

## Product datasheet for **MC227285**

### Camk1d (NM\_001290375) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Camk1d (NM\_001290375) 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:** >MC227285 representing NM\_001290375  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCCCCGGGAGAACGGCGAGAGCAGCTCCTCCTGAAAAAGCAAGCAGAAGACATTAAGAAGATCTTCG  
 AGTTCAAGGAGACCCTCGAACTGGGGCCTTTTCTGAAGTTGTTTTAGCCGAGGAGAAAGCTACTGGGAA  
 GCTCTTCGCAGTGAAGTGCATCCGAAGAAGGGCTGAAGGGCAAGGAGAGCAGCATCGAGAACGAGATT  
 GCCGTGCTTAGAAAGATTAAGCATGAAAACATTGTTGCCTTGAAAGATATTTATGAAAGCCAAATCACC  
 TCTACCTGGTCATGCAACTTGTGTCTGGTGGGAACTCTTCGATCGGATAGTGGAGAAGGGGTTTTACAC  
 AGAGAAAGATGCCAGCACTCTCATCCGCCAGGTCTGGATGCCGTATACTATCTCCACAGAATGGGCATT  
 GTCCACAGGGACCTCAAGCCGGAGAATCTTTATACTACAGTCAAGACGAGGAGTCCAAAATAATGATCA  
 GTGACTTTGGCTTGTGAAAAATGGAGGGCAAAGGAGATGTGATGTCCACGGCTGCGGGACCCAGGCTA  
 TGTTGCTCCGGAAGTTCTCGCCAGAAACCGTACAGCAAAGCTGTGGACTGCTGGTCCATCGGGGTGATC  
 GCCTATATCTTGCTCTGTGGTTACCTCCTTTTTATGATGAAAATGACTCGAAGCTGTTTGAACAGATCC  
 TCAAGGCAGAATATGAGTTTGATTCCCCCTACTGGGATGACATCTCCGACTCTGCCAAAGACTTTCATTG  
 GAATCTGATGGAGAAAGACCCAAATAAAAGATACACTTGTGAGCAGGCAGCTCGACACCCATGGATTGCT  
 GGTGACACAGCCCTTAGCAAAAACATTCACGAATCTGTCAAGTCCAGATCCGGAAGAATTTTGCAAGA  
 GCAAAATGGAGACAAGCGTTAAACGCCACGGCAGTCGTGAGACATATGCGGAGGCTCCAGCTTGGCAGCAG  
 CCTGGACAGTTCAAATGTCTGGCACCTTCCAGCTCTGTAGTTTCTTTCTTCTCGTGGGGTTCGACAG  
 GAGTCGGAGCTGAGAGGAGACCCAGGCCACCCTG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001290375



<b>Insert Size:</b>	1089 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001290375.1, NP_001277304.1</u>
<b>RefSeq Size:</b>	7183 bp
<b>RefSeq ORF:</b>	1089 bp
<b>Locus ID:</b>	227541
<b>UniProt ID:</b>	<u>Q8BW96</u>
<b>Cytogenetics:</b>	2 A1
<b>Gene Summary:</b>	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 (3) uses an alternate splice site that results in a frameshift in the 3' coding region, compared to variant 1. The encoded isoform (c) has a distinct C-terminus and is shorter than isoform a.