

Product datasheet for **SC123314**

CaMKK (CAMKK1) (NM_172207) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CaMKK (CAMKK1) (NM_172207) Human Untagged Clone
Tag:	Tag Free
Symbol:	CaMKK
Synonyms:	CAMKKA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_172207 edited
CCGCCCCCGGGCCGCGGACACTGTCGCCCCGGCGCCAGGTTCCCAACAAGGCTACGCAG
AAGAACCCCTTGACTGAAGCAATGGAGGGGGTCCAGCTGTCTGCTGCCAGGATCCTCG
GGCAGAGCTGGTAGAACGGGTGGCAGCCATCGATGTGACTCACTTGGAGGAGGCAGATGG
TGGCCCAGAGCCTACTAGAAACGGTGTGGACCCCCACCAGGGCCAGAGCTGCCTCTGT
GATCCCTGGCAGTACTTCAAGACTGCTCCAGCCCCGGCCTAGCCTCTCAGCCAGGAAGCT
TTCCCTACAGGAGCGGCCAGCAGGAAGCTATCTGGAGGCGCAGGCTGGGCCTTATGCCAC
GGGGCCTGCCAGCCACATCTCCCCCGGGCCTGGCGGAGGCCACCATCGAGTCCACCA
CGTGGCCATCTCAGATGCAGAGGACTGCGTGCAGCTGAACCAAGTACAAGTGCAGAGTGA
GATTGGCAAGGGTGCCTACGGTGTGGTGAAGGCTGGCTACAACGAAAGTGAAGACAGACA
CTATGCAATGAAAGTCTTTCCAAAAAGAAGTTACTGAAGCAGTATGGCTTCCACGTCG
CCCTCCCCGAGAGGGTCCAGGCTGCCAGGGAGGACCAGCCAAGCAGCTGCTGCCCT
GGAGCGGGTGTACCAGGAGATTGCCATCCTGAAGAAGCTGGACCAGTGAATGTGGTCAA
ACTGATCGAGGCTCTGGATGACCAGCTGAGGACAACCTCTATTTGGCCCTGCAGAACCA
GGCCCAGAAATATCCAGTTAGATTCAACAAATATCGCCAAGCCCCACTCCCTGCTTCCCTC
TGAGCAGCAAGACAGTGGATCCACGTGGGCTGCGCGCTCAGTGTTTGACCTCCTGAGAAA
GGGGCCCGTCATGGAAGTGCCCTGTGACAAGCCCTTCTCGGAGGAGCAAGCTCGCCTCTA
CCTGCGGGACGTCATCCTGGGCCTCGAGTACTTGCAGTCCAGAAAGATCGTCCACAGGGA
CATCAAGCCATCCAACCTGCTCCTGGGGATGATGGGCACGTGAAGATCGCCGACTTTGG
CGTCAGCAACCAGTTTGGGGGAACGACGCTCAGCTGTCCAGCACGGCGGGAACCCACAGC
ATTCATGGCCCCGAGGCCATTTCTGATTCGGCCAGAGCTTTCAGTGGGAAGGCCTTGGGA
CGATTTCACTCCTGGCCCTCCACAGGAAGATCAAGAATGAGCCCGTGGTGTTCCTGAGGG
GCCAGAAATCAGCGAGGAGCTCAAGGACCTGATCCTGAAGATGTTAGACAAGAATCCCGA
GACGAGAATTGGGGTCCAGACATCAAGTTGCACCCCTTGGGTGACCAAGAACGGGGAGGA
GCCCTTCTTCCGGAGGAGGAGCACTGCAGCGTGGTGGAGGTGACAGAGGAGGAGTTAA
GAACTCAGTCAGGCTCATCCCCAGCTGGACCACGGTGTCTGGTGAAGTCCATGCTGAG
GAAGCGTTCCTTTGGGAACCCGTTTGGCCCCAAGCACGGAGGGAAGAGCGATCCATGTC
TGCTCCAGGAAACCTACTGGTGAAGTACTGGTGGGCCAGGGACTGCCGGGCACTCCCTG
GAGTTGGGTGGGAGGTCTGAGGCCATCCTCCACTCTCACTGTCGTTGGGCCAAGGCC
AGAGCCTGGGGACTTGGCCAGGTCTCGGTGTTGGCCCCATTTGCATCTCTGTCCCAAGG
TTAGTCGGGGCTAGAAGGGACCTTTTGGGCCAGCTCTTGCTTCAATCCTGGGGCCAGCA
TCCTCACAACACACTTCCAGGGATGAGGAGCTCACGCAGCCCCCTCATGGGACAGGAA
GACCTTCTTCCATGCAGCTTGTGACTCTCTCACTGGGTCCAGCCCCCTTGGGGCTT
CAAATCTGTGGCCCCCTCAGCCCTTGGCAGCCTGGCAGAGGTTTGCAGACAGGCTGATGT
