

Product datasheet for RC218237

PKI alpha (PKIA) (NM_006823) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PKI alpha (PKIA) (NM_006823) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: PKI alpha
Synonyms: PRKACN1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC218237 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGGATCGCC

ATGACTGATGTGGAACTACATATGCAGATTTTATTGCTTCAGGAAGAACAGGTAGAAGAAATGCAATAC
ATGATATCCTGGTTTCTCTGCAAGTGGCAACAGCAATGAATTAGCCTTGAAATTAGCAGGTCTTGATAT
CAACAAGACAGAAGGTGAAGAAGATGCACAACGAAGTTCTACAGAACAAAGTGGGAAGCCAGGGAGAA
GCAGCAAATCTGAAAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC218237 protein sequence
Red=Cloning site Green=Tags(s)
MTDVETTYADFIASGRTGRRNAIHDILVSSASGNSNELALKLAGLDINKTEGEEDAQRSSTEQSGEAQGE
AAKSES

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6439_h07.zip

Restriction Sites: Sgfl-Mlul



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Cloning Scheme:


ACCN: NM_006823

ORF Size: 228 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_006823.4](#)

RefSeq Size: 4215 bp

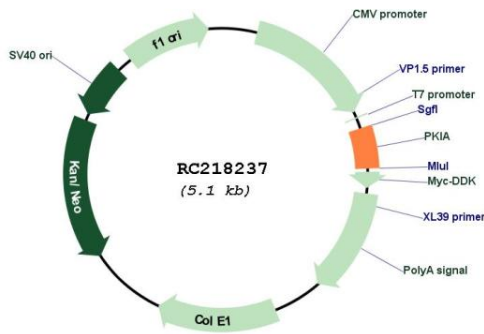
RefSeq ORF: 231 bp

Locus ID: 5569

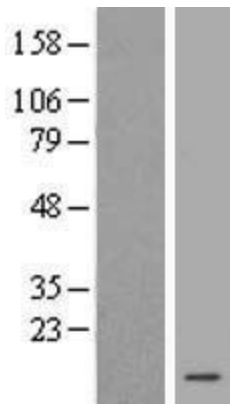
UniProt ID: [P61925](#)
 Cytogenetics: 8q21.13
 Domains: PKI
 Protein Families: Druggable Genome
 MW: 8 kDa

Gene Summary: The protein encoded by this gene is a member of the cAMP-dependent protein kinase (PKA) inhibitor family. This protein was demonstrated to interact with and inhibit the activities of both C alpha and C beta catalytic subunits of the PKA. Alternatively spliced transcript variants encoding the same protein have been reported. [provided by RefSeq, Jul 2008]

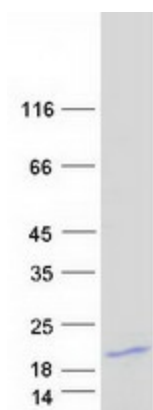
Product images:



Circular map for RC218237



Western blot validation of overexpression lysate (Cat# [LY402041]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218237 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PKIA protein (Cat# [TP318237]). The protein was produced from HEK293T cells transfected with PKIA cDNA clone (Cat# RC218237) using MegaTran 2.0 (Cat# [TT210002]).