

Product datasheet for **RN200522**

Camk2b (NM_001042356) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Camk2b (NM_001042356) 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: >RN200522 representing NM_001042356
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGCCACCACGGTGACCTGCACCCGTTTCACGGACGAGTACCAGCTATACGAGGATATTGGCAAGGGG
CTTTCTCTGGTCCGACGCTGTGTCAAGCTCTGCACCGCCATGAGTATGCAGCTAAGATCATTAAACAC
CAAGAAGCTGTCAGCTAGAGATCACCAGAAGCTGGAGAGGGAGGCTCGGATCTGCCGCCTGCTGAAGCAT
TCCAACATTGTACGCCTCCATGACAGCATCTCTGAAGAGGGCTTCCACTACCTGGTCTTCGACCTGGTCA
CTGGTGGGAGCTCTTTGAAGACATTGTGGCGAGAGAGTACTACAGTGAGGCTGACGCCAGTCACTGTAT
CCAGCAGATCCTGGAGGCTGTTCTCCATTGTACCAAAATGGGGTCTCCACAGAGACCTCAAGCCTGAA
AACCTGCTCTGGCCAGCAAATGCAAAGGGGCCGAGTAACTGGCAGACTTCGGCCTGGCCATCGAGG
TTCAGGGAGACCAGCAGGCATGGTTTGGATTTGCGGGAACACCAGGCTACCTGTCTCCCGAAGTTCTTCG
GAAGGAGGCCTATGGCAAACAGTGGATATCTGGGCATGTGGGGTATCCTGTATATCCTGCTGGTGGGA
TACCCACCTTTCTGGGATGAGGACCAGCACAAGCTGTACCAGCAGATCAAGGCTGGGGCCTATGACTTCC
CATCCCCCGAGTGGGACACCGTTACCCCTGAAGCCAAAAACCTCATCAACCAGATGTTGACCATCAACCC
CGCCAAGCGCATCACGGCCACGAGGCCCTGAAGCACCCATGGGTCTGCCAACGATCCACGGTGGCCTCC
ATGATGCACAGACAGGAGACTGTGGAATGTCTGAAGAAGTTCAATGCAAGGAGGAAGCTCAAGGGAGCCA
TCCTCACCCTATGCTGGCCACACGGAATTTCTCAGCAGCCAAGAGTTTACTCAACAAGAAAGCAGACGG
AGTCAAGCCCCAGACAAACAGCACAAAAACAGCTCGGCCATCACCAGCCCCAAAGGATCCCTCCCTCCT
GCCGCCCTGGAATCTTCCGACAGCACCAACACAACCATAGAGGACGAAGATGCCAAAGCCCGGAAGCAGG
AAATCATCAAGACCACAGAGCAGCTCATCGAGGCCGTCAACAACGGCGACTTTGAGGCCTATGCGAAAAT
CTGTGACCCAGGCCTGACCTCATTGAGCCTGAAGCTCTGGGCAACCTGGTCAAGGGATGGATTTCCAC
AGATTCTACTTTGAGAACCTGCTGGCCAAGAACAGCAAGCCGATCCACACCACTATCCTGAACCCGACG
TGCACGTATCGGCGAGGATGCAGCCTGCATCGCTTACATCCGCCTCACACAGTACATCGACGGCCAGGG
CAGACCCCGCACCAGCCAGTCCGAAGAGACCCGTGTGTGGCACC GCCGACGGCAAGTGGCAGAATGTC
CATTTCCACTGCTCGGGCGCTCCAGTGGCCCCACTGCAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_001042356

Insert Size: 1512 bp

OTI Disclaimer: 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_001042356.1](#), [NP_001035815.1](#)

RefSeq Size: 3747 bp

RefSeq ORF: 1512 bp

Locus ID: 24245

UniProt ID: [P08413](#)

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 (3) lacks two alternate, in-frame exons in the 3' coding region, compared to variant 1. The resulting protein (isoform 3) is shorter when it is compared to isoform 1.