

Product datasheet for MR217190

Prkacb (NM 001164200) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Prkacb (NM_001164200) Mouse Tagged ORF Clone

Tag: Myc-DDK
Symbol: Prkacb

Synonyms: CbPKA; Pkacb

Mammalian Cell

Selection:

Neomycin

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

ORF Nucleotide >MR217190 representing NM_001164200 Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGGCAGCTCACAAAGAACTGTCCAGTGGCCAGCACAGTGGCACGCCCACCGCCCTCCAGAAGCTGGAGG GGTTCGCTAGCCGCCTGTTTCACAGGCACTCCAGAGGCACCGCACAAGAGCACAGGGCAGCTCTGGAAGA TGACGGCCTTCGGGCCTCTGAGCACACTGCCTCATGGGACAAATCAATGAAAGAGTTTCTAGCCAAAGCC AAAGAAGACTTTCTGAGGAAATGGGAGAACCCTCCCCGAGTAATGCTGGGCTTGAGGATTTTGAGAGGA AGAAAACCCTCGGGACGGTTCCTTTGGAAGAGTCATGTTGGTGAAGCATAAAGCCACTGAGCAGTACTA CGCCATGAAGATCTTAGACAAGCAGAAGGTTGTTAAGCTGAAGCAAATAGAGCACACTCTGAATGAGAAG AGAATCCTGCAGGCCGTGGAGTTCCCGTTCCTTGTGCGGCTGGAGTACTCTTTTAAGGATAATTCTAATT TATACATGGTTATGGAATACGTCCCTGGGGGAGAGATGTTCTCACATCTGAGAAGAATTGGAAGGTTCAG TGAGCCCCACGCCCGTTTCTATGCAGCCCAGATTGTGCTAACATTTGAGTACCTTCATTCCCTCGACCTC ATCTACAGAGATCTCAAGCCGGAAAACCTCTTAATTGACCACCAGGGTTACATCCAGGTCACAGATTTCG GGTTCGCCAAAAGAGTCAAGGGCAGGACATGGACATTGTGTGGCACCCCAGAGTACCTGGCCCCGGAGAT CATCCTCAGCAAGGGTTACAATAAGGCGGTGGACTGGTGGGCACTGGGCGTGCTGATCTATGAGATGGCT GCTGGCTACCCTCCATTCTTTGCTGACCAGCCAATTCAGATCTATGAGAAGATTGTCTCTGGAAAGGTCC GGTTCCCATCACACTTCAGCTCCGATCTCAAGGACCTTCTGCGGAACCTGCTGCAGGTGGATCTGACAAA ATTGCTATTTATCAGAGAAAGGTTGAGGCTCCATTCATACCAAAGTTCAGAGGCTCTGGCGATACCAGCA ACTTCGATGACTATGAAGAAGAAGAAATCCGTGTGTCTATAACAGAAAAATGTGGAAAGGAATTTTGTGA **ATTT**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR217190 representing NM_001164200

Red=Cloning site Green=Tags(s)

MAAHKELSSGQHSGTPTALQKLEGFASRLFHRHSRGTAQEHRAALEDDGLRASEHTASWDKSMKEFLAKA KEDFLRKWENPPPSNAGLEDFERKKTLGTGSFGRVMLVKHKATEQYYAMKILDKQKVVKLKQIEHTLNEK RILQAVEFPFLVRLEYSFKDNSNLYMVMEYVPGGEMFSHLRRIGRFSEPHARFYAAQIVLTFEYLHSLDL IYRDLKPENLLIDHQGYIQVTDFGFAKRVKGRTWTLCGTPEYLAPEIILSKGYNKAVDWWALGVLIYEMA AGYPPFFADQPIQIYEKIVSGKVRFPSHFSSDLKDLLRNLLQVDLTKRFGNLKNGVSDIKTHKWFATTDW IAIYQRKVEAPFIPKFRGSGDTSNFDDYEEEEIRVSITEKCGKEFCEF

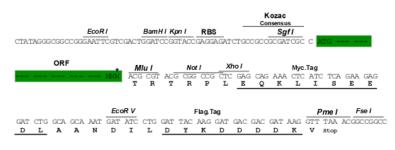
TRTRPLEQKLISEEDLAANDILDYKDDDDK**V**

Chromatograms: https://cdn.origene.com/chromatograms/mm9010 d03.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_001164200

ORF Size: 1194 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 customport@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. <u>More info</u>

Prkacb (NM_001164200) Mouse Tagged ORF Clone - MR217190

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: <u>NM 001164200.1</u>, <u>NP 001157672.1</u>

 RefSeq Size:
 4302 bp

 RefSeq ORF:
 1197 bp

 Locus ID:
 18749

 UniProt ID:
 P68181

 Cytogenetics:
 3 H2

MW: 46.5 kDa

Gene Summary: Mediates cAMP-dependent signaling triggered by receptor binding to GPCRs. PKA activation

regulates diverse cellular processes such as cell proliferation, the cell cycle, differentiation and regulation of microtubule dynamics, chromatin condensation and decondensation, nuclear envelope disassembly and reassembly, as well as regulation of intracellular transport

mechanisms and ion flux (PubMed:9368018). Regulates the abundance of compartmentalized

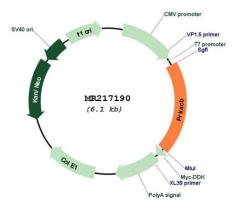
pools of its regulatory subunits through phosphorylation of PJA2 which binds and

ubiquitinates these subunits, leading to their subsequent proteolysis. Phosphorylates GPKOW

which regulates its ability to bind RNA (By similarity).[UniProtKB/Swiss-Prot Function]



Product images:



Circular map for MR217190