

Product datasheet for **RG206389**

CaMKK (CAMKK1) (NM_172207) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CaMKK (CAMKK1) (NM_172207) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CaMKK
Synonyms:	CAMKKA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG206389 representing NM_172207
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGGGGGTCCAGCTGTCTGCTGCCAGGATCCTCGGCAGAGCTGGTAGAACGGGTGCCAGCCATCG
 ATGTGACTCACTTGGAGGAGGCAGATGGTGGCCAGAGCCTACTAGAAACGGTGTGGACCCACCACAG
 GGCCAGAGCTGCCTCTGTGATCCCTGGCAGTACTTCAAGACTGCTCCAGCCCGGCTAGCCTCTCAGCC
 AGGAAGCTTCCCTACAGGAGCGGCCAGCAGGAAGCTATCTGGAGGCGCAGGCTGGGCCTTATGCCACGG
 GGCCTGCCAGCCACATCTCCCCCGGGCTGGCGGAGGCCACCATCGAGTCCCACCACGTGGCCATCTC
 AGATGCAGAGGACTGCGTGCAGCTGAACCAGTACAAGTGCAGAGTGAGATTGGCAAGGGTGCCTACGGT
 GTGGTGAAGCTGGCCTACAACGAAAGTGAAGACAGACACTATGCAATGAAAGTCTTTCCAAAAAGAAGT
 TACTGAAGCAGTATGGCTTCCACGTGCGCCTCCCCGAGAGGGTCCCAGGCTGCCAGGGAGGACCAGC
 CAAGCAGCTGCTGCCCTGGAGCGGGTGTACCAGGAGATTGCCATCCTGAAGAAGCTGGACCACGTGAAT
 GTGGTCAAAGTATCGAGGCTCGGATGACCCAGCTGAGGACAACCTCTATTTGGCCCTGCAAGAACCAGG
 CCCAGAATATCCAGTTAGATTCAACAAATATCGCCAAGCCCCACTCCCTGCTTCCCTCTGAGCAGCAAGA
 CAGTGGATCCACGTGGGCTGCGCGCTCAGTGTGACCTCCTGAGAAAGGGGCCCGTATGGAAGTGCC
 TGTGACAAGCCCTTCTCGGAGGAGCAAGCTCGCCTCTACCTGCGGACGTCATCCTGGGCCTCGAGTACT
 TGCAGTCCAGAAAGATCGTCCACAGGGACATCAAGCCATCCAACCTGCTCCTGGGGGATGATGGGCACGT
 GAAGATCGCCGACTTTGGCGTCAGCAACCAGTTTGAGGGGAACGACGCTCAGCTGTCCAGCACGGCGGGA
 ACCCCAGCATTTCATGGCCCCGAGGCCATTTCTGATTCCGGCCAGAGCTTCAGTGGGAAGGCCTTGGATG
 TATGGCCACTGGCGTACGTTTGTACTGCTTTGTCTATGGGAAGTGGCCATTCATCGACGATTTTCATCCT
 GGCCCTCCACAGGAAGATCAAGAATGAGCCCGTGGTGTTCCTGAGGGGCCAGAAATCAGCGAGGAGCTC
 AAGGACCTGATCCTGAAGATGTTAGACAAGAATCCCGAGACGAGAATTGGGGTGCAGACATCAAGTTGC
 ACCCTTGGGTGACCAAGAACGGGGAGGAGCCCTTCTTCCGAGGAGGAGCACTGCAGCGTGGTGGAGGT
 GACAGAGGAGGAGGTTAAGAACTCAGTCAGGCTCATCCCCAGCTGGACCACGGTATCCTGGTGAAGTCC
 ATGCTGAGGAAGCGTTCCTTTGGGAACCCGTTTGGCCCCAAGCAGGAGGGAAGAGCGATCCATGTCTG
 CTCCAGGAAACCTACTGGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG206389 representing NM_172207
 Red=Cloning site Green=Tags(s)

MEGGPAVCCQDPRAELVERVAAIDVTHLEADGGPEPTRNGVDPPPRARAASVIPGSTSRLLPARPSLSA
 RKL SLQERPAGSYLEAQAGPYATGPASHISPRAWRRPTIESHHVAISDAEDCVQLNQYKLQSEIGKGAYG
 VVRLAYNESEDRHYAMKVL SKKLLKQYFPRPPRGSQAAQGGPAKQLLPLERVYQEIAILKKLDHVN
 VVKLIEVLDDPAEDNLYLALQNQAQNIQLDSTNIAKPHSLLPSEQQDSGSTWAARSVFDLLRKGPVMEVP
 CDKPFSEEQARLYLRDVLGLLEYLHCQKIVHRDIKPSNLLL GDDGHVKIADFVSNQFEGNDAQLSSTAG
 TPAFMAPEAISDSGQSFSGKALDVWATGVTL YCFVYKCPFIDDFILALHRKIKNEPVVFPPEPSEI
 SEEL KDLILKMLDKNPETRIGVPDIKLPWVTKNGEELPSEEEHCSVVEVTEEEVKNSVRLIPSWTTVILVKS
 MLRKRFSGNPFEPQARREERSMSAPGNLLV

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_172207

ORF Size: 1560 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:

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_172207.1](#), [NP_757344.1](#)

RefSeq Size: 2535 bp

RefSeq ORF: 1563 bp

Locus ID: 84254

UniProt ID: [Q8N5S9](#)

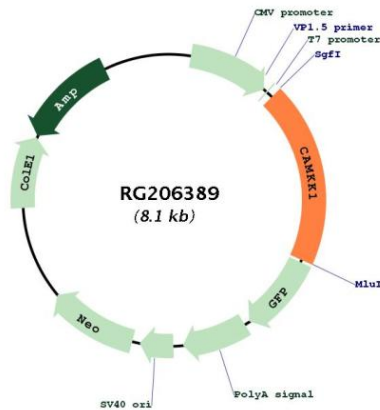
Cytogenetics: 17p13.2

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Adipocytokine signaling pathway

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. This protein plays a role in the calcium/calmodulin-dependent (CaM) kinase cascade. Three transcript variants encoding two distinct isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG206389