

Product datasheet for **RC205946**

PKIB (NM_032471) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: PKIB (NM_032471) Human Tagged ORF Clone

Tag: Myc-DDK

Symbol: PKIB

Synonyms: PRKACN2

Mammalian Cell Selection: Neomycin

Vector: pCMV6-Entry (PS100001)

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

ORF Nucleotide Sequence: >RC205946 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGGACAGATTCATCAAAAATGACTGACGTGGAGTCTGGGGTCGCCAATTTTGCATCTTCAGCAAGGG
CAGGCCCGGAATGCCTTACCAGACATCCAGAGTTCAGTCCAGACAGGAACTCAGATTTGCCCT
CAAAGTGGAGGCTCTCCGTGAAGGAAGATGCAAAAGAGAAAGATGAAAAACAACACAAGACCAATTG
GAAAAGCCTCAAATGAAGAAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC205946 protein sequence
Red=Cloning site Green=Tags(s)

MRTDSSKMTDVESGVANFASSARAGRNRALPDIQSSAATDGTSDLPLKLEALSVKEDAKEKDEKTTQDQL
EKPQNEEK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6550_a05.zip

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_032471

ORF Size: 234 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:**
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_032471.5](#)

RefSeq Size: 1828 bp

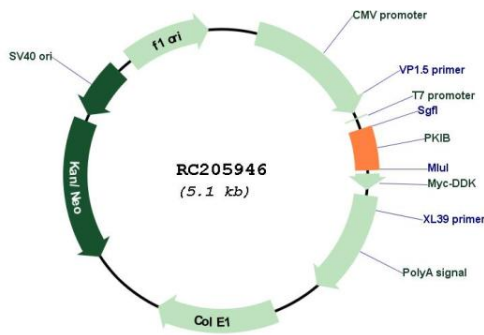
RefSeq ORF: 237 bp

Locus ID: 5570

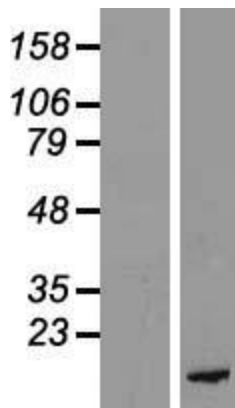
UniProt ID: [Q9C010](#)
Cytogenetics: 6q22.31
Domains: PKI
Protein Families: Druggable Genome
MW: 8.5 kDa

Gene Summary: This gene encodes a member of the cAMP-dependent protein kinase inhibitor family. The encoded protein may play a role in the protein kinase A (PKA) pathway by interacting with the catalytic subunit of PKA, and overexpression of this gene may play a role in prostate cancer. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jul 2012]

Product images:



Circular map for RC205946



Western blot validation of overexpression lysate (Cat# [LY405587]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC216291] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).