

## Product datasheet for **SC332957**

### **CAMKK2 (NM\_001270486) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CAMKK2 (NM_001270486) Human Untagged Clone
Tag:	Tag Free
Symbol:	CAMKK2
Synonyms:	CAMKK; CAMKKB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC332957 representing NM\_001270486.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGTCATCATGTGTCTCTAGCCAGCCAGCAGCAACCGGGCCGCCCCAGGATGAGCTGGGGGGCAGG
GGCAGCAGCAGCAGCAAAGCCAGAAGCCCTGTGAGGCCCTGCGGGGCCCTCATCCTTGAGCATCCAC
CTGGGCATGGAGTCCCTTATTGTGGTCACCGAGTGTGAGCCGGGCTGTGCTGTGGACCTCGGCTTGCG
CGGGACCGGCCCTGGAGGCCGATGGCCAAGAGGTCCCCCTTGACACCTCCGGGTCCAGGCCCGGCC
CACCTCTCCGGTCGCAAGCTGTCTCTGCAAGAGCGGTCCCAGGGTGGGCTGGCAGCCGGTGGCAGCCTG
GACATGAACGGACGCTGCATCTGCCCGTCCCTGCCCTACTCACCCGTGAGCTCCCGCAGTCTCGCCT
CGGCTGCCCGGGCGGCCAGAGTGGAGTCTCACACGTCTCCATCACGGGTATGCAGGACTGTGTGCAG
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GAAAATGACAATACCTACTATGCAATGAAGGTGTGTCCAAAAAGAAGCTGATCCGGCAGGCCGGCTTT
CCACGTGCCCCTCACCCCGAGGCACCCGGCCAGCTCCTGGAGGCTGCATCCAGCCAGGGGCCCCATT
GAGCAGGTGTACCAGAAATTGCCATCCTCAAGAAGCTGGACCACCCCAATGTGGTGAAGCTGGTGGAG
GTCCTGGATGACCCCAATGAGGACCATCTGTACATGGTGTTCGAACTGGTCAACCAAGGGCCCGTGATG
GAAGTGCCACCCTCAAACCACTCTCTGAAGACCAGGCCCGTTTCTACTTCCAGGATCTGATCAAAGGC
ATCGAGTACTTACACTACCAGAAGATCATCCACCGTGACATCAAACCTTCCAACCTCCTGGTCGGAGAA
GATGGGCACATCAAGATCGTACTTTGGTGTGAGCAATGAATTCAGGGCAGTGACCGCTCCTCTCC
AACCCGTGGGCACGCCCGCCTTATGGCACCCGAGTCTGCTGAGACCCGAAGATCTTCTCTGGG
AAGCCCTGGATGTTTGGCCATGGGTGTGACACTATACTGCTTTGTCTTTGGCCAGTCCCATTTCATG
GACGAGCGGATCATGTGTTTACACAGTAAGATCAAGAGTCAGGCCCTGGAATTTCCAGACCAGCCCGAG
ATAGCTGAGGACTTGAAGGACCTGATCACCCGTATGCTGGACAAGAACCCTGAGTCCGAGGATCGTGGTG
CCGAAATCAAGCTGCACCCCTGGGTACGAGGATGGGGCGGAGCCGTTGCCGTGCGAGGATGAGAAC
TGCACGCTGGTGAAGTACTGAAGAGGAGTGCAGAACTCAGTCAAACACATCCAGCTTGGCAACC
GTGATCCTGGTGAAGACCATGATACGTAACGCTCCTTTGGGAACCCATTCGAGGGCAGCCGGGGGAG
GAACGCTCACTGTGAGCGCTGGAACTTGCTCACAAAAACCAACCAGGGAATGTGAGTCCCTGTCT
GAGCTCAAGGGGACAAAAAAGGACTTGACTCCATGACGTGACCGTGGCCGCTGGCTGGCTG
GACAGCGGGTGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
  
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**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001270486

**Insert Size:** 1671 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>	<a href="#">NM_001270486.1</a>
<b>RefSeq Size:</b>	4523 bp
<b>RefSeq ORF:</b>	1671 bp
<b>Locus ID:</b>	10645
<b>UniProt ID:</b>	<a href="#">Q96RR4</a>
<b>Cytogenetics:</b>	12q24.31
<b>Protein Families:</b>	Druggable Genome, Protein Kinase, Transcription Factors
<b>Protein Pathways:</b>	Adipocytokine signaling pathway
<b>MW:</b>	61.4 kDa
<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 (9) lacks a segment in the 3' coding region and 3' UTR, which leads to a frameshift, compared to variant 1. The resulting isoform (7) contains a shorter and distinct C-terminus compared to isoform 1.</p>