

## Product datasheet for **SC109614**

### PKI alpha (PKIA) (NM\_181839) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PKI alpha (PKIA) (NM_181839) Human Untagged Clone
Tag:	Tag Free
Symbol:	PKI alpha
Synonyms:	PRKACN1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_181839, the custom clone sequence may differ by one or more nucleotides

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ATGACTGATGTGGAAACTACATATGCAGATTTTATTGCTTCAGGAAGAACAGGTAGAAGAAATGCAATAC
ATGATATCCTGGTTTCTCTGCAAGTGGCAACAGCAATGAATTAGCCTTGAAATTAGCAGGTCTTGATAT
CAACAAGACAGAAGGTGAAGAAGATGCACAACGAAGTTCTACAGAACAAAGTGGGGAAGCCAGGGAGAA
GCAGCAAATCTGAAAGCTAA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_181839 unedited ATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGCCGGCGCGAGCTGACCGAGC ACTCGGCGGGCGCGGGGACTGCGGCCGTGGCGGCGTGC GCGGGGACCTGCGCTGACT AGGTCCGGGAAGTCCCTGCTATGTGGATATTTGGTAGCAATGACTGATGTGGAACTAC ATATGCAGATTTTATTGCTTCAGGAAGAACAGGTAGAAGAAATGCAATACATGATATCCT GGTTTCCTCTGCAAGTGGCAACAGCAATGAATTAGCCTTGAAATTAGCAGGTCTTGATAT CAACAAGACAGAAGGTGAAGAAGATGCACAACGAAGTTCTACAGAACAAGTGGGAAGC CCAGGGAGAAGCAGCAAATCTGAAAGCTAACACCCCACTTTGACCCTCGACCACACCTG AAAATGTCTCAAATCTCCAGGAGTATCTGGAATGCATTTGTTTCCATGAGTGAAAAGAGG AAAAAGAAAATGGCTGTGCTGCATTGCAGGAACCTGCTCATTATCATGTTAAAAATGAGG GCAGAGGCTGTGGCTGCAGGCAGACTTTTCCCTACCTCTGCTATTAGCAATGGTTGAAAT CATGTGGCTTGTGTTGGGCGTATTNTTGTATGGATCCTTTCACTTGATCATATGACGA AATGCTTATAGAGTAGCTCCGACCTAGATGATGATTCTTCTGTAGCATCTGGCCCT CACATGTCAGAGGATNTAATTGTGTCAATTGCGAAAGGTTGATTGAACCCAGAGTTTAA TATCTCTGCTCTCAAGTNTCACCCAGTANNAAGAAGATCCAGAAGCCACTGGTTTAGCAT ACGAANACCGGGNGGTACAGGGCGGGTATTACACCGGGTTTGGGAATGGACAATTAATA TGCTCGCACTGCCCTTCTCTGATTGCTATGAAACAAATGAGTACATACGTGGGGAATTT ATACATCTTTTAAAAGGGCGGGCTTTCTNTTTAGTCTAA
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_181839
<b>OTI Disclaimer:</b>	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).
<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>	<a href="#">NM_181839.1</a> , <a href="#">NP_862822.1</a>
<b>RefSeq Size:</b>	2055 bp
<b>RefSeq ORF:</b>	231 bp
<b>Locus ID:</b>	5569
<b>UniProt ID:</b>	<a href="#">P61925</a>
<b>Cytogenetics:</b>	8q21.13
<b>Protein Families:</b>	Druggable Genome

**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]

Transcript Variant: This variant (2) lacks an exon in the 5' UTR, as compared to variant 1. Both variants encode the same protein. 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.