

## Product datasheet for **RC203468**

### **CAMKK2 (NM\_172226) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CAMKK2 (NM_172226) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CAMKK2
Synonyms:	CAMKK; CAMKKB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RG203468 representing NM\_172226  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTCATCATGTGTCTCTAGCCAGCCCAGCAGCAACCGGGCCGCCCCAGGATGAGCTGGGGGCAGGG  
 GCAGCAGCAGCAGCGAAAGCCAGAAGCCCTGTGAGGCCCTGCGGGGCCTCTCATCCTTGAGCATCCACCT  
 GGGCATGGAGTCTTCATTGTGGTCACCGAGTGTGAGCCGGGCTGTGCTGTGGACCTCGGCTTGGCGCGG  
 GACCGGCCCTGGAGGCCGATGGCCAAGAGGTCCCCCTTGACTCCTCCGGGTCCAGGCCCGGCCACC  
 TCTCCGGTCGCAAGCTGTCTCTGCAAGAGCGGTCCAGGGTGGGCTGGCAGCCGGTGGCAGCCTGGACAT  
 GAACGGACGCTGCATCTGCCCGTCCCTGCCCTACTCACCCGTGAGTCCCGCAGTCTCGCCTCGGCTG  
 CCCCAGCGGCCGACAGTGGAGTCTCACACGTCTCCATCACGGGTATGCAGGACTGTGTGCAGTGAATC  
 AGTATACCCTGAAGGATGAAATTGGAAAGGGCTCCTATGGTGTCTCAAGTTGGCCTACAATGAAAATGA  
 CAATACCTACTATGCAATGAAGGTGCTGTCCAAAAGAAGCTGATCCGGCAGGCCGGCTTCCACGTCGC  
 CCTCCACCCCGAGGCACCCGGCCAGCTCCTGGAGGCTGCATCCAGCCAGGGGCCCCATTGAGCAGGTGT  
 ACCAGGAAATTGCCATCCTCAAGAAGCTGGACCACCCCAATGTGGTGAAGCTGGTGGAGGTCTGGATGA  
 CCCCAATGAGGACCATCTGTACATGGTGTTCGAACTGGTCAACCAAGGGCCCGTATGGAAGTGGCCACC  
 CTCAAACCACTCTCTGAAGACCAGGCCGTTTCTACTTCCAGGATCTGATCAAAGGCATCGAGTACTTAC  
 ACTACCAGAAGATCATCCACCGTGACATCAAACCTTCAAACCTCCTGGTCGGAGAAGATGGGCACATCAA  
 GATCGTGACTTTGGTGTGAGCAATGAATTAAGGGCAGTGACGCGCTCCTCTCCAACACCGTGGGCACG  
 CCCGCTTTCATGGCACCCGAGTCGCTCTCTGAGACCCGCAAGATCTTCTCTGGGAAGGCCTTGGATGTTT  
 GGGCCATGGGTGTGACACTATACTGCTTTGTCTTTGGCCAGTGCCATTTCATGGACGAGCGGATCATGTG  
 TTTACACAGTAAGATCAAGAGTCAGGCCCTGGAATTTCCAGACCAGCCCGACATAGCTGAGGACTTGAAG  
 GACCTGATCACCCGTATGCTGGACAAGAACCCGAGTCGAGGATCGTGGTGCAGGAAATCAAGCTGCACC  
 CCTGGGTCACGAGGCATGGGGCGGAGCCGTTGCCGTGCGAGGATGAGAACTGCACGCTGGTGAAGTGC  
 TGAAGAGGAGGTGAGAACTCAGTCAAACACATTTCCAGCTTGGCAACCGTATCCTGGTGAAGACCATG  
 ATACGTAACGCTCCTTTGGGAACCCATTCGAGGGCAGCCGGCGGGAGGAACGCTCACTGTCAGCGCCTG  
 GAAACTTGCTCACGAAGCAAGGCAGCGAAGACAACCTCCAGGGCACCGACCCGCCCCCGTGGGGGAGGA  
 GGAAGTGTCTTG

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Restriction Sites:**

Sgfl-Mlul



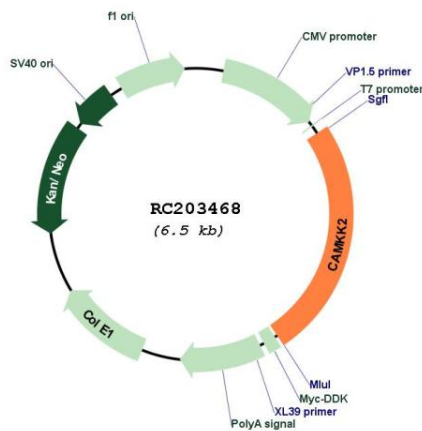
**Protein Families:** Druggable Genome, Protein Kinase, Transcription Factors

**Protein Pathways:** Adipocytokine signaling pathway

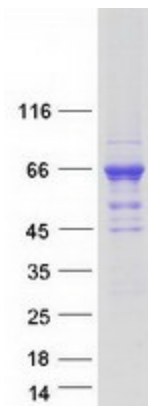
**MW:** 59.6 kDa

**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. 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]

**Product images:**



Circular map for RC203468



Coomassie blue staining of purified CAMKK2 protein (Cat# [TP303468]). The protein was produced from HEK293T cells transfected with CAMKK2 cDNA clone (Cat# RC203468) using MegaTran 2.0 (Cat# [TT210002]).