TGGCTTCTGTAGGAGGCTGGCGGGCTGTAGAGGAGGGGTGCTGGCCCCCTGCTGCCTGGCC
CTGGGGACTGTTGGTGTCTCCTCAAGTGGCCAGGCTGCCTGCAGCCATTGCTGGGGCT
GTGGACCACGGGAGAGGAACCCGATTGGCCGAGGGCTCCCTATGGTGAGCCACGCCTG
TGGGTTACCACCTCCTAGGAGGTCAGAAAAGCAGCTCCCAAGCCTGTGCGCCTCGT
CCTCAGCAGATCCACCTTCTTACTATAATAAAAGCCAGTCTGGGATGCTAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_172207 unedited NGGTTTGGATTTGTATACGACTCATATAGGCGGCCGCGNATTCCTCCGGGATCCGCCCGCCG GGCCGCGGACACTGTGCCCCGNGCGCCCCAGGTTCCCAACAAGGCTACGCAGAAGAACC CCTTGACTGAAGCAATGGAGGGGGTCCAGCTGTCTGCTGCCAGGATCCTCGGGCAGAGC TGGTAGAACGGGTGGCAGCCATCGATGTGACTCACTTGGAGGAGGCAGATGGTGGCCAG AGCCTACTAGAAACGGTGTGGACCCCCACCACGGGCCAGAGCTGCCTCTGTGATCCCTG GCAGTACTTCAAGACTGCTCCCAGCCCCGGCCTAGCCTCTCAGCCAGGAAGCTTTCCTAC AGGAGCGGCCAGCAGGAAGCTATCTGGAGGCGCAGGCTGGGCCTTATGCCACGGGGCCTG CCAGCCACATCTCCCCCGGGCCTGGCGGAGGCCACCATCGAGTCCCACCACGTGGCCA TCTCAGATGCAGAGGACTGCGTGCAGCTGAACCAGTACAAGCTGCAGAGTGAGATTGGCA AGGGTGCCTACGGTGTGGTGAAGCTGGCCTACAACGAAAGTGAAGACAGACACTATGCAA TGAAAGTCCTTTCAAAAAGAAGTTACTGAAGCAGTATGGCTTTCACGTCGCCCTCCCC CGAGAGGGTCCCAGGCTGCCAGGGAGGACCAGCAAGCAGCTGCTGCCCTGGAGCGGG TGTACCAGGAGATTGCCATCCTGAAGAAGCTGGACCACGTGAATGTGGTCAAAGTATCG AGGTCCTGNATGACCCAGCTGNNAGACACCTCTATTGGNCCTGCAGAAACCAGCCCCAG ATATCCAGTTAGATTCAACNATATCGCNCAGCCCCACTCCTGCTTCNTCTGAGCAGCA AGACAGTGGATCCACA
Restriction Sites:	Please inquire
ACCN:	NM_172207
Insert Size:	2469 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).
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_172207.1 , NP_757344.1
RefSeq Size:	2535 bp
RefSeq ORF:	1563 bp
Locus ID:	84254
UniProt ID:	Q8N5S9
Cytogenetics:	17p13.2
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Adipocytokine signaling pathway

Gene Summary:

The product of this gene belongs to the Serine/Threonine protein kinase family, and to the Ca(2+)/calmodulin-dependent protein kinase subfamily. This protein plays a role in the calcium/calmodulin-dependent (CaM) kinase cascade. Three transcript variants encoding two distinct isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (3) contains an additional segment in the coding region and uses an alternate splice site in the 3' coding region that results in a frameshift, compared to variant 1. It encodes isoform b which is longer, but has a shorter C-terminus compared to isoform a.