

Product datasheet for **SC124175**

CAMKK2 (NM_006549) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CAMKK2 (NM_006549) Human Untagged Clone
Tag:	Tag Free
Symbol:	CAMKK2
Synonyms:	CAMKK; CAMKKB
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</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
 TGCACTTGCCCGTCCCTGCCCTACTCACCGTCAGCTCCCCGAGTCCTCGCCTCGGCTG
 CCCCAGCGGCCGACAGTGGAGTCTCACCGTCTCCATCACGGGTATGCAGGACTGTGTG
 CAGCTGAATCAGTATACCCTGAAGGATGAAATTGGAAAGGGCTCCTATGGTGTCTCAAG
 TTGGCCTACAATGAAAATGACAATACCTACTATGCAATGAAGGTGCTGTCCAAAAAGAAG
 CTGATCCGGCAGGCCGGCTTCCACGTGCGCCTCACCCCGAGGCACCCGGCCAGTCTCT
 GGAGGCTGCATCCAGCCCAGGGGCCCATTTGAGCAGGTGTACCAGGAAATGCCATCCTC
 AAGAAGCTGGACCACCCAATGTGGTGAAGCTGGTGGAGTCTGGATGACCCCAATGAG
 GACCATCTGTACATGGTGTTCGAACTGGTCAACCAAGGGCCCGTATGGAAGTCCCACC
 CTCAAACCACTCTCTGAAGACCAGGCCGTTTCTACTTCCAGGATCTGATCAAAGGCATC
 GAGTACTTACACTACCAGAAGATCATCCACCGTACATCAAACCTTCAAACCTCCTGGTC
 GGAGAAGATGGGCACATCAAGATCGCTGACTTTGGTGTGAGCAATGAATCAAGGGCAGT
 GACGCGCTCCTCTCCAACACCGTGGGCACGCCCGCCTTATGGCACCCGAGTTCGCTCTCT
 GAGACCCGCAAGATCTTCTCTGGGAAGGCCTGGATGTTTGGGCCATGGGTGTGACACTA
 TACTGCTTTGTCTTTGGCCAGTCCCATTCATGGACGAGCGGATCATGTGTTTACACAGT
 AAGATCAAGAGTCAGGCCCTGGAATTTCCAGACCAGCCCGACATAGCTGAGGACTTGAAG
 GACCTGATCACCCGTATGCTGGACAAGAACCAGTTCGAGGATCGTGGTGGCCGAAATC
 AAGCTGCACCCCTGGGTACGAGGCATGGGGCGGAGCCGTTGCCGTCGGAGGATGAGAAC
 TGACGCTGGTCAAGTACTGAAGAGGAGTCAAGAACTCAGTCAAACACATTCCCAGC
 TTGGCAACCGTATCCTGGTGAAGACCATGATACGTAACGCTCCTTTGGGAACCCATTC
 GAGGGCAGCCGGCGGGAGGAACGCTCACTGTCAGCGCCTGAAACTTGCTCACCAAAAA
 CCAACCAGGGAATGTGAGTCCCTGTCTGAGCTCAAGGAAGCAAGGCAGCGAAGACAACCT
 CCAGGGCACCCGCCGCCCGTGGGGGAGGAGGAAGTGTCTTGTGAGAGGCAGTCCC
 TCGTGGAAAGTTGCTGGGCCCCCGCCCGGCTCCCCGCACGCATGCATCCACTGCGG
 CCGGAGGAGCCATGGAGCCCGAGTAG

Restriction Sites: EcoRI-XbaI

ACCN: NM_006549

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_006549.3 , NP_006540.3
RefSeq Size:	5620 bp
RefSeq ORF:	1767 bp
Locus ID:	10645
UniProt ID:	Q96RR4
Cytogenetics:	12q24.31
Domains:	pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase, Transcription Factors
Protein Pathways:	Adipocytokine signaling pathway
Gene Summary:	<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 (1), also known as beta 1, represents the longest transcript, and encodes the longest isoform (1). Variants 1 and 8 encode the same protein (isoform 1).</p>