

## Product datasheet for SC110232

### PKIG (NM\_007066) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PKIG (NM_007066) Human Untagged Clone
Tag:	Tag Free
Symbol:	PKIG
Synonyms:	PKI-gamma
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC110232 sequence for NM_007066 edited (data generated by NextGen Sequencing)

```
ATGATGGAGGTCGAGTCCCTACTCGGACTTCATCTCCTGTGACCCGACAGGCCGTCGG
AATGCGGTCCCTGACATCCAGGGAGACTCAGAGGCTGTGAGCGTGAGGAAGCTGGCTGGA
GACATGGGCGAGCTGGCACTCGAGGGGGCAGAAGGACAGGTGGAGGGAAGCGCCCCAGAC
AAGGAAGCTGGCAACCAGCCCCAGAGCAGCGATGGGACCACCTCGTCTTGA
```

Clone variation with respect to NM\_007066.3

#### 5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_007066 unedited
NGAGGGTCGAATTTGTATACGACTCCTATAGGCGGCCCGCAATTCGCACGAGGCCTCGT
GCCGAATTCGGCACGAGGCAACGGGCTCCGCTGCGGGTTGCGGGCTGCGGGCGTAGGCT
GCCCCGGGAGGCGCTGCGGACCGCGGCCAGGCACGGAGAGGCGCGAGACCGCAGAA
TTCCCGTACTGATTAGTCAACAGTGAAAAATCTGAAGAGATGCAAGCAGGAAAAAGAAAT
TAAACCAGGCCTGAGGAGCGATGCGACAGGCATGATGGAGGTCGAGTCCCTACTCGGA
CTTCATCTCCTGTGACCCGACAGGCCGTCGGAATGCGGTCCCTGACATCCAGGGAGACTC
AGAGGCTGTGAGCGTGAGGAAGCTGGCTGGAGACATGGGCGAGCTGGCACTCGAGGGGGC
AGAAGGACAGGTGGAGGGAAGCGCCCCAGACAAGGAAGCTGGCAACCAGCCCCAGAGCAG
CGATGGGACCACCTCGTCTTGAATCTGACCTTGTCCAAGAAGGCTGGACGAGAGACCTTC
TGTCCTCCAGAGGGGGAACCCTGGCACTGGCCAGCAGCCTCTTCTGAGTCCAT
GTCCCAGATAAACAGGCCAGACTGAGAAGGCTCCCCAGAGGCCTCTGTGGCCTCCACTC
CGGGAAAGCCCTCTGCCACACCCACAGGCTTACATTCCACCACCTTCGCACCGTGCC
CAGGTACACTNTCAAGACTGTAAACCAAGATGTTATTTATTGAGCTGGCGCCGGGAC
TTGNGCGNGCCTGCCCTACAGTGAGCAGCCACACAGGAACGCCTCTCGCGAGCGGC
CCCAGGAGGACCTGTTCCACACCAACACCTCCTCTCAGCCCCATCTTCTGG
```



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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_007066 unedited GACCGCGGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTAAACAAATCATCGGCAT TTATTTCTGGGTCTAGGTGTCATTATCCTGGTGGACAGGGCAAAGGTGGTCAAATCG TTTTGAGCCAAAATCCCTTCCCTAAAAATGGATCTGTGGAGCTCCATGAGGGAACCTCAG AGATGCACAATGACAGTTTACCTAAAAATGGCTTAAAAATGTGAATTGATTGTCAGCTCT CTCCATATCTGCTGAAAAAAGGTTTAAAAATTTTTAAAAAGTTTAAAAAGTTTTTCTAAAA AAGGGACAAGCAGTCTGGACCCAAAAAATTGGGCTGGAAGGAGGTGTTGGTGTGGGA CAGGGTCCCTGCCCGGGCCGCTCGCGAGAGGAGGTTCCCTGTGTGGGCTGCTCACTGTAG GGCAGGCCCGCCCAAGTCCCGGCGCCAGCTCAATAAATAACATCTTGTGGTTACAGTGC CTTGAAAGTGTACCTGGGCACGGTGCAAAGGTGGTGGGAATGTGAAGCCTGTGGGTGTGG GCAGAGGGCTTTCCCGAGTGGAGGCCACAGAGGCCTCTGGGAGCCTTCTCAGCCTGGC CTGTTTCATCTCGGACATGGACTTCATACAAAAGGCCTGTTGGCCACTGCCAGGTTCC CCCCCTCTGGAGGACCTAAGGACTCTACATCACACCTTTTTGAACAAGGCCACACTCAC CACCACGACGGCCACTCTCCGCTCTGTGGCTTGATCGCCCTTGATATTATTGGCGAA CATTCCATCAGCCTACCTCATTCCACACCTACAATCAACCTCGCTCAAACCCCTCA ACCCCGGTGTTTTCTTGGGATCCCAGATCATCCGATCATATTAACCTCTTACCCCTT TCACCCATTCCCTCCACTCAN
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_007066
<b>Insert Size:</b>	1210 bp
<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_007066.3</a> , <a href="#">NP_008997.1</a>
<b>RefSeq Size:</b>	1206 bp
<b>RefSeq ORF:</b>	231 bp
<b>Locus ID:</b>	11142
<b>UniProt ID:</b>	<a href="#">Q9Y2B9</a>
<b>Cytogenetics:</b>	20q13.12
<b>Domains:</b>	PKI
<b>Protein Families:</b>	Druggable Genome

**Gene Summary:**

This gene encodes a member of the protein kinase inhibitor family. Studies of a similar protein in mice suggest that this protein acts as a potent competitive cAMP-dependent protein kinase inhibitor, and is a predominant form of inhibitor in various tissues. The encoded protein may be involved in osteogenesis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]

Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 4. Variants 1-5 encode the same protein. COMPLETENESS: complete on the 3' end.