

Product datasheet for **RG233923**

PHKG1 (NM_001258460) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PHKG1 (NM_001258460) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PHKG1
Synonyms:	PHKG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG233923 representing NM_001258460 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCCGGGACGAGGCACTGCCGGACTCTCATTCTGCACAGGACTTCTATGAGAATTATGAGCCCAAAG
AGATCTGGGCAGGGGCGTTAGCAGTGTGGTCAGGCGATGCATCCACAAGCCACGAGCCAGGAGTACGC
CGTGAAGGTCATCGACGTCACCGGTGGAGGAGCTTCAGCCCGGAGGAGGTGCGGGAGCTGCGAGAAGCC
ACGCTGAAGGAGGTGGACATCCTGCGCAAGCTGAAGGACACTTATGAGACCAACACTTTCTTCTTGG
TGTTTGACCTGATGAAGAGAGGGGAGCTCTTTGACTACCTCACTGAGAAGGTCACCTTGAGTGAGAAGGA
AACCAGAAAGATCATGCGAGCTCTGCTGGAGGTGATCTGCACCTTGACACAACTCAACATCGTGACCCGG
GACCTGAAGCCCGAGAACATTCTCTTGGATGACAACATGAACATCAAGCTCACAGACTTTGGCