

Product datasheet for **SC321556**

PHKG2 (NM_000294) Human Untagged Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | PHKG2 (NM_000294) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | PHKG2 |
| Synonyms: | GSD9C |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC (PS100020) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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Fully Sequenced ORF: >OriGene sequence for NM_000294.1
 CCGGCGACAGCGCAGCTCGCGTCGACCCTGGCTCCTCTGCCTGCCCCCTCAGGCCCCCGC
 CTCCTTACAGGATGACGCTGGACGTGGGGCCGGAGGATGAGCTGCCGACTGGGCCCCCGC
 CAAAGAGTTTTACCAGAAGTACGACCCTAAGGACGTATCGGCAGAGGAGTGAGCTCTGT
 GGTCCGCCGTTGTGTTTCATCGAGCTACTGGCCACGAGTTTGGCGTGAAGATTATGGAAGT
 GACAGCTGAGCGGCTGAGTCTGAGCAGCTGGAGGAGTGCGGGAAGCCACACGGCGAGA
 GACACACATCCTTCGCCAGGTCCGCCGCCACCCACATCATCACCTCATCGATTCTTA
 CGAGTCTTCTAGCTTCATGTTCTGTTGTTGACCTGATGCGGAAGGGAGAGCTGTTTGA
 CTATCTCACAGAGAAGGTGGCCCTCTCTGAAAAGGAAACCAGGTCCATCATGCGGTCTCT
 GCTGGAAGCAGTGAGCTTCTCCATGCCAACACATTGTGCATCGAGATCTGAAGCCCGA
 GAATATTCTCCTAGATGACAATATGCAGATCCGACTTTCAGATTTGCGGTTCTCTGCCA
 CTTGGAACCTGGCGAGAAGCTTCGAGAGTTGTGTGGGACCCAGGGTATCTAGCGCCAGA
 GATCCTTAAATGCTCCATGGATGAAACCCACCCAGGCTATGGCAAGGAGGTGACCTCTG
 GGCCTGTGGGGTATCTTGTTCACACTCCTGGCTGGCTCGCCACCCTTCTGGCACCGCCG
 GCAGATCTGATGTTACGCATGATCATGGAGGGCCAGTACCAGTTCAGTTCACCCCGAGT
 GGATGACCGTTCACGACTGTCAAAGACCTGATCTCCAGGCTGCTGCAGGTGGATCCTGA
 GGCACGCCTGACAGCTGAGCAGGCCCTACAGCACCCCTTCTTTGAGCGTTGTGAAGGCAG
 CCAACCTGGAACCTCACCCCGCCAGCGGTTCCGGGTGGCAGTGTGGACAGTGCTGGC
 TGCTGGACGAGTGGCCCTAAGCACCCATCGTGTACGGCCACTGACCAAGAATGCACTGTT
 GAGGGACCCCTTATGCGCTGCGGTGAGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGTGC
 CTACGGGCACTGGGTAAGAAAGGGGAGCAGCAGAACCGGGCGGCTCTTTTCAGCACCG
 GCCCCTGGGCCCTTTCCCATCATGGGCCCTGAAGAGGAGGGAGACTCTGCTGCTATAAC
 TGAGGATGAGGCGGTGCTTGTGCTGGGCTAGGACCTCAACCCAGGGATTCCCAGGAAGC
 AGAACTCTCCAGAAGAAGGGTTTTGATCATTCCAGCTCCTCTGGGCTCTGGCCTCAGGCC
 CACTAATGATCCTGCTACCCTCTGAAGACCAGCCCGGTACCTCTCTCCCACTGGCCAG
 GACTCTGAGATCAGAGCTGGGTGGAAGGGAGCCATTCTGAACGCCACGCTGGCCCGGT
 CAGTGCTGCATGCACTGCATATGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_000294

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.

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_000294.1](#), [NP_000285.1](#)

RefSeq Size: 1571 bp

RefSeq ORF: 1221 bp

Locus ID: 5261

UniProt ID: [P15735](#)

Cytogenetics: 16p11.2

Domains: pkinase, TyrKc, S_TKc

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Calcium signaling pathway, Insulin signaling pathway

Gene Summary: Phosphorylase kinase is a polymer of 16 subunits, four each of alpha, beta, gamma and delta. The alpha subunit includes the skeletal muscle and hepatic isoforms, encoded by two different genes. The beta subunit is the same in both the muscle and hepatic isoforms, and encoded by one gene. The gamma subunit also includes the skeletal muscle and hepatic isoforms, and the hepatic isoform is encoded by this gene. The delta subunit is a calmodulin and can be encoded by three different genes. The gamma subunits contain the active site of the enzyme, whereas the alpha and beta subunits have regulatory functions controlled by phosphorylation. The delta subunit mediates the dependence of the enzyme on calcium concentration. Mutations in this gene cause glycogen storage disease type 9C, also known as autosomal liver glycogenosis. Alternatively spliced transcript variants encoding different isoforms have been identified in this gene.[provided by RefSeq, Feb 2010]
Transcript Variant: This variant (1) encodes the longer 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.