

Product datasheet for **RC236896**

PRKACB (NM_001300917) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRKACB (NM_001300917) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PRKACB
Synonyms:	CAFD2; PKA C-beta; PKACB
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC236896 representing NM_001300917 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGGATTGTTGAAAGAGTTTCTAGCCAAAGCCAAAGAAGACTTTTTGAAAAATGGGAGAATCCAAC
AGAATAATGCCGACTTGAAGATTTTGAAGGAAAAAACCTTGAACAGGTTTCATTTGAAGAGTCAT
GTTGGTAAACACAAAGCCACTGAACAGTATTATGCCATGAAGATCTTAGATAAGCAGAAGTTGTTAA
CTGAAGCAAATAGAGCATACTTTGAATGAGAAAAGAATATTACAGGCAGTGAATTTTCCTTCTGTTT
GACTGGAGTATGCTTTTAAGGATAAATTCTAATTTATACATGGTTATGGAATATGTCCTGGGGTGAAAT
GTTTTACATCTAAGAAGAATTGGAAGTTTCAGTGAGCCCATGCACGGTCTATGCAGCTCAGATAGTG
CTAACATTCGAGTACCTCCATTCAGTACCTCATCTACAGAGATCTAAACCTGAAAACTCTTAATTG
ACCATCAAGGCTATATCCAGGTCACAGACTTTGGGTTTGCCAAAAGAGTTAAAGGCAGAACTTGACATT
ATGTGGAAGTCCAGAGTATTTGGCTCCAGAAATAATTCTCAGCAAGGGCTACAATAAGGCAGTGGATTG
TGGCATTAGGAGTGCTAATCTATGAAATGGCAGCTGGCTATCCCCATTCTTTGCAGACCAACCAATTC
AGATTTATGAAAAGATTGTTTCTGAAAAGAATTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC236896 representing NM_001300917
Red=Cloning site Green=Tags(s)

MGLLKEFLAKAKEDFLKKWENPTQNNAGLEDFERKKTLTGTSFGRVMLVKHKATEQYYAMKILDKQKVVK
 LKQIEHTLNEKRILQAVNFPFLVRLEYAFKDNSNLYMMEYVPGGEMFSLRRIGRFSEPHARFYAAQIV
 LTFEYLHSLDLIYRDLKPENLLIDHQGYIQVTDGFGAKRVKGRWTWLCGTPEYLAPEIILSKGYNKAVDW
 WALGVL IYEMAAGYPPFFADQPIQIYEKIVSGKNF

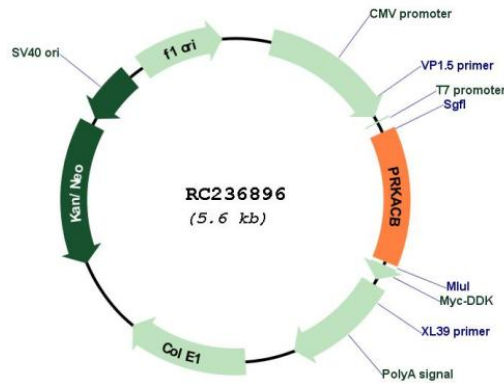
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001300917
ORF Size: 735 bp

OTI Disclaimer:	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
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:	<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:	NM_001300917.2
RefSeq Size:	1961 bp
RefSeq ORF:	738 bp
Locus ID:	5567
UniProt ID:	P22694
Cytogenetics:	1p31.1
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Apoptosis, Calcium signaling pathway, Chemokine signaling pathway, Dilated cardiomyopathy, Gap junction, GnRH signaling pathway, Hedgehog signaling pathway, Insulin signaling pathway, Long-term potentiation, MAPK signaling pathway, Melanogenesis, Olfactory transduction, Oocyte meiosis, Prion diseases, Progesterone-mediated oocyte maturation, Taste transduction, Vascular smooth muscle contraction, Vibrio cholerae infection, Wnt signaling pathway
MW:	29 kDa
Gene Summary:	The protein encoded by this gene is a member of the serine/threonine protein kinase family. The encoded protein is a catalytic subunit of cAMP (cyclic AMP)-dependent protein kinase, which mediates signalling through cAMP. cAMP signaling is important to a number of processes, including cell proliferation and differentiation. Multiple alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq, Jul 2014]