

## Product datasheet for **TP762542**

### PHKG2 (NM\_000294) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human phosphorylase kinase, gamma 2 (testis) (PHKG2), transcript variant 1, 50ug
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	A DNA sequence encoding the region full length of PHKG2
Tag:	N-GST and C-HIS
Predicted MW:	46.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	50mM Tris, pH8.0, 8M Urea
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for at least 1 year from receipt of products under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_000285</a>
Locus ID:	5261
UniProt ID:	<a href="#">P15735</a>
RefSeq Size:	5503
Cytogenetics:	16p11.2
RefSeq ORF:	1218
Synonyms:	GSD9C



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**Summary:**

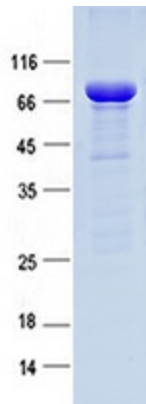
Phosphorylase kinase is a polymer of 16 subunits, four each of alpha, beta, gamma and delta. The alpha subunit includes the skeletal muscle and hepatic isoforms, encoded by two different genes. The beta subunit is the same in both the muscle and hepatic isoforms, and encoded by one gene. The gamma subunit 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]

**Protein Families:**

Druggable Genome, Protein Kinase

**Protein Pathways:**

Calcium signaling pathway, Insulin signaling pathway

**Product images:**

Coomassie blue staining of purified PHKG2 protein (Cat #TP762542). The protein was produced from E.coli.