

## Product datasheet for **SC307370**

### PKIB (NM\_181794) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PKIB (NM_181794) Human Untagged Clone
Tag:	Tag Free
Symbol:	PKIB
Synonyms:	PRKACN2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC307370 representing NM_181794. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAGGACAGATTCATCAAAAATGACTGACGTGGAGTCTGGGGTCGCCAATTTTGCATCTTCAGCAAGG
GCAGGCCGCCGGAATGCCTTACCAGACATCCAGAGTTCAGCTGCCACAGACGGAACCTCAGATTTGCC
CTCAAAGTGGAGGCTCTCCGTGAAGGAAGATGCAAAGAGAAAGATGAAAAACAACACAAGACCAA
TTGAAAAGCCTCAAAATGAAGAAAAATGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: Sgfl-Mlul

Plasmid Map:

ACCN: NM\_181794

Insert Size: 237 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.



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<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_181794.2</u>
<b>RefSeq Size:</b>	1892 bp
<b>RefSeq ORF:</b>	237 bp
<b>Locus ID:</b>	5570
<b>UniProt ID:</b>	<u>Q9C010</u>
<b>Cytogenetics:</b>	6q22.31
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	8.5 kDa
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 1. Variants 1, 2, 3 and 4 encode the same isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>