

Product datasheet for **RR202309**

Camk4 (NM_012727) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Camk4 (NM_012727) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Camk4
Synonyms:	Ccdpk; RATCCDPK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR202309 representing NM_012727
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTCAAAGTCACGGTGCCCTCCTGTCCCTCCTCGCCCTGCTCCTCGGTACCTCCAGTACTGAGAACC
 TCGTCCCGGATTACTGGATCGACGGCTCTAAACGGGATCCTCTGAGCGATTTCTTCGAGGTGGAGTCAGA
 GCTGGGACGGGGTCTACATCCATTGTGTACAGATGCAAACAGAAGGGGACCCAGAACCCCTATGCTCTC
 AAAGTGTAAAGAAAACAGTGGACAAGAAGATCGTGAGAACTGAAATAGGAGTTCTCCTGAGACTCTCAC
 ACCCGAACATCATAAACTCAAGGAAATATTTGAAACCCACAGAAATCAGCCTGGTTCTTGAGCTAGT
 CACAGGAGGAGAAGTGTGGACAGGATTGTGGAGAAAGGCTATTACAGTGAACGCGACGCGGCCGATGCT
 GTGAAGCAGATCCTGGAGGCAGTTGCTTACCTGCACGAAAATGGAATCGTCCATCGCGACCTCAAACCGAG
 AGAATCTTCTTTATGCAACGCCAGCCCTGATGCACCACTCAAATTTGCTGATTTTGGACTTTCTAAAT
 CGTGGAACATCAAGTGTCTATGAAGACGGTGTGTGGAACCCCGGGTACTGTGCACCTGAGATTCTCCGA
 GGCTGTGCCTATGGCCCCGAGGTGGACATGTGGTCTGTAGGAATAATTACCTACATCCTACTTTGTGGAT
 TTGAACATTCTATGATGAGAGAGGTGATCAGTTCATGTTTCAGGAGAATTCTGAATTGTGAATTAATCT
 TATCTCCCTGGTGGGATGAAGTTTCTTAAATGCCAAGGACTTGGTCAAGAACTCATTGTTTTGGAC
 CCTAAGAAGCGGCTGACTACATTCGAAGCCCTCCAACACCCGTTGGTTCACAGGAAAAGCAGCCAACCTTG
 TCCACATGGATACCGCTCAGAAAAGCTTCAAGAATTCATGCTAGGCGCAAGCTTAAGGCGGCAGTGAA
 GGCTGTGGTGGCTCTTCTCGGCTGGGAAGTCCAGCAGCAGTACACCAACATCCAAGAAAAGCAACAAA
 GCCAGCTCGGAGGCACAGCCCGCCCAAGACGGCAAGGACAAGACAGATCCTCTGGAAAACAAAATGCAAG
 CGGGGACCACGAGGCACCAAGGCTGCAGCCGATGAGACGATGAAGCTACAGTCCGAGGAGGTGGAGGA
 AGAGGAAGGTGTAAAAGAAGAGGAGGAAGGAAGGAAGGAAGAGGAGACCTCCAGGATGGTACCTCAG
 GAGCCAGAGGACAGGCTGGAGACAGATGACCAGGAAATGAAGAGAAATTCAGAGGAGACGTTGAAGAGTG
 TGGAGGAAGAAATGGACCCGAAAGCTGAGGAGGAAGCCGCTGCCGTGGGACTTGGGGTCCCTCCACAGCA
 GGATGCTATTCTGCCAGAGTAC

ACGCGTACGCGGCCGCTCGAGCAGAAAACATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR202309 representing NM_012727
 Red=Cloning site Green=Tags(s)

MLKVTVPSPSSPCSSVTSSTENLVPDYWIDGSKRDPLSDFFEVESELGRGATSIYVRCKQKGTQKPYAL
 KVLKKTVDKKIVRTEIGVLLRLSHPNIIKLKEIFETPTEISLVLELVTGGELFDRIIVEKGYSSERDAADA
 VKQILEAVAYLHENGIVHRDLKPENLLYATPAPDAPLKIADFGLSKIVEHQVLMKTVCGTPGYCAPEILR
 GCAYGPEVDMWSVGIITYILLCGFEPFYDERGDQFMFRRIILNCEYYFISPPWDEVSLNAKDLVKKLIVLD
 PKKRLTTFQALQHPWVTGKAANFVHMDTAQKKLQEFNARRKLKAAVKAVVASSRSLGSASSSHTNIQESNK
 ASSEAQPAQDGDKDPLENKMQAQDHEAAKAAADETMKLQSEEEVEEGVKEEEEEEEEEETSRMVPQ
 EPEDRLETDQEMKRNSEETLKSVEEEMDPKAEAAAAGLGVPPQDAILPEY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_012727

ORF Size: 1422 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_012727.3](#), [NP_036859.2](#)

RefSeq Size: 1803 bp

RefSeq ORF: 1425 bp

Locus ID: 25050

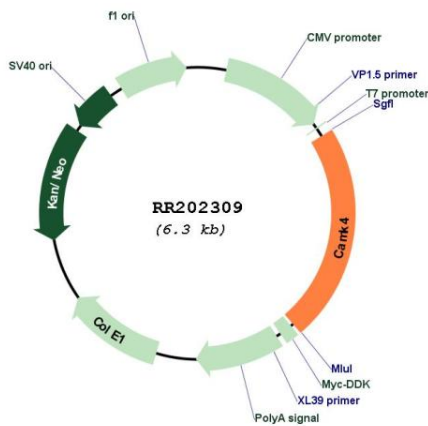
UniProt ID: [P13234](#)

Cytogenetics: 18p12

MW: 53.2 kDa

Gene Summary: protein kinase that phosphorylates synapsin I; involved in neuronal calcium signaling; alternative transcript produces calspermin protein [RGD, Feb 2006]

Product images:



Circular map for RR202309