

Product datasheet for **RC237022**

PRKACB (NM_001300915) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRKACB (NM_001300915) 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:	>RC237022 representing NM_001300915 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTGCACGCAATCATCAGATGCATCTGCTTGTCTCTTCAGAAATATCTGATTCCTTTGTGAAAG
AGTTTCTAGCCAAAGCCAAAGAAGACTTTTTGAAAAATGGGAGAATCCAACCTCAGAATAATGCCGGACT
TGAAGATTTTGAAGGAAAAAACCTTGAACAGGTTTCAATTTGAAGAGTCATGTTGGTAAAACACAAA
GCCACTGAACAGTATTATGCCATGAAGATCTTAGATAAGCAGAAGTTGTTAAACTGAAGCAAAATAGAGC
ATACTTTGAATGAGAAAAGAATATTACAGGCAGTGAATTTTCTTTCTTGTTCGACTGGAGTATGCTTT
TAAGGATAATTCTAATTTATACATGGTTATGGAATATGTCCTGGGGGTGAAATGTTTTACATCTAAGA
AGAATTGGAAGGTTCACTGAGCCCCATGCACGGTCTATGCAGCTCAGATAGTGCTAACATTCGAGTACC
TCCATTCAGTACCTCATCTACAGAGATCTAAAACCTGAAAATCTTTAATTGACCATCAAGGCTATAT
CCAGGTCACAGACTTTGGGTTTGCCAAAAGAGTTAAAGGCAGAAGTTGGACATTATGTGGAAGTCCAGAG
TATTTGGCTCCAGAAATAATTCTCAGCAAGGGCTACAATAAGGCAGTGGATTGGTGGGCATTAGGAGTGC
TAATCTATGAAATGGCAGCTGGCTATCCCCATTCTTTGCAGACCAACCAATTCAGATTTATGAAAAGAT
TGTTTCTGAAAAGCAGAACTTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237022 representing NM_001300915
Red=Cloning site Green=Tags(s)

MSARKSSDASACSSSEISDSFVKEFLAKAKEDFLKKWENPTQNNAGLEDFERKKTLLGTGSFGRVMLVKHK
 ATEQYYAMKILDKQKVVVLKQIEHTLNEKRILQAVNFPFLVRLLEYAFKDNSL YMVMEYVPGGEMF SHLR
 RIGRFSEPHARFYAAQIVLTFEYLHSLDLIYRDLKPENLLIDHQGYIQVTDGFAKRVKGRWTWLCGTP
 YLAPEIILSKGYNKAVDWWALGVLIYEMAAGYPPFFADQPIIQIYEKIVSGKQNF

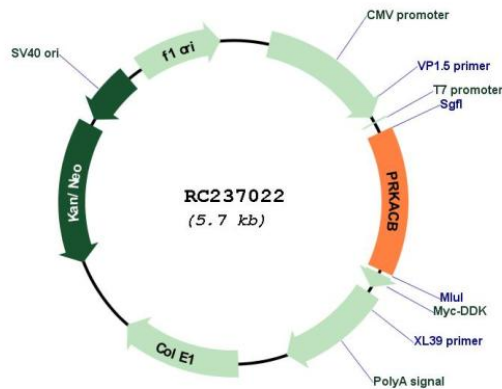
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001300915
ORF Size: 792 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_001300915.2
RefSeq Size:	2156 bp
RefSeq ORF:	795 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:	30.9 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]