

Product datasheet for **MC227370**

Camk1d (NM_001290376) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Camk1d (NM_001290376) Mouse Untagged Clone
Tag: Tag Free
Symbol: Camk1d
Synonyms: A630059D12Rik; CaMKIdelta; CKLiK; E030025C11Rik; mCKLiK
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC227370 representing NM_001290376
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCGGAGTTTGTGCTTGGTCTGCTTAAATTTAGATGGAGCTGGATAAAGGGTCCAGAAACAGTG
GGCCTTTTCTGAAGTTGTTTTAGCCGAGGAGAAAAGCTACTGGGAAGCTCTTCGAGTGAAGTGCATCCC
GAAGAAGCGCTGAAGGGCAAGGAGAGCAGCATCGAGAACGAGATTGCCGTGCTTAGAAAGATTAAGCAT
GAAAACATTGTTGCCTTGAAGATATTTATGAAAGCCCAAATCACCTCTACCTGGTTCATGCAACTTGTGT
CTGGTGGAGAAGCTCTTCGATCGGATAGTGGAGAAGGGTTTTACACAGAGAAAGATGCCAGCACTCTCAT
CCGCCAGGTCTGGATGCCGTATACTATCTCCACAGAATGGGCATTGTCCACAGGGACCTCAAGCCGGAG
AATCTCTTATACTACAGTCAAGACGAGGAGTCCAAAATAATGATCAGTGACTTTGGCTTGTGAAAAATGG
AGGGCAAAGGAGATGTGATGTCCACGGCTGCGGGACCCAGGCTATGTTGCTCCGGAAGTTCTCGCCCA
GAAACCGTACAGCAAAGCTGTGGACTGCTGGTCCATCGGGGTGATCGCCTATATCTTGTCTGTGGTTAC
CCTCCTTTTTATGATGAAAATGACTCGAAGCTGTTTGAACAGATCCTCAAGGCAGAATATGAGTTTGATT
CCCCCTACTGGGATGACATCTCGACTCTGCCAAAGACTTCATTTCGGAATCTGATGGAGAAAGACCCAAA
TAAAAGATACACTGTGAGCAGGAGCTCGACACCCATGGATTGCTGGTGACACAGCCCTTAGCAAAAAC
ATTCACGAATCTGTGAGTCCCAGATCCGGAAGAATTTTGCAAAGAGCAAATGGAGACAAGCGTTTAAACG
CCACGGCAGTCGTGAGACATATGCGGAGGCTCCAGCTTGGCAGCAGCCTGGACAGTTCAAATGCAAGTGT
CTCAAGCAACCTCAGTTTGGCCAGCCAAAAGATTGTCTGGCACCTTCCACGCTCTGTAGTTTCTTTCT
TCTTCGTCGGGGTGCAGGAGTCGGAGCTGAGAGGAGACCCAGGCCACCCTGTGACAACAGGGCACA
CTGGAAGCAAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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ACCN:	NM_001290376
Insert Size:	1134 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<u>NM_001290376.1</u> , <u>NP_001277305.1</u>
RefSeq Size:	6742 bp
RefSeq ORF:	1134 bp
Locus ID:	227541
UniProt ID:	<u>Q8BW96</u>
Cytogenetics:	2 A1
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] Transcript Variant: This variant (4) contains an alternate 5' terminal exon, and it thus differs in the 5' UTR and 5' coding region, compared to variant 1. The encoded isoform (d) has a distinct N-terminus and is shorter than isoform a.