

Product datasheet for **MC228388**

Camkk2 (NM_001199676) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Camkk2 (NM_001199676) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Camkk2
Synonyms:	6330570N16Rik; AW061083; mKIAA0787
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC228388 representing NM_001199676
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCATCATGTGTCTCTAGCCAGCCACCAGCGACCGGGTGGCCCCCAGGATGAGCTGGGAAGTGGGG
 GTGGCAGCCGGGAAGGCCAGAAGCCCTGTGAGGCACTGCGGGGACTCTCATCCTTAAGTATCCACTTGGG
 CATGGAATCCTTCATCGTGGTCACCGAGTGTGAGCCAGGCCGGGTGTGGACCTCAACCTGGCCAGAGAC
 CAGCCTCCGGAGGCCGATGGCCAGGAACTCCCCCTCGAAGCCTCGGACCCTGAGTCCCGGTCCCCGCTTT
 CTGGTCGCAAGATGTCCCTGCAGGAGCCGTCCCAGGGCGGGCCGCATCCAGCAGCAACAGCCTGGACAT
 GAATGGACGCTGCATCTGCCATCCCTGTCTACTACCAGCCAGCTCCCACAGTCTCTCCCCGGATG
 CCCCAGCCGCCACAGTAGAGTACACCACGTCTCCATTACCGGTTTGCAGGACTGCGTGCAGCTGAATC
 AGTACACCCTGAAGGATGAAATTGGAAAGGGCTCCTATGGTGTGCAAGCTGGCCTACAATGAAAATGA
 CAATACTTATTACGCAATGAAAGTGTGTCCAAAAGAAGCTGATCCGACAGGCTGGCTTCCACGTCGC
 CCCCCACCACGAGGAGCTCGCCAGCCCCAGGGGGCTGCATCCAGCCCAGGGGCCCATCGAGCAAGTGT
 ACCAGGAGATTGCTATCCTCAAAAAGCTGGATCATCCCAACGTGGTGAAGCTGGTAGAGGTCCTGGATGA
 CCCTAATGAGGACCATCTGTACATGGTGTGGTGGTGAACCAAGGGCCTGTAATGGAAGTGGCCACC
 CTCAAGCCACTGTCCGAAGACCAGGCCGCTTCTACTTCCAGGATCTGATCAAAGGCATAGAGTACTTGC
 ATTACCAGAAGATCATCCATCGGACATCAAACCTTCAAACCTCCTGGTGGGGGAAGACGGGCACATCAA
 GATTGCCGACTTCGGTGAAGCAACGAGTTCAAGGGCAGCGACGCCTTGTGTCTAACCCGTGGGCACA
 CCTGCCTTCATGGCACCCGAGTCGCTCTCAGAGACCCGCAAGATCTTCCGGAAAGGCGTTGGATGTTT
 GGGCCATGGGTGTGACGCTGTACTGCTTTGTCTTTGGCCAGTGCCTTTTCATGGATGAACGAATCATGTG
 TTTGCACAGTAAGATCAAGAGTCAAGCCCTGGAGTTTCCCGACCAGCCGATATAGCCGAAGACTTGAAA
 GATCTGATCACTCGGATGTTGGACAAAAATCCAGAGTCCAGGATTGTGGTGCCTGAAATCAAGCTGCACC
 CTTGGGTACGAGGCACGGGGCCGAGCCATTGCCGTGGAGGACGAGAACTGCACACTGGTTCGAGGTGAC
 CGAAGAGGAGGTGAGAAATTCAGTCAAACACATTTCCAGCCTGGCAACTGTGATCCTGGTAAAGACCATG
 ATTCGAAAGCGCTCATTCCGGAACCCGTTCAAGGTAGCCGCCGGGAGGAACGTTCCCTGTGAGCGCCTG
 GAAACCTGCTCACAAAAAACAACCAGGGAGTGGGAGCCCTTGTCTGAGCCCAAGGAAGCAAGGCAGCG
 AAGACAGCCCCCGGGGCCAGAGCCGGCCCTGTGGGGGAGGAGGAAGTGTCTTGTGAAAGGTGGTCCC
 TCGGTGAAAGTTGGGGGCTCCGGCCCTGGCTCCCCACCACGCATGCCTCCACTGCAGCCCGAGGAGG
 TGATGGAGCCGGAG**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001199676

Insert Size: 1767 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: This clone expresses the complete ORF with c-terminal tags of Myc-DDK

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_001199676.1 , NP_001186605.1
RefSeq Size:	4903 bp
RefSeq ORF:	1767 bp
Locus ID:	207565
UniProt ID:	Q8C078
Cytogenetics:	5 F
Gene Summary:	<p>Calcium/calmodulin-dependent protein kinase belonging to a proposed calcium-triggered signaling cascade involved in a number of cellular processes. Phosphorylates CAMK1, CAMK4 and CAMK1D (By similarity). Efficiently phosphorylates 5'-AMP-activated protein kinase (AMPK) trimer, including that consisting of PRKAA1, PRKAB1 and PRKAG1. This phosphorylation is stimulated in response to Ca(2+) signals (By similarity). May play a role in neurite growth. Isoform 2 may promote neurite elongation, while isoform 1 may promoter neurite branching (By similarity). May be involved in hippocampal activation of CREB1. [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and it encodes the longer protein (isoform 1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>