

Product datasheet for **RR200520**

Camk2b (NM_021739) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Camk2b (NM_021739) 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:

>RR200520 representing NM_021739
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCACCACGGTGACCTGCACCCGTTTCACGGACGAGTACCAGCTATACGAGGATATTGGCAAGGGG
 CTTTCTCTGTGGTCCGACGCTGTGTCAAGCTCTGCACCGCCATGAGTATGCAGCTAAGATCATTAAAC
 CAAGAAGCTGTCAGCTAGAGATCACCAGAAGCTGGAGAGGGAGGCTCGGATCTGCCGCTCTGTAAGCAT
 TCCAACATTGTACGCTCCATGACAGCATCTCTGAAGAGGGCTTCCACTACCTGGTCTTCGACCTGGTCA
 CTGGTGGGAGCTCTTTGAAGACATTGTGGCGAGAGAGTACTACAGTGAGGCTGACGCCAGTCACTGTAT
 CCAGCAGATCCTGGAGGCTGTTCTCCATTGTACCAAATGGGGTCTCCACAGAGACCTCAAGCCTGAA
 AACCTGCTCTGGCCAGCAAATGCAAAGGGGCCGAGTAACTGGCAGACTTCGGCTGGCCATCGAGG
 TTCAGGGAGACCAGCAGGCATGGTTTGGATTTGCGGGAACACCAGGCTACCTGTCTCCCGAAGTTCTTCG
 GAAGGAGGCCTATGGCAAACCAGTGGATATCTGGGCATGTGGGTGATCTGTATATCTGCTGGTGGGA
 TACCCACCTTTCTGGGATGAGGACCAGCACAAGCTGTACCAGCAGATCAAGGCTGGGGCCTATGACTTCC
 CATCCCCGAGTGGGACACCGTTACCCCTGAAGCCAAAAACCTCATCAACCAGATGTTGACCATCAACCC
 CGCCAAGCGCATCACGGCCACGAGGCCCTGAAGCACCCATGGGTCTGCCAACGATCCACGGTGGCTCC
 ATGATGCACAGACAGGAGACTGTGGAATGTCTGAAGAAGTTCAATGCAAGGAGGAAGCTCAAGGGAGCCA
 TCCTCACCCTATGTGGCCACACGGAATTTCTCAGTGGGCGAGACAGACCACCGCTCCGGCCACAATGTC
 CACCGCGGCTCCGGCACCACTGGGGCTGGTGAACAAGCCAAGAGTTTACTCAACAAGAAAGCAGAC
 GGAGTCAAGCCCCAGACAACAGCACAAAAACAGCTCGGCCATCACCAGCCCCAAGGATCCCTCCCTC
 CTGGCCCTGGAGCCTCAAACCACCGTTATCCATAACCCAGTGGACGGCATTAAAGAACTTCCGACAG
 CACCAACACAACCATAGAGGACGAAGATGCCAAAAGCCGGAAGCAGGAAATCATCAAGACCACAGAGCAG
 CTCATCGAGGCCGTCAACAACGGCGACTTTGAGGCCTATGCGAAAATCTGTGACCCAGGCCTGACCTCAT
 TTGAGCCTGAAGCTCTGGCAACCTGGTGAAGGGATGGATTTCCACAGATTCTACTTTGAGAACCTGCT
 GGCCAAGAACAGCAAGCCGATCCACACCACTATCCTGAACCCGCACGTGCACGTATCGGCGAGGATGCA
 GCCTGCATCGTTACATCCGCTCACACAGTACATCGACGGCCAGGGCAGACCCCGCACCAGCCAGTCCG
 AAGAGACCCGTGTGTGGCACCGCCGACGGCAAGTGGCAGAATGTCCATTTCCACTGCTCGGGCGCTCC
 AGTGGCCCCACTGCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR200520 representing NM_021739
 Red=Cloning site Green=Tags(s)

MATTVTCTRFTDEYQLYEDIGKAFSVVRRCVKLCTGHEYAAKIINTKKLSARDHQKLEREARICRLLKH
 SNIVRLHDSISEEGFHYLVFDLVTGGELFEDIVAREYYSEADASHCIQQILEAVLHCHQMGVVHRDLKPE
 NLLLASKCKGAAYKLADFLAIEVQGDQAWFGFAGTPGYLSPEVLRKEAYGKPVDIWACGVILYILLVG
 YPPFWDEDQHKLYQQIKAGAYDFPSPEWDTVTPEAKNLINQMLTINPAKRITAEALKHPWVCQRSTVAS
 MMHRQETVECLKKFNARRKLGAILTTLATRNF SVGRQTTAPATMSTAASGTTMGLVEQAKSLLNKKAD
 GVKPQTNSTKNSSAITSPKGSPPAALEPQTTVIHNPVDGIKESDSTNTTIEDEKARKQEI IKTTEQ
 LIEAVNNGDFEAYAKICDPGLTSFEPEALGNLVEGMDFHRYFENLLAKNSKPIHTTILNPHVHVIGEDA
 ACIAYIRLTQYIDGQRPRTSQSEETRVWHRRDGKWQNVHFHCSGAPVAPLQ

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_021739

ORF Size: 1626 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_021739.2](#), [NP_068507.2](#)

RefSeq Size: 3864 bp

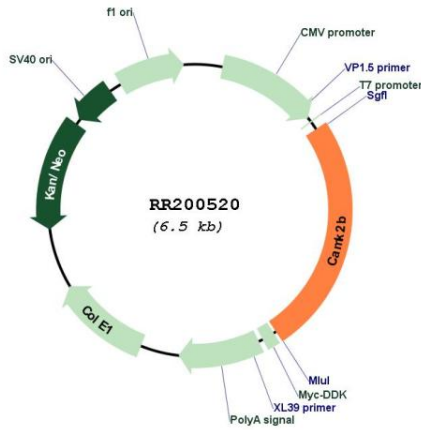
RefSeq ORF: 1629 bp

Locus ID: 24245

UniProt ID: [P08413](#)

Cytogenetics: 14q21
 MW: 60.5 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 RR200520