

## Product datasheet for **SC332956**

### **CAMKK2 (NM\_001270485) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CAMKK2 (NM_001270485) Human Untagged Clone
Tag:	Tag Free
Symbol:	CAMKK2
Synonyms:	CAMKK; CAMKKB
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_006549 edited  
 ATGTCATCATGTGTCTCTAGCCAGCCCAGCAGCAACCGGGCCGCCCCAGGATGAGCTG  
 GGGGGCAGGGGCAGCAGCAGCAGCGAAAGCCAGAAGCCCTGTGAGGCCCTGCGGGGCCTC  
 TCATCCTTGAGCATCCACCTGGGCATGGAGTCCTTATTGTGGTCACCGAGTGTGAGCCG  
 GGCTGTGCTGTGGACCTCGGCTTGGCGCGGGACCGGCCCTGGAGGCCGATGGCCAAGAG  
 GTCCCCCTTGACACCTCCGGGTCCCAGGCCCGGCCACCTCTCCGGTCGCAAGTGTCT  
 CTGCAAGAGCGGTCCCAGGGTGGGCTGGCAGCCGGTGGCAGCCTGGACATGAACGGACGC  
 TGCACTGCCCCGTCCCTGCCCTACTCACCGTCAGCTCCCCGAGTCCTCGCCTCGGCTG  
 CCCCAGCGGGCCGACAGTGGAGTCTCACCGTCTCCATCACGGGTATGCAGGACTGTGTG  
 CAGCTGAATCAGTATACCCTGAAGGATGAAATTGGAAAGGGCTCCTATGGTGTGCTCAAG  
 TTGGCCTACAATGAAAATGACAATACCTACTATGCAATGAAGGTGCTGTCCAAAAAGAAG  
 CTGATCCGGCAGGCCGGCTTCCACGTGCGCCTCCACCCGAGGCACCCGGCCAGCTCCT  
 GGAGGCTGCATCCAGCCCAGGGGCCCATTTGAGCAGGTGTACCAGGAAATGCCATCCTC  
 AAGAAGCTGGACCACCCCAATGTGGTGAAGCTGGTGGAGTCTGGATGACCCCAATGAG  
 GACCATCTGTACATGGTGTTCGAACTGGTCAACCAAGGGCCCGTATGGAAGTCCCACC  
 CTCAAACCACTCTCTGAAGACCAGGCCGTTTCTACTTCCAGGATCTGATCAAAGGCATC  
 GAGTACTTACACTACCAGAAGATCATCCACCGTACATCAAACCTTCAAACCTCCTGGTC  
 GGAGAAGATGGGCACATCAAGATCGCTGACTTTGGTGTGAGCAATGAATCAAGGGCAGT  
 GACGCGCTCCTCTCCAACACCGTGGGCACGCCCGCCTTATGGCACCCGAGTTCGCTCTCT  
 GAGACCCGCAAGATCTTCTCTGGGAAGGCCTTGGATGTTTGGGCCATGGGTGTGACACTA  
 TACTGCTTTGTCTTTGGCCAGTCCCATTCATGGACGAGCGGATCATGTGTTTACACAGT  
 AAGATCAAGAGTCAGGCCCTGGAATTTCCAGACCAGCCCGACATAGCTGAGGACTTGAAG  
 GACCTGATCACCCGTATGCTGGACAAGAACCCCGAGTCGAGGATCGTGGTGGCCGAAATC  
 AAGCTGCACCCCTGGGTACGAGGCATGGGGCGGAGCCGTTGCCGTCGGAGGATGAGAAC  
 TGCACGCTGGTCAAGTACTGAAGAGGAGTCAAGAACTCAGTCAAACACATTCCCAGC  
 TTGGCAACCGTATCCTGGTGAAGACCATGATACGTAACGCTCCTTTGGGAACCCATTC  
 GAGGGCAGCCGGCGGGAGGAACGCTCACTGTCAGCGCCTGGAAACTTGCTCACCAAAAA  
 CCAACCAGGGAATGTGAGTCCCTGTCTGAGCTCAAGGAAGCAAGGCAGCGAAGACAACCT  
 CCAGGGCACCCGCCGCCCGTGGGGAGGAGGAAGTCTCTTGTGAGAGGCAGTCCC  
 TCGCTGGAAGTTGCTGGGCCCGGCCCGGCTCCCCGCACGCATGCATCCACTGCGG  
 CCGGAGGAGGCCATGGAGCCCGAGTAG

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001270485

**Insert Size:** 4800 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).

<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><a href="#">NM_001270485.1</a></u> , <u><a href="#">NP_001257414.1</a></u>
<b>RefSeq Size:</b>	4966 bp
<b>RefSeq ORF:</b>	1767 bp
<b>Locus ID:</b>	10645
<b>UniProt ID:</b>	<u><a href="#">Q96RR4</a></u>
<b>Cytogenetics:</b>	12q24.31
<b>Protein Families:</b>	Druggable Genome, Protein Kinase, Transcription Factors
<b>Protein Pathways:</b>	Adipocytokine signaling pathway
<b>Gene Summary:</b>	<p>The product of this gene belongs to the Serine/Threonine protein kinase family, and to the Ca(2+)/calmodulin-dependent protein kinase subfamily. The major isoform of this gene plays a role in the calcium/calmodulin-dependent (CaM) kinase cascade by phosphorylating the downstream kinases CaMK1 and CaMK4. Protein products of this gene also phosphorylate AMP-activated protein kinase (AMPK). This gene has its strongest expression in the brain and influences signalling cascades involved with learning and memory, neuronal differentiation and migration, neurite outgrowth, and synapse formation. Alternative splicing results in multiple transcript variants encoding distinct isoforms. The identified isoforms differ in their ability to undergo autophosphorylation and to phosphorylate downstream kinases. [provided by RefSeq, Jul 2012]</p> <p>Transcript Variant: This variant (8) differs in the 5' UTR, compared to variant 1, and encodes isoform (1). Variants 1 and 8 encode the same protein (isoform 1).</p>