

Product datasheet for MR229496

Camk1d (NM_001290375) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Camk1d (NM_001290375) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Camk1d
Synonyms:	A630059D12Rik; CaMKIdelta; CKLiK; E030025C11Rik; mCKLiK
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR229496 representing NM_001290375 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCCCGGGAGAACGGCGAGAGCAGCTCCTCCTGAAAAAGCAAGCAGAAGACATTAAGAAGATCTTCG
AGTTCAAGGAGACCCTCGAACTGGGGCCTTTTCTGAAGTTGTTTTAGCCGAGGAGAAAGCTACTGGGAA
GCTCTTCGCAGTGAAGTGCATCCGAAGAAGGCGCTGAAGGGCAAGGAGAGCAGCATCGAGAACGAGATT
GCCGTGCTTAGAAAGATTAAGCATGAAAACATTGTTGCCTTGGAAGATATTTATGAAAGCCAAATCACC
TCTACCTGGTCATGCAACTTGTGTCTGGTGGGAACTCTTCGATCGGATAGTGGAGAAGGGGTTTTACAC
AGAGAAAGATGCCAGCACTCTCATCCGCCAGGTCTGGATGCCGTATACTATCTCCACAGAATGGGCATT
GTCCACAGGGACCTCAAGCCGGAGAATCTTTATACTACAGTCAAGACGAGGAGTCCAAAATAATGATCA
GTGACTTTGGCTTGTGCGAAAATGGAGGGCAAAGGAGATGTGATGTCCACGGCTGCGGGACCCAGGCTA
TGTTGCTCCGGAAGTTCTCGCCAGAAACCGTACAGCAAAGCTGTGGACTGCTGGTCCATCGGGGTGATC
GCCTATATCTTGCTCTGTGGTTACCTCCTTTTTATGATGAAAATGACTCGAAGCTGTTGAACAGATCC
TCAAGGCAGAATATGAGTTTGATTCCCCCTACTGGGATGACATCTCCGACTCTGCCAAAGACTTTCATTG
GAATCTGATGGAGAAAGACCCAAATAAAAGATACACTTGTGAGCAGGCAGCTCGACACCCATGGATTGCT
GGTGACACAGCCCTTAGCAAAAACATTCACGAATCTGTGAGTCCAGATCCGGAAGAATTTTGCAAGA
GCAAAATGGAGACAAGCGTTAAACGCCACGGCAGTCGTGAGACATATGCGGAGGCTCCAGCTTGGCAGCAG
CCTGGACAGTTCAAATGTCTGGCACCTTCCAGCTCTGTAGTTTCTTTCTTCTCGTGGGGTTCGACG
GAGTCGGAGCTGAGAGGAGACCCAGGCCACCACTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229496 representing NM_001290375
 Red=Cloning site Green=Tags(s)

MARENGESSSSWKKQAEDIKKIFEFKETLGTGAFSEVVLAEKATGKLFVAVKICIPKALKKGKSSIENI
 AVLKRIKHENIVALEDIYESPNHLYLVMQLVSGGELFDRIVEKGFYTEKASTLIRQVLDAVYYLHRMGI
 VHRDLKPENLLYYSQDEESKIMISDFGLSKMEGKGDVMSTACGTPGYVAPEVLAQPKYSAVDCWSIGVI
 AYILLCGYPPFYDENDSKLFEQILKAEYEFDSPYWDDISDSAKDFIRNLMKDPNKRYTCEQAARHPWIA
 GDTALSKNIHESVAQIRKNFAKSKWRQAFNATAVVRHMRLQLGSSLDSSNVWHLPRSVVSFLLRRGSQ
 ESELRGDPGPPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

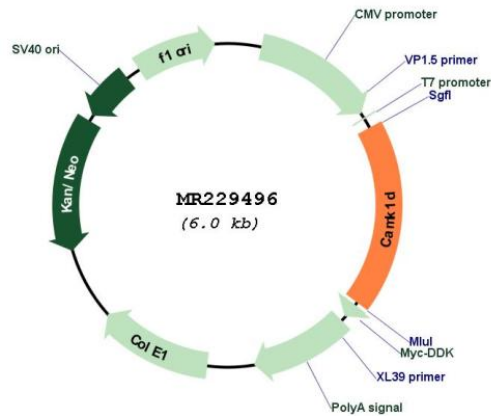
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001290375

ORF Size:	1086 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:	<ol style="list-style-type: none">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_001290375.1 , NP_001277304.1
RefSeq Size:	7183 bp
RefSeq ORF:	1089 bp
Locus ID:	227541
UniProt ID:	Q8BW96
Cytogenetics:	2 A1
MW:	41.5 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]