

Product datasheet for **RN200520**

Camk2b (NM_021739) Rat Untagged Clone

Product data:

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|--------------------|---------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | Camk2b (NM_021739) 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: >RN200520 representing NM_021739
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCACCACGGTGACCTGCACCCGTTTCACGGACGAGTACCAGCTATACGAGGATATTGGCAAGGGG
 CTTTCTCTGGTCCGACGCTGTGTCAAGCTCTGCACCGCCATGAGTATGCAGCTAAGATCATTAAAC
 CAAGAAGCTGTCAGCTAGAGATCACCAGAAGCTGGAGAGGGAGGCTCGGATCTGCCGCCTGCTGAAGCAT
 TCCAACATTGTACGCCTCCATGACAGCATCTCTGAAGAGGGCTTCCACTACCTGGTCTTCGACCTGGTCA
 CTGGTGGGAGCTCTTTGAAGACATTGTGGCGAGAGTACTACAGTGAGGCTGACGCCAGTCACTGTAT
 CCAGCAGATCCTGGAGGCTGTTCTCCATTGTACCAAAATGGGGTCTCCACAGAGACCTCAAGCCTGAA
 AACCTGCTCTGGCCAGCAAATGCAAAGGGGCCGAGTAACTGGCAGACTTCGGCCTGGCCATCGAGG
 TTCAGGGAGACCAGCAGGCATGGTTTGGATTTGCGGGAACACCAGGCTACCTGTCTCCCGAAGTTCTTCG
 GAAGGAGCCATGGCAAACCAGTGGATATCTGGGCATGTGGGGTATCTGTATATCCTGCTGGTGGGA
 TACCCACCTTTCTGGGATGAGGACCAGCACAAGCTGTACCAGCAGATCAAGGCTGGGGCCTATGACTTCC
 CATCCCCGAGTGGGACACCGTTACCCCTGAAGCCAAAAACCTCATCAACCAGATGTTGACCATCAACCC
 CGCCAAGCGCATCACGGCCACGAGGCCCTGAAGCACCCATGGGTCTGCCAACGATCCACGGTGGCCTCC
 ATGATGCACAGACAGGAGACTGTGGAATGTCTGAAGAAGTTCAATGCAAGGAGGAAGCTCAAGGGAGCCA
 TCCTCACCCTATGTGGCCACACGGAATTTCTCAGTGGGCGAGACAGACCACCGCTCCGGCCACAATGTC
 CACCGCGCCTCCGGCACCACCATGGGGCTGGTGAACAAGCCAAAGATTTACTCAACAAGAAAGCAGAC
 GGAGTAAGCCCCAGACAACAGCACCAAAAACAGCTCGGCCATCACCAGCCCCAAGGATCCCTCCCTC
 CTGCCGCCCTGGAGCCTCAAACCACCGTTATCCATAACCCAGTGGACGGCATTAAAGGAATCTTCGACAG
 CACCAACACAACCATAGAGGACGAAGATGCCAAAAGCCGGAAGCAGGAAATCATCAAGACCACAGAGCAG
 CTCATCGAGGCCGTCAACAACGGCGACTTTGAGGCCTATGCGAAAATCTGTGACCCAGGCCCTGACCTCAT
 TTGAGCCTGAAGCTCTGGCAACCTGGTGAAGGGATGGATTTCCACAGATTCTACTTTGAGAACCTGCT
 GGCCAAGAACAGCAAGCCGATCCACACCACTATCCTGAACCCGACGTCACGTCATCGGCGAGGATGCA
 GCCTGCATCGTTACATCCGCCTCACACAGTACATCGACGGCCAGGGCAGACCCCGCACCAGCCAGTCCG
 AAGAGACCCGTGTGTGGCACCAGCCGACGGCAAGTGGCAGAATGTCCATTTCCACTGCTCGGGCGCTCC
 AGTGGCCCCACTGCAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_021739

Insert Size: 1629 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_021739.2](#), [NP_068507.2](#)

RefSeq Size: 3864 bp

RefSeq ORF: 1629 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 (2) has multiple differences in the coding region, compared to variant 1. The resulting protein (isoform 2) is shorter when it is compared to isoform 1.