

## Product datasheet for SC207375

### CAMKK2 (NM\_172214) Human 3' UTR Clone

#### Product data:

Product Type:	3' UTR Clones
Product Name:	CAMKK2 (NM_172214) Human 3' UTR Clone
Symbol:	CAMKK2
Synonyms:	CAMKK; CAMKKB
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_172214
Insert Size:	566 bp
Insert Sequence:	<p>&gt;SC207375 3'UTR clone of NM_172214</p> <p>The sequence shown below is from the reference sequence of NM_172214. The complete sequence of this clone may contain minor differences, such as SNPs.</p> <p>Blue=Stop Codon Red=Cloning site</p>

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAACGATCGCC
TGTGAGTCCCTGTCTGAGCTCAAGACCTAGAAAATAAGTCCCCTTCCTGCCTGTTGCAAAGTAACGTAA
GAGTTCCTCACCAGTGGATGCAGACCTTCTTGCTGCAGCCACCCTTCCTTCATACACATAGCCAG
CCCAGGTGACCAGAACCTCCCAGGACAGATGAGGCTTTGTGCTTATGAGACTGGGAGAACCTGCTGG
GCACCCCTGCTGCAGGTGCTGTGGTGGGTGGGACCCCACTGCCCTTCCCACTGAGCACATCATGGCTA
CCTGACTTGGTGGGAGCTCCAGGCAGTCACTTCTGTTTCTAAACATAGCTTTACTGAGGTACAATTCA
CATACCATGTAATTACCCACGGGAAGTGTATGATTCAAGTGGTTTCTAATACAGACTTCTGCAGCCATT
ACCACCGTCAACTTTACGACATTTTCATCAGCCCAAGAAGACACCCTACACTCCTTAGCTGTCCCATC
CAACTCCCCACCCAGTAACCACTCAGAATAGGTATGGATTGGCTATTCTGGACGTTTCGTATAAAT
GGCGTCATACACTA
ACGCGTAAGCGGCCGCGGCATCTAGATTCTGAAGAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
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Restriction Sites: SgfI-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).


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Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	<a href="#">NM_172214.3</a>
Summary:	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]
Locus ID:	10645
MW:	21.2