

Product datasheet for **RG218931**

CaMKK (CAMKK1) (NM_172206) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CaMKK (CAMKK1) (NM_172206) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CAMKK1
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:

>RG218931 representing NM_172206
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGGGGGTCCAGCTGTCTGCTGCCAGGATCCTCGGCAGAGCTGGTAGAACGGGTGCCAGCCATCG
 ATGTGACTCACTTGGAGGAGGCAGATGGTGGCCAGAGCCTACTAGAAACGGTGTGGACCCACCACG
 GGCCAGAGCTGCCTCTGTGATCCCTGGCAGTACTTCAAGACTGCTCCAGCCCGGCTAGCCTCTCAGCC
 AGGAAGCTTCCCTACAGGAGCGGCCAGCAGGAAGCTATCTGGAGGCGCAGGCTGGGCTTATGCCACGG
 GGCCTGCCAGCCACATCTCCCCCGGGCTGGCGGAGGCCACCATCGAGTCCCACCACGTGGCCATCTC
 AGATGCAGAGGACTGCGTGCAGCTGAACCAGTACAAGCTGCAGAGTGAGATTGGCAAGGGTGCCTACGGT
 GTGGTGAAGCTGGCCTACAACGAAAGTGAAGACAGACACTATGCAATGAAAGTCTTTCCAAAAAGAAGT
 TACTGAAGCAGTATGGCTTCCACGTGCGCCTCCCCGAGAGGGTCCCAGGCTGCCAGGGAGGACCAGC
 CAAGCAGCTGCTGCCCTGGAGCGGGTGTACCAGGAGATTGCCATCCTGAAGAAGCTGGACCACGTGAAT
 GTGGTCAAATGATCGAGGTCCTGGATGACCCAGCTGAGGACAACCTCTATTTGGTGTGGTACCTCCTGA
 GAAAGGGGCCCGTCATGGAAGTGCCTGTGACAAGCCCTTCTCGGAGGAGCAAGCTCGCCTCTACCTGCG
 GGACGTATCCTGGGCTCGAGTACTTGCAGTGCAGAAAGATCGTCCACAGGGACATCAAGCCATCCAAC
 CTGCTCCTGGGGATGATGGGCAGTGAAGATCGCCGACTTTGGCGTCAGCAACCAGTTTGGGGGAACG
 ACGCTCAGCTGTCCAGCAGCGCGGGAACCCAGCATTATGGCCCCGAGGCCATTTCTGATTCGGCCA
 GAGCTTCAAGTGGGAAGCCCTTGGATGTATGGGCCACTGGCGTACGTTGTACTGCTTTGTCTATGGGAAG
 TGCCATTATCGACGATTTATCTGCGCCTCCACAGGAAGATCAAGAATGAGCCCGTGGTGTTCCTG
 AGGAGCCAGAAATCAGCGAGGAGCTCAAGGACCTGATCCTGAAGATGTTAGACAAGAATCCCGAGCAG
 AATTGGGGTGCCAGACATCAAGTTGCACCTTGGGTGACCAAGAACGGGGAGGAGCCCTTCTCCTCGGAG
 GAGGAGCACTGCAGCGTGGTGGAGGTGACAGAGGAGGTTAAGAACTCAGTCAGGCTCATCCCCAGCT
 GGACCACGGTATCCTGGTGAAGTCCATGCTGAGGAAGCGTTCCTTTGGGAACCCGTTTGGCCCCAAGC
 ACGGAGGGAAGAGCGATCCATGTCTGCTCCAGGAAACCTACTGGTGAAGAAGGGTTTGGTGAAGGGGG
 AAGAGCCAGAGCTCCCCGGCTCCAGGAAGACGAGGCTGCATCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG218931 representing NM_172206
 Red=Cloning site Green=Tags(s)

MEGGPAVCCQDPRAELVERVAIDVTHLEEDGGPEPTRNGVDPPPRARAASVIPGSTRLLPARPSLSA
 RKL SLQERPAGSYLEAQAGPYATGPASHISPRAWRRPTIESHHVAISDAEDCVQLNQYKLQSEIGKGAYG
 VVRLAYNESEDRHYAMKVL SKKKLLKQYFPRRPPRGSQAAQGGPAKQLLPLERVYQEIAILKKLDHVN
 VVKLIEVLDDPAEDNLYLVFDLLRKGPMVEVPCDKPFSEEQARLYLRDVLGLLEYLHCQKIVHRDIKPSN
 LLLGDDGHVKIADFGVSNQFEGNDQLSSTAGTPAFMAPEAISDSGQSFSGKALDVWATGVTL YCFVYGK
 CPFIDDFILALHRKIKNEPVVFPPEEPEISEELKDLILKMLDKNPETRIGVPDIKLPVWTKNGEPLPSE
 EEHCSVVEVTEEEVKNSVRLIPSWTTVILVKSMLRKRFSGNPFEPQARREERSMSAPGNLLVKEGFGE
 KSPPELPGVQDEEAAS

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:

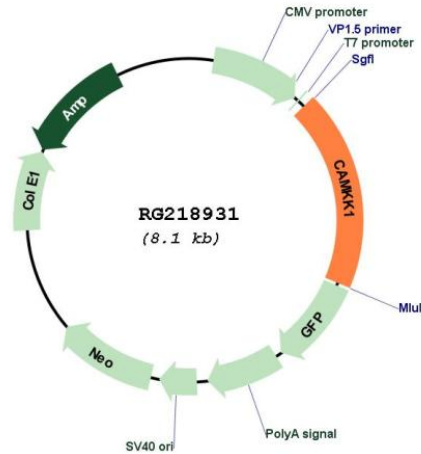


EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI
 CTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGCCAGATCT

HindIII NheI RsrII MluI NotI XhoI GFP Tag
 CAAGCTTAACTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---
 T R T R P L E M E S D - - -

PmeI FseI
 --- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT
 - - E E R V Stop

Plasmid Map:



ACCN: NM_172206

ORF Size: 1515 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:	<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_172206.1 , NP_757343.2
RefSeq Size:	3529 bp
RefSeq ORF:	1599 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]