

Product datasheet for **RN200521**

Camk2b (NM_001042354) Rat Untagged Clone

Product data:

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



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Fully Sequenced ORF: >RN200521 representing NM_001042354
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCACCACGGTGACCTGCACCCGTTTCACGGACGAGTACCAGCTATACGAGGATATTGGCAAGGGG
 CTTTCTCTGTGGTCCGACGCTGTGTCAAGCTCTGCACCGCCATGAGTATGCAGCTAAGATCATTAAAC
 CAAGAAGCTGTCAGCTAGAGATCACCAGAAGCTGGAGAGGGAGGCTCGGATCTGCCGCTCTGAAGCAT
 TCCAACATTGTACGCTCCATGACAGCATCTCTGAAGAGGGCTTCCACTACCTGGTCTTCGACCTGGTCA
 CTGGTGGGAGCTCTTTGAAGACATTGTGGCGAGAGTACTACAGTGAGGCTGACGCCAGTCACTGTAT
 CCAGCAGATCCTGGAGGCTGTTCTCATTGTACCAAATGGGGTCTGCCACAGAGACCTCAAGCCTGAA
 AACCTGCTCTGGCCAGCAAATGCAAAGGGCCGAGTAACTGGCAGACTTCGGCCTGGCCATCGAGG
 TTCAGGGAGACCAGCAGGCATGGTTGGATTTGGGGAACACCAGGCTACCTGTCTCCCGAAGTTCTTCG
 GAAGGAGGCCATGGCAAACAGTGGATATCTGGGCATGTGGGGTATCTGTATATCTGCTGGTGGGA
 TACCCACCTTTCTGGGATGAGGACCAGCACAAAGCTGTACCAGCAGATCAAGGCTGGGGCCTATGACTTCC
 CATCCCCGAGTGGGACACCGTTACCCCTGAAGCCAAAAACCTCATCAACCAGATGTTGACCATCAACCC
 CGCCAAGCGCATCACGGCCACGAGGCCCTGAAGCACCCATGGGTCTGCCAACGATCCACGGTGGCCTCC
 ATGATGCACAGACAGGAGACTGTGGAATGTCTGAAGAAGTTCAATGCAAGGAGGAAGCTCAAGGGAGCCA
 TCCTCACCCTATGTGGCCACACGGAATTTCTCAGCAGCCAAGAGTTTACTCAACAAGAAAAGCAGACGG
 AGTCAAGCCCCAGACAAACAGCACAAAAACAGCTCGGCCATCACCAGCCCCAAAGGATCCCTCCCTCT
 GCCGCCCTGGAATCTTCCGACAGCACCAACACAACCATAGAGGACGAAGATGCCAAAGCCCCCAGGATCT
 CTGACATCTGAACTCAGTGAGAAGGGGCTGTGGAACCCAGAAGCCGAGGGACCCCTATCAGTGGGGCC
 CCGCCCTGCTTGTCTCCGGGTCTCCTAGGCCCTGCCACCCGTCGCCCAGGATCTCTGACATCCTC
 AACTCAGTGAGGCGGGGCTCAGGGACCCAGAAGCTGAGGGCCTCCCACCAGTGGGCCCCACCCTGCC
 CATCTCCGACTCTCCCTGGCCCTTGCCACCCCATCCCAGGAGCAAGAAATCATCAAGACCACAGAGCA
 GCTCATCGAGGCCGTAACAACGGCGACTTTGAGGCTATGCGAAAATCTGTGACCCAGGCCTGACCTCA
 TTTGAGCCTGAAGCTCTGGGCAACCTGGTGAAGGATGGATTTCCACAGATTCTACTTTGAGAACCTGC
 TGGCCAAGAACAGCAAGCCGATCCACACCACTATCCTGAACCCGACGTGCACGTATCGGCGAGGATGC
 AGCCTGCATCGTTACATCCGCCTCACACAGTACATCGACGGCCAGGGCAGACCCCGCACCAGCCAGTCC
 GAAGAGACCCGTGTGTGGCACCCGCGACGGCAAGTGGCAGAATGTCCATTTCCACTGCTCGGGCGCTC
 CAGTGGCCCCACTGCAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001042354
Insert Size: 1770 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.

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_001042354.1](#), [NP_001035813.1](#)

RefSeq Size: 4005 bp

RefSeq ORF: 1770 bp

Locus ID: 24245

Cytogenetics: 14q21

Gene Summary: beta subunit of calcium/calmodulin-dependent protein kinase II; may be involved in retinal development [RGD, Feb 2006]
 Transcript Variant: This variant (1) represents the longest transcript and it encodes the longest protein (isoform 1).