

# Product datasheet for MC209176

## Prkacb (NM 011100) Mouse Untagged Clone

#### **Product data:**

**Product Type: Expression Plasmids** 

**Product Name:** Prkacb (NM\_011100) Mouse Untagged Clone

Tag: Tag Free Prkacb Symbol:

Synonyms: CbPKA; Pkacb

**Mammalian Cell** 

Neomycin

Selection:

Vector: pCMV6-Entry (PS100001) E. coli Selection: Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >MC209176 representing NM\_011100

Red=Cloning site Blue=ORF Orange=Stop codon

CTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGGATCGCCGGCGCC

GCCC

ATGGGGAACACTGCGATCGCCAAGAAAGGCAGCGAAGTGGAGAGCGTGAAAGAGTTTCTAGCCAAAGCCA AAGAAGACTTTCTGAGGAAATGGGAGAACCCTCCCCCGAGTAATGCTGGGCTTGAGGATTTTGAGAGGAA GAAAACCCTCGGGACGGGTTCCTTTGGAAGAGTCATGTTGGTGAAGCATAAAGCCACTGAGCAGTACTAC GCCATGAAGATCTTAGACAAGCAGAAGGTTGTTAAGCTGAAGCAAATAGAGCACACTCTGAATGAGAAGA GAATCCTGCAGGCCGTGGAGTTCCCGTTCCTTGTGCGGCTGGAGTACTCTTTTAAGGATAATTCTAATTT ATACATGGTTATGGAATACGTCCCTGGGGGAGAGATGTTCTCACATCTGAGAAGAATTGGAAGGTTCAGT GAGCCCCACGCCCGTTTCTATGCAGCCCAGATTGTGCTAACATTTGAGTACCTTCATTCCCTCGACCTCA TCTACAGAGATCTCAAGCCGGAAAACCTCTTAATTGACCACCAGGGTTACATCCAGGTCACAGATTTCGG GTTCGCCAAAAGAGTCAAGGGCAGGACATGGACATTGTGTGGCACCCCAGAGTACCTGGCCCCGGAGATC ATCCTCAGCAAGGGTTACAATAAGGCGGTGGACTGGTGGGCACTGGGCGTGCTGATCTATGAGATGGCTG CTGGCTACCCTCCATTCTTTGCTGACCAGCCAATTCAGATCTATGAGAAGATTGTCTCTGGAAAGGTCCG GTTCCCATCACACTTCAGCTCCGATCTCAAGGACCTTCTGCGGAACCTGCTGCAGGTGGATCTGACAAAG TTGCTATTTATCAGAGAAAGGTTGAGGCTCCATTCATACCAAAGTTCAGAGGCTCTGGCGATACCAGCAA CTTCGATGACTATGAAGAAGAAGAAATCCGTGTGTCTATAACAGAAAAATGTGGAAAGGAATTTTGTGAA

**TTTTAG** 

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Ascl-Mlul



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

### Prkacb (NM\_011100) Mouse Untagged Clone - MC209176

**ACCN:** NM\_011100

**Insert Size:** 1056 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 <a href="mailto:customercom">customercom</a> 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. More info

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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

RefSeq: <u>NM 011100.4, NP 035230.1</u>

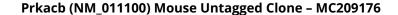
 RefSeq Size:
 4341 bp

 RefSeq ORF:
 1056 bp

 Locus ID:
 18749

 UniProt ID:
 P68181

 Cytogenetics:
 3 H2





#### **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] Transcript Variant: This variant (1) represents the longest transcript and encodes isoform 1.