

## Product datasheet for **SC323335**

### PHKG1 (NM\_006213) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PHKG1 (NM_006213) Human Untagged Clone
Tag:	Tag Free
Symbol:	PHKG1
Synonyms:	PHKG
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_006213, the custom clone sequence may differ by one or more nucleotides

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ATGACCCGGGACGAGGCACTGCCGGACTCTCATTCTGCACAGGACTTCTATGAGAATTATGAGCCCAAAG
AGATCCTGGGCAGGGGCGTTAGCAGTGTGGTCAGGCGATGCATCCACAAGCCACGAGCCAGGAGTACGC
CGTGAAGGTCAATCGACGTCACCGGTGGAGGAGCTTCAGCCCGGAGGAGGTGCGGGAGCTGCGAGAAGCC
ACGCTGAAGGAGGTGGACATCCTGCGCAAGGTCTCAGGGCACCCCAACATCATAACAGCTGAAGGACACTT
ATGAGACCAACACTTTCTTCTTGGTGTGGACCTGATGAAGAGAGGGGAGCTCTTTGACTACCTCAC
TGAGAAGGTACCTTGAGTGAGAAGGAAACCAGAAAGATCATGCGAGCTCTGCTGGAGGTGATCTGCACC
TTGCACAAACTCAACATCGTGCACCGGGACCTGAAGCCCGAGAACATTCTTTGGATGACAACATGAACA
TCAAGCTCACAGACTTTGGCTTTTCTGCCAGCTGGAGCCGGGAGAGAGGCTGCGAGAGGTCTGCGGGAC
CCCCAGTTACCTGGCCCTGAGATTATCGAGTGTCCATGAATGAGGACCACCCGGGCTACGGGAAAGAG
GTGGACATGTGGAGCACTGGCGTCATCATGTACACGCTGCTGGCCGGCTCCCCGCCCTTCTGGCACCAGG
AGCAGATGCTGATGCTGAGGATGATCATGAGCGGCAACTACAGTTTGGCTCGCCGAGTGGGATGATTA
CTCGGACACCGTGAAGGACCTGGTCTCCCGATTCTGGTGGTGAACCCAGAACCGCTACACAGCGGAA
GAGGCCTGGCACACCCCTTCTCCAGCAGTACTTGGTGGAGGAAGTGCAGGCACTTACGCCCCGGGGGA
AGTTCAAGGTGATCGCTCTGACCGTGTGGCTTCAAGTGGGATCTACTACAGTACCGCCGGGTGAAGCC
TGTGACCCGGGAGATCGTATCCGAGACCCCTATGCCCTCCGGCTTCCGCGGCTCATCGACGCTAC
GCTTTCCGAATCTATGGCCACTGGGTGAAGAAGGGGCAGCAGCAGAACCGGCGAGCCCTTTTCGAGAACA
CACCCAAGGCCGTGCTCCTCTCCCTGGCCGAGGAGGACTACTGA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for mutant NM_006213 unedited ACCGCCGTTGAGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAA CCGTCAGAATTTTGTAAACGACTACTATAGGGCGGCCGCAATTCGGCACGAGGGTCTGCTCGGGACA CGGCTTCAGCCCTCTGTGGTCCCCTCTCCCCGGGGGGCTTTGGGATTCTTGTCAGACTCCTTCAAGAGCC TGCAAGCACTTAACCAGCCACCCAGAGTCCCTCACTGAAGATCTGAGCATGACCCGGGACGAGGCACTG CCGGACTCTCATTCTGCACAGGACTTCTATGAGAATTATGAGCCCCAAAGAGATCCTGGGCAGGGGCGTT AGCAGTGTGGTCAGGCGATGCATCCACAAGCCCACGAGCCAGGAGTACCCCGTGATGGGTCATCGACG TCACCGGTGGGAGGCAGCTTTCAGCCCCGGAGGAAGGTGCGGGAAGCTGCGGGAAGCCAACGCTGAGGAA GGTGGACATCCCTGGGCAGGGCTTAAGGGAACCCCAACTATAACGGCTGAAGGACATTTATAAGCCCA CAATTTCTCTCCCTGTGTGTTGGCCCTGTGAGAGAGAGGGGAGTTCTTGCTTCTTAAGTAGAAGGCA CCTGATGAGAAGGGACCCGGAGGTCTATCGAGCTGCCTGAGTGATATGGCACTTGCCCAACTCAATCTGG ACGACCTGAGCCGAAATTTGGATACACATGACTAGCTCAAAGTCTACGCACTGACCCGGAGAGCTCAA GTCCCGAACCGGTACTGCTGAATCCAGGTCTAATAGAACGCACGGATGATTGAAGTCTAGTAGCTTGG CGTCGCCTTG
<b>Kinase Domain Sequence:</b>	>SC323335 kinase domain raw sequence. By performing <a href="#">BLASTX</a> analysis with this sequence against NCBI reference protein database, you can confirm the presence of the kinase-deficient mutation CSAAGMGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTC AGAATTTTGTAAACGACTACTATAGGGCGGCCGCAATTCGGCACGAGGGTCTGCTCGGGACACGGCT TCAGCCCTCTGTGGTCCCCTCTCCCCGGGGGGCTTTGGGATTCTTGTCAGACTCCTTCAAGAGCCTGCAA GCACTTAACCAGCCACCCAGAGTCCCTCACTGAAGATCTGAGCA
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_006213
<b>Insert Size:</b>	4700 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>OTI Annotation:</b>	This kinase-deficient mutant clone was generated by created by site-directed mutagenesis from the corresponding wild-type clone. See details in "Application of active and kinase-deficient kinome collection for identification of kinases regulating hedgehog signaling." <a href="#">Cell, 2008 May p536-548.</a>
<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_006213.2</a> , <a href="#">NP_006204.1</a>
<b>RefSeq Size:</b>	2130 bp

RefSeq ORF:	2130 bp
Locus ID:	5260
UniProt ID:	<a href="#">Q16816</a>
Cytogenetics:	7p11.2
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Calcium signaling pathway, Insulin signaling pathway
Gene Summary:	<p>This gene is a member of the Ser/Thr protein kinase family and encodes a protein with one protein kinase domain and two calmodulin-binding domains. This protein is the catalytic member of a 16 subunit protein kinase complex which contains equimolar ratios of 4 subunit types. The complex is a crucial glycogenolytic regulatory enzyme. This gene has two pseudogenes at chromosome 7q11.21 and one at chromosome 11p11.12. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2012]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon compared to variant 1. The resulting protein (isoform 2) is shorter compared to isoform 1.</p>