

## Product datasheet for **RN202309**

### Camk4 (NM\_012727) Rat Untagged Clone

#### Product data:

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



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**Fully Sequenced ORF:** >RN202309 representing NM\_012727  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCTCAAAGTCACGGTGCCTCCTGTCCCTCCTCGCCCTGCTCCTCGGTACCTCCAGTACTGAGAACC  
 TCGTCCCGGATTACTGGATCGACGGCTCTAAACGGGATCCTCTGAGCGATTTCTTCGAGGTGGAGTCAGA  
 GCTGGGACGGGGTCTACATCCATTGTGTACAGATGCAAACAGAAGGGGACCCAGAACCCCTATGCTCTC  
 AAAGTGTTAAAGAAAACAGTGGACAAGAAGATCGTGAGAACTGAAATAGGAGTTCTCCTGAGACTCTCAC  
 ACCCGAACATCATAAACTCAAGGAAATATTTGAAACCCACAGAAATCAGCCTGGTTCTTGAGCTAGT  
 CACAGGAGGAGAAGTGTGGAGGATTGTGGAGAAAGGCTATTACAGTGAACGCGACGCGGCCGATGCT  
 GTGAAGCAGATCCTGGAGGCAGTTGCTTACCTGCACGAAAATGGAATCGTCCATCGGACCTCAAACCGA  
 AGAATCTTCTTTATGCAACGCCAGCCCCTGATGCACCACTCAAATTTGCTGATTTTGGACTTTCTAAAT  
 CGTGGAACATCAAGTGTCTATGAAGACGGTGTGTGGAACCCCGGGTACTGTGCACCTGAGATTCTCCGA  
 GGCTGTGCCTATGGCCCCGAGGTGGACATGTGGTCTGTAGGAATAATTACCTACATCCTACTTTGTGGAT  
 TTGAACCATTTCTATGATGAGAGAGGTGATCAGTTCATGTTCAAGGAAATCTGAATTGTGAATTAATCT  
 TATCTCCCCCTGGTGGGATGAAGTTTCTTAAATGCCAAGGACTTGGTCAAGAACTCATTGTTTTGGAC  
 CCTAAGAAGCGGCTGACTACATTCGAAGCCCTCCAACACCCGTTGGTCAAGGAAAGCAGCCAACCTTTG  
 TCCACATGGATACCGCTCAGAAAAGCTTCAAGAATTCATGCTAGGCGCAAGCTTAAGGCGGCAGTGAA  
 GGCTGTGGTGGCTCTTCTCGGCTGGGAAGTCCAGCAGCAGTACACCAACATCCAAGAAAGCAACAAA  
 GCCAGCTCGGAGGCACAGCCCGCCCAAGACGGCAAGGACAAGACAGATCCTCTGGAAAACAAAATGCAAG  
 CGGGGACCACGAGGCAGCCAAGGCTGCAGCCGATGAGACGATGAAGCTACAGTCCGAGGAGGTGGAGGA  
 AGAGGAAGGTGTAAAAGAAGAGGAGGAAGAGGAAGGAAGAGGAGACCTCCAGGATGGTACCTCAG  
 GAGCCAGAGGACAGGCTGGAGACAGATGACCAGGAAATGAAGAGAAATTCAGAGGAGACGTTGAAGAGTG  
 TGGAGGAAGAAATGGACCCGAAAGCTGAGGAGGAAGCCGCTGCCGTGGGACTTGGGGTCCCTCCACAGCA  
 GGATGCTATTCTGCCAGAGTACT**AA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_012727

**Insert Size:** 1425 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](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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

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