

Product datasheet for **RG208102**

CaMKK (CAMKK1) (NM_032294) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CaMKK (CAMKK1) (NM_032294) 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:

>RG208102 representing NM_032294
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGGGGGTCCAGCTGTCTGCTGCCAGGATCCTCGGCAGAGCTGGTAGAACGGGTGCCAGCCATCG
 ATGTGACTCACTTGGAGGAGGCAGATGGTGGCCAGAGCCTACTAGAAACGGTGTGGACCCCCACCACG
 GGCCAGAGCTGCCTCTGTGATCCCTGGCAGTACTTCAAGACTGCTCCAGCCCGGCTAGCCTCTCAGCC
 AGGAAGCTTCCCTACAGGAGCGGCCAGCAGGAAGCTATCTGGAGGCGCAGGCTGGGCCTTATGCCACGG
 GGCCTGCCAGCCACATCTCCCCCGGCCCTGGCGGAGGCCACCATCGAGTCCCACCACGTGGCCATCTC
 AGATGCAGAGGACTGCGTGCAGCTGAACCAGTACAAGCTGCAGAGTGAGATTGGCAAGGGTGCCTACGGT
 GTGGTGAAGCTGACGCTACAACGAAAGTGAAGACAGACACTATGCAATGAAAGTCTTTCCAAAAAGAAGT
 TACTGAAGCAGTATGGCTTCCACGTGCGCCTCCCCGAGAGGGTCCCAGGCTGCCAGGGAGGACCAGC
 CAAGCAGCTGCTGCCCTGGAGCGGGTGTACCAGGAGATTGCCATCCTGAAGAAGCTGGACCACGTGAAT
 GTGGTCAAACGATCGAGGTCCTGGATGACCCAGCTGAGGACAACCTCTATTTGGTGTGGTACCTCCTGA
 GAAAGGGGCCCGTCATGGAAGTGCCTGTGACAAGCCCTTCTCGGAGGAGCAAGCTCGCCTCTACCTGCG
 GGACGTATCCTGGGCTCGAGTACTTGCAGTGCAGAAAGATCGTCCACAGGGACATCAAGCCATCCAAC
 CTGCTCCTGGGGATGATGGGCAGTGAAGATCGCCGACTTTGGCGTCAGCAACCAGTTTGGGGGAACG
 ACGCTCAGCTGTCCAGCAGCGCGGGAACCCAGCATTATGGCCCCGAGGCCATTTCTGATTCGGCCA
 GAGCTTCAAGTGGGAAGCCCTTGGATGTATGGGCCACTGGCGTACGTTGTACTGCTTTGTCTATGGGAAG
 TGCCATTTCATCGACGATTTTCATCTGGCCCTCCACAGGAAGATCAAGAATGAGCCCGTGGTGTTCCTG
 AGGAGCCAGAAATCAGCGAGGAGCTCAAGGACCTGATCCTGAAGATGTTAGACAAGAATCCCGAGACGAG
 AATTGGGGTGCCAGACATCAAGTTGCACCTTGGGTGACCAAGAACGGGGAGGAGCCCTTCTCCTCGGAG
 GAGGAGCACTGCAGCGTGGTGGAGGTGACAGAGGAGGTTAAGAACTCAGTCAGGCTCATCCCCAGCT
 GGACCACGGTATCCTGGTGAAGTCCATGCTGAGGAAGCGTTCCTTTGGGAACCCGTTTGGCCCCAAGC
 ACGGAGGGAAGAGCGATCCATGTCTGCTCCAGGAAACCTACTGGTGAAGAAGGGTTTGGTGAAGGGGG
 AAGAGCCAGAGCTCCCCGGCTCCAGGAAGACGAGGCTGCATCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG208102 representing NM_032294
 Red=Cloning site Green=Tags(s)

MEGGPAVCCQDPRAELVERVAIDVTHLEEDGGPEPTRNGVDPPPRARAASVIPGSTRLLPARPSLSA
 RKL SLQERPAGSYLEAQAGPYATGPASHISPRAWRRPTIESHHVAISDAEDCVQLNQYKLQSEIGKGAYG
 VVRLAYNESEDRHYAMKVL SKKKLLKQYFPRRPPRGSQAAQGGPAKQLLPLERVYQEIAILKKLDHVN
 VVKLIEVLDDPAEDNLYLVFDLLRKGPMVEVPCDKPFSEEQARLYLRDVLGLLEYLHCQKIVHRDIKPSN
 LLLGDDGHVKIADFGVSNQFEGNDAQLSSTAGTPAFMAPEAISDSGQSFSGKALDVWATGVTLYCFVYGK
 CPFIDDFILALHRKIKNEPVVFPPEEPISEELKDLILKMLDKNPETRIGVPDIKHPVWTKNGEPLPSE
 EEHCVVVEVTEEEVKNSVRLIPSWTTVILVKSMRLKRSFGNPFEPQARREERSMSAPGNLLVKEGFGE
 KSPPELPGVQDEEAAS

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_032294

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:

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_032294.3](#)

RefSeq Size: 3583 bp

RefSeq ORF: 1518 bp

Locus ID: 84254

UniProt ID: [Q8N5S9](#)

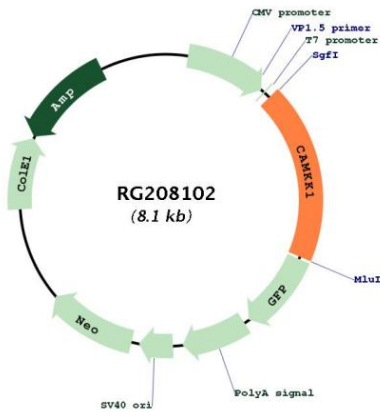
Cytogenetics: 17p13.2

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 RG208102