

Product datasheet for **RG229959**

PHKG2 (NM_001172432) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PHKG2 (NM_001172432) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: PHKG2
Synonyms: GSD9C
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG229959 representing NM_001172432
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGGATCGCC

ATGACGCTGGACGTGGGGCCGGAGGATGAGCTGCCGACTGGGCCGCCCAAAGAGTTTTACCAGAAGT
 ACGACCCTAAGGACGTCATCGGCAGAGGAGTGAGCTCTGTGGTCCGCCGTTGTGTTTCATCGAGCTACTGG
 CCACGAGTTTGGGTGAAGATTATGGAAGTGACAGCTGAGCGGCTGAGTCCTGAGCAGCTGGAGGAGGTG
 CGGAAGCCACACGGCGAGAGACACACATCCTTCGCCAGGTGCGCCGCCACCCCCACATCATCACCTCA
 TCGATTCTACGAGTCTTCTAGCTTCATGTTCTGGTGTGGACCTGATGCGGAAGGGAGAGCTGTTTGA
 CTATCTCACAGAGAAGGTGGCCCTCTCTGAAAAGGAAACCAGGTCCATCATGCGGTCTCTGCTGGAAGCA
 GTGAGCTTTCTCCATGCCAACAACATTGTGCATCGAGATCTGAAGCCCGAGAATATTCTCTAGATGACA
 ATATGCAGATCCGACTTTTCAGATTTTCGGTTCTCTGCCACTTGGAACTGGCGAGAAGCTTCGAGAGTT
 GTGTGGGACCCAGGGTATCTAGCGCCAGAGATCCTTAAATGCTCCATGGATGAAACCCACCCAGGCTAT
 GGCAAGGAGGTCGACCTCTGGCCTGTGGGTGATCTTGTTCACACTCCTGGCTGGCTCGCCACCCCTTCT
 GGCACCGCGGCAGATCCTGATGTTACGCATGATCATGGAGGGCCAGTACCAGTTCAGTTCACCCGAGTG
 GGATGACCGTTCACGACTGTCAAAGACCTGATCTCCAGGCTGCTGCAGGTGGATCCTGAGGCACGCCTG
 ACAGCTGACGAGCCCTACAGCACCCCTTCTTTGAGCGTTGTGAAGGCAGCCAACCCCTGGAACCTCACCC
 CCGCCAGCGGTTCCGGGTGGCAGTGTGGACAGTGTGGCTGCTGGACGAGTGGCCCTAAGCACCCATCG
 TGTACGGCCACTGACCAAGAATGCACTGTTGAGGGACCCTTATGCGCTGCGGTGAGTGGCGCACCTCATC
 GACAAGTGTCCCTTCGGCTCTACGGGCACTGGATAAGGAAGCAGTGGATTGAAAGCTGATGGCTGTG
 TA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG229959 representing NM_001172432
 Red=Cloning site Green=Tags(s)

MTLDVGPEDLPDWAAAKEFYQKYDPKDVIGRGVSSVVRRCVHRATGHEFAVKIMEVTAERLSPEQLEEV
 REATRRETHILRQVAGHPHIITLIDSYESSFMFLVFDLMRKGELFDYLTEKVALSEKETRSIMRSLLEA
 VSFLHANNIVHRDLKPENILLDDNMQIRLSDFGF SCHLEPGEKLRCLGTPGYLAPEILKCSMDETHPGY
 GKEVDLWACGVILFTLLAGSPPFWHRRQILMLRMIMEGQYQFSSPEWDDRSSTVKDLISRLQLQVDPEARL
 TAEQALQHPFFERCEGSQPWNLTPRQFRVAVWTVLAAGRVALSTHRVRPLTKNALLRDPYALRSVRHLI
 DNCAFRLYGHWIRKQWIGKLMACV

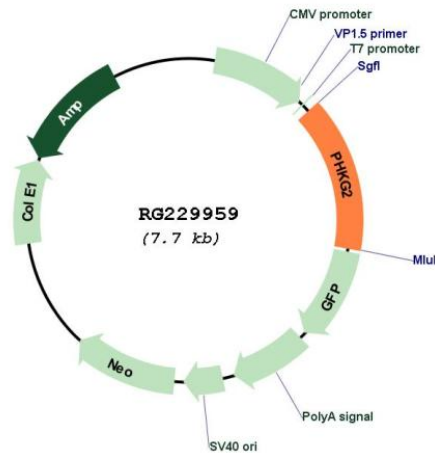
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001172432

ORF Size:	1122 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	<ol style="list-style-type: none">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_001172432.1 , NP_001165903.1
RefSeq Size:	2367 bp
RefSeq ORF:	1125 bp
Locus ID:	5261
UniProt ID:	P15735
Cytogenetics:	16p11.2
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]