

Product datasheet for **RR200521**

Camk2b (NM_001042354) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Camk2b (NM_001042354) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Camk2b
Synonyms:	Ck2b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR200521 representing NM_001042354
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCACCACGGTGACCTGCACCCGTTTCACGGACGAGTACCAGCTATACGAGGATATTGGCAAGGGG
 CTTTCTCTGTGGTCCGACGCTGTGTCAAGCTCTGCACCGCCATGAGTATGCAGCTAAGATCATTAAAC
 CAAGAAGCTGTCAGTAGAGATCACCAGAAGCTGGAGAGGGAGGCTCGGATCTGCCGCCTCTGAAGCAT
 TCCAACATTGTACGCTCCATGACAGCATCTCTGAAGAGGGCTTCCACTACCTGGTCTTCGACCTGGTCA
 CTGGTGGGAGCTCTTTGAAGACATTGTGGCGAGAGTACTACAGTGAGGCTGACGCCAGTCACTGTAT
 CCAGCAGATCCTGGAGGCTGTTCTCCATTGTACCAAAATGGGGTCTCCACAGAGACCTCAAGCCTGAA
 AACCTGCTCTGGCCAGCAAATGCAAAGGGGCCGAGTAACTGGCAGACTTCGGCCTGGCCATCGAGG
 TTCAGGGAGACCAGCAGGCATGGTTGGATTTGCGGGAACACCAGGCTACCTGTCTCCCGAAGTTCTTCG
 GAAGGAGGCCTATGGCAAACAGTGGATATCTGGGCATGTGGGTGATCCTGTATATCCTGCTGGTGGGA
 TACCCACCTTTCTGGGATGAGGACCAGCACAAAGCTGTACCAGCAGATCAAGGCTGGGGCCTATGACTTCC
 CATCCCCGAGTGGGACACCGTTACCCCTGAAGCCAAAAACCTCATCAACCAGATGTTGACCATCAACCC
 CGCCAAGCGCATCACGGCCACGAGGCCCTGAAGCACCCATGGGTCTGCCAACGATCCACGGTGGCCTCC
 ATGATGCACAGACAGGAGACTGTGGAATGTCTGAAGAAGTTCAATGCAAGGAGGAAGCTCAAGGGAGCCA
 TCCTCACCCTATGCTGGCCACACGGAATTTCTCAGCAGCCAAGAGTTTACTCAACAAGAAAAGCAGACGG
 AGTCAAGCCCAGACAAACAGCACCAAAAACAGCTCGGCCATCACCAGCCCCAAGGATCCCTCCCTCCT
 GCCGCCCTGGAATCTTCCGACAGCACCAACACAACCATAGAGGACGAAGATGCCAAAGCCCCAGGATCT
 CTGACATCCTGAACTCAGTGAGAAGGGGCTGTGGAACCCAGAAGCCGAGGGACCCCTATCAGTGGGGCC
 CCGCCCTGCTTGTCTCCGGGTCTCCTAGGCCCTGCCCCACCCCGTCCCCAGGATCTCTGACATCCTC
 AACTCAGTGAGGCGGGCTCAGGACCCAGAAGCTGAGGGCCTCCCACAGTGGGCCCCCCACCTGCC
 CATCTCGACTCTCCCTGGCCCCCTTGCCACCCCATCCCAGGAGCAAGAAATCATCAAGACCACAGAGCA
 GCTCATCGAGGCCGTAACAACGGCGACTTTGAGGCCTATGCGAAAATCTGTGACCCAGGCTGACCTCA
 TTTGAGCCTGAAGCTCTGGCAACCTGGTGAAGGATGGATTTCCACAGATTCTACTTTGAGAACCTGC
 TGGCAAGAACAGCAAGCCGATCCACCACTATCCTGAACCCGACGTGCACGTATCGGCGAGGATGC
 AGCCTGCATCGTTACATCCGCCTCACACAGTACATCGACGCCAGGGCAGACCCCGCACCAGCCAGTCC
 GAAGAGACCCGTGTGTGGCACCCGCGCAGCGCAAGTGGCAGAATGTCCATTTCCACTGCTGGGCGCTC
 CAGTGGCCCCACTGCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR200521 representing NM_001042354
 Red=Cloning site Green=Tags(s)

MATTVTCTRFTDEYQLYEDIGKGFVSVRRVCVKLCTGHEYAAKIINTKKLSARDHQKLEREARICRLLKH
 SNIVRLHDSISEEGFHYLVFDLVTGGELFEDIVAREYYSEADASHCIQQILEAVLHCHQMVGVRDLKPE
 NLLLSASKCKGAAYKLADFLAIEVQGDQAWFGFAGTPGYLSPEVLRKEAYGKPVDIWACGVILYILLVG
 YPPFWEDEQHLKYLQIKAGAYDFPSPEDTVPKAKNLINQMLTINPAKRITAHEALKHPWVCQRSTVAS
 MMHRQETVECLKKFNARRKLGAILTTMLATRNFSAAKSLNKKADGVKPTNSTKNSSAITSPKGLPP
 AALESSTNTTIEDEDAKPRISDILNSVRRGCTPEAEGPLSVGPPCLSPGLLGPLPTSPRISDIL
 NSVRRSGTPEAEGPLPPVPPPCSPPTLPGPLPTPSRKQEIITTEQLIEAVNNGDFEAYAKICDPLGTS
 FEPEALGNLVEGMDFRHFYFENLLAKNSKPIHTTILNPHVHIGEDAACIAYIRLTQYIDGQGRPRTSQS
 EETRVWHRDGGKQNVHVFHCSGAPVAPLQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001042354

ORF Size: 1767 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.

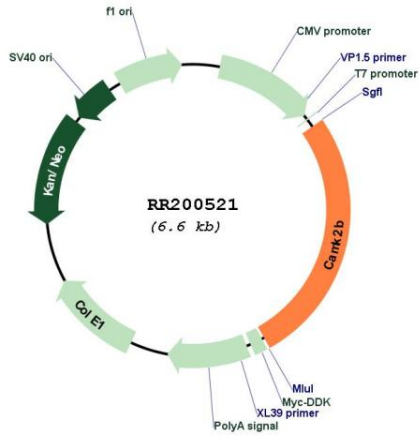
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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 Size: 4005 bp

RefSeq ORF: 1770 bp
 Locus ID: 24245
 Cytogenetics: 14q21
 MW: 65 kDa
 Gene Summary: beta subunit of calcium/calmodulin-dependent protein kinase II; may be involved in retinal development [RGD, Feb 2006]

Product images:



Circular map for RR200521