

Product datasheet for MR229326

Camk1d (NM_001290374) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Camk1d (NM_001290374) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Camk1d
Synonyms:	A630059D12Rik; CaMKIdelta; CKLiK; E030025C11Rik; mCKLiK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR229326 representing NM_001290374 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCCGGGAGAACGGCGAGAGCAGCTCCTCCTGAAAAAGCAAGCAGAAGACATTAAGAAGATCTTCG
AGTTCAAGGAGACCCTCGGAACCTGGGCCCTTTTCTGAAGTTGTTTTAGCCGAGGAGAAAGCTACTGGGAA
GCTCTTCGCAGTGAAGTGCATCCCGAAGAAGGCGCTGAAGGGCAAGGAGAGCAGCATCGAGAACGAGATT
GCCGTGCTTAGAAATGTGTCTGGTGGAGAAGCTCTCGATCGGATAGTGGAGAAGGGGTTTTACACAGAGA
AAGATGCCAGCACTCTCATCCGCCAGGTCCTGGATGCCGTATACTATCTCCACAGAATGGGCATTGTCCA
CAGGGACCTCAAGCCGGAGAATCTTTACTACAGTCAAGACGAGGAGTCCAAAATAATGATCAGTGAC
TTTGGCTTGTGCGAAAATGGAGGGCAAAGGAGATGTGATGTCCACGGCCTGCGGGACCCAGGCTATGTTG
CTCCGGAAGTTCTCGCCAGAAACCGTACAGCAAAGCTGTGGACTGCTGGTCCATCGGGGTGATCGCCTA
TATCTTGCTCTGTGGTTACCCCTCTTTTATGATGAAAATGACTCGAAGCTGTTTGAACAGATCCTCAAG
GCAGAATATGAGTTTGATTCCCCCTACTGGGATGACATCTCCGACTCTGCCAAAGACTTCATTGGGAATC
TGATGGAGAAAGACCCAAATAAAAAGATACACTTGTGAGCAGGCAGCTCGACCCCATGGATTGCTGGTGA
CACAGCCCTTAGCAAAAACATTCACGAATCTGTGAGTCCAGATCCGGAAGAATTTTGC AAAGAGCAAA
TGGAGACAAGCGTTTAACGCCACGGCAGTGTGAGACATATGCGGAGGCTCCAGTTGGCAGCAGCCTGG
ACAGTTCAAATGTCTGGCACCTTCCACGCTCTGTAGTTTCCTTTCTTCTCGTCGGGGTTCGAGGATC
GGAGCTGAGAGGAGACCCAGGCCACCACTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229326 representing NM_001290374
 Red=Cloning site Green=Tags(s)

```
MARENGESSSSWKKQAEDIKKIFEFKETLGTGAFSEVLAEEKATGKLFVAVKCIKKALKGKESSIENEI
AVLRNVSGGELFDRIVEKGFYTEKASTLIRQVLDVAVYVLRHMGIVHRDLKPENLLYSSQDEESKIMISD
FGLSKMEGKGDVMSTACGTPGYVAPEVLAQKPYSAVDCWSIGVIAYILLCGYPPFYDENDSKLFEQILK
AEYEFDSPYWDDISDSAKDFIRNLMKDPNKRYTCEQAARHPWIAGDTALSKNIHESVSAQIRKNFAKSK
WRQAFNATAVVRHMRLQLGSSLDSSNVWHLPRSVVSFLLRRGSQESELRGDPGPPL
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001290374

ORF Size: 1011 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_001290374.1](#), [NP_001277303.1](#)

RefSeq Size: 7108 bp

RefSeq ORF: 1014 bp

Locus ID: 227541

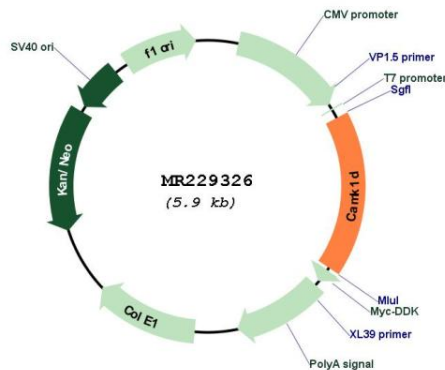
UniProt ID: [Q8BW96](#)

Cytogenetics: 2 A1

MW: 38.5 kDa

Gene Summary: Calcium/calmodulin-dependent protein kinase that operates in the calcium-triggered CaMKK-CaMK1 signaling cascade and, upon calcium influx, activates CREB-dependent gene transcription, regulates calcium-mediated granulocyte function and respiratory burst and promotes basal dendritic growth of hippocampal neurons. In neutrophil cells, required for cytokine-induced proliferative responses and activation of the respiratory burst. Activates the transcription factor CREB1 in hippocampal neuron nuclei. May play a role in apoptosis of erythroleukemia cells. In vitro, phosphorylates transcription factor CREM isoform Beta (By similarity). Isoform 1 but not isoform 2 activates CREB1.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR229326