

Product datasheet for MC209175

Prkacb (NM_001164200) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Prkacb (NM_001164200) Mouse Untagged Clone
 Tag: Tag Free
 Symbol: Prkacb
 Synonyms: CbPKA; Pkacb
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 Fully Sequenced ORF: >MC209175 representing NM_001164200
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCAGCTCACAAGAAGTGTCCAGTGGCCAGCACAGTGGCACGCCACCGCCCTCCAGAAGCTGGAGG
 GGTTTCGCTAGCCGCTGTTTCACAGGCACTCCAGAGCCACCGCACAGAGCACAGGGCAGCTCTGGAAGA
 TGACGGCCTTCGGGCCTCTGAGCACACTGCCTCATGGGACAAATCAATGAAAGAGTTTCTAGCCAAAGCC
 AAAGAAGACTTTCTGAGGAAATGGGAGAACCTCCCCGAGTAATGCTGGGCTTGAGGATTTGAGAGGA
 AGAAAACCTCGGGACGGGTTCTTTGGAAGAGTCATGTTGGTGAAGCATAAAGCCACTGAGCAGTACTA
 CGCCATGAAGATCTTAGACAAGCAGAAGGTTGTTAAGCTGAAGCAAATAGAGCACACTCTGAATGAGAAG
 AGAATCCTGCAGGCCGTGGAGTTCCTGTCGGCTGGAGTACTCTTTAAGGATAAATTCTAATT
 TATACATGGTTATGGAATACGTCCTGGGGAGAGATGTTCTCACATCTGAGAAGAATTGGAAGGTTGAG
 TGAGCCCCACGCCGTTTCTATGCAGCCAGATTGTGCTAACATTTGAGTACCTTCATCCCTCGACCTC
 ATCTACAGAGATCTCAAGCCGAAAACCTTAAATTGACCACCAGGTTACATCCAGGTCACAGATTTGCG
 GGTTTCGCCAAAAGAGTCAAGGGCAGGACATGGACATTGTGTGGCACCCAGAGTACCTGGCCCGGAGAT
 CATCCTCAGCAAGGTTACAATAAGGCGGTGGACTGGTGGGCACTGGGCGTGCTGATCTATGAGATGGCT
 GCTGGCTACCCTCCATTCTTTGCTGACCAGCAATTCAGATCTATGAGAAGATTGCTCTGGAAAGTCC
 GGTTCCCATCACACTTCAGTCCGATCTCAAGGACCTTCTGCGAACCTGCTGCAGGTGGATCTGACAAA
 GCGATTCGGGAACCTGAAGAACGGCGTGTGAGTACATAAAGACCCACAAGTGGTTTCCACAAGTACTGG
 ATTGCTATTTATCAGAGAAAGTTGAGGCTCCATTACACAAAGTTCAGAGGCTCTGGCGATACCAGCA
 ACTTCGATGACTATGAAGAAGAAGAAATCCGTGTGTCTATAACAGAAAAATGTGGAAGGAATTTGTGA
 ATTT**AG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001164200
Insert Size:	1197 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:	<ol style="list-style-type: none">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:	<u>P68181</u>
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 (4) uses an alternative exon at the 5' end compared to variant 1. The resulting isoform (4) has a distinct and longer N-terminus, as compared to isoform 1.