Tags(s)

MSSCVSSQPTSDRAAPQDELGSGGVSRESQKPCEALRGLSSLSIHLGMESFIVVTECEPGRGVDLSLARD
 QPLEADGQELPLDASEPESRLLSGGKMSLQERSQGGPASSSSLDMNGRCICPSLSYSPASSPQSSPRMP
 RRPTVESHVYSITGLQDCVQLNQYTLKDEIGKGSYGVVKLAYNENDNTYYAMKVL SKKKLIRQAGFPRRP
 PPRGTRPAPGGCIQPRGPIEQVYQEIAILKKLDHPNVVKLVEVLDDPNEDHLYMVFELVNQGPVMEVPTL
 KPLSEDQARFYFDLIKIEYLHYQKIIHRDIKPSNLLVGEDGHKIAIDFGVSNFEKGS DALLSNTVGP
 AFMAPESLSETRKIFSGKALDVWAMGVTLYCFVFGQCPFMDERIMCLHSKIKSQALEFPDQPDIAEDLKD
 LITRMLDKNPESRIVVPEIKLHPWVTRHGAEPLPSEDENCTLVEVTEEEVENSVKHIPS LATVILVKTMI
 RKRFSGNPFEGSRREERSL SAGPNLLTKKPTREWEPLSEPKEARQRRQPPGPRASPCGGGSALVKGGPC
 VESCGAPAPGSPRTPPQQPEEAMEPE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_031338

ORF Size: 1761 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_031338.1](#), [NP_112628.1](#)

RefSeq Size: 2132 bp

RefSeq ORF: 1764 bp

Locus ID: 83506

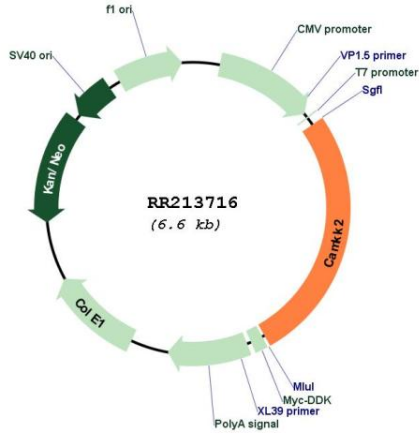
UniProt ID: [O88831](#)

Cytogenetics: 12q16

MW: 64.4 kDa

Gene Summary: calmodulin-dependent kinase kinase; involved in activating Cam-dependent kinase IV [RGD, Feb 2006]

Product images:



Circular map for RR213716