

Product datasheet for MC227115

Camk1d (NM_001290374) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Camk1d (NM_001290374) 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: >MC227115 representing NM_001290374
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCCCGGGAGAACGGCGAGAGCAGCTCCTCCTGAAAAAGCAAGCAGAAGACATTAAGAAGATCTTCG
 AGTTCAAGGAGACCCTCGAACTGGGCCCTTTTCTGAAGTTGTTTTAGCCGAGGAGAAAGCTACTGGGAA
 GCTCTTCGCAGTGAAGTGCATCCCGAAGAAGGCGCTGAAGGGCAAGGAGAGCAGCATCGAGAACGAGATT
 GCCGTGCTTAGAAATGTGTCTGGTGGAGAACTTTCGATCGGATAGTGGAGAAGGGGTTTTACACAGAGA
 AAGATGCCAGCACTCTCATCCGCCAGGTCTGGATGCCGTATACTATCTCCACAGAAATGGCATTGTCCA
 CAGGGACCTCAAGCCGGAGAATCTTTATACTACAGTCAAGACGAGGAGTCCAAAATAATGATCAGTGAC
 TTTGGCTTGTGAAAAATGGAGGGCAAAGGAGATGTGATGTCCACGGCCTGCGGGACCCAGGCTATGTTG
 CTCCGGAAGTTCTCGCCAGAAACCGTACAGCAAAGCTGTGGACTGTGGTCCATCGGGGTGATCGCCTA
 TATCTTGCTCTGTGGTTACCCCTCTTTTATGATGAAAATGACTCGAAGCTGTTGAACAGATCCTCAAG
 GCAGAATATGAGTTTGATTCCCCTACTGGGATGACATCTCCGACTCTGCCAAAGACTTCATTGGAATC
 TGATGGAGAAAGACCCAAATAAAAGATACACTTGTGAGCAGGAGCTCGACACCCATGGATTGCTGGTGA
 CACAGCCCTTAGCAAAAACATTCACGAATCTGTGAGTCCGAGATCCGGAAGAATTTGCAAAAGACAAA
 TGGAGACAAGCGTTTAAACGCCACGGCAGTCTGTGAGACATATGCGGAGGCTCCAGCTTGGCAGCAGCTGG
 ACAGTTCAAATGTCTGGCACCTTCCACGCTCTGTAGTTTCTTTCTTCTCGTGGGGTTCGAGGAGTC
 GGAGCTGAGAGGAGACCCAGGCCACCACTG**TGA**

ACGGTACGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001290374



[View online »](#)

Insert Size:	1014 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_001290374.1</u> , <u>NP_001277303.1</u>
RefSeq Size:	7108 bp
RefSeq ORF:	1014 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 (2) lacks an alternate in-frame exon in the 5' coding region, and uses an alternate splice site that results in a frameshift in the 3' coding region, compared to variant 1. The encoded isoform (b) has a distinct C-terminus and is shorter than isoform a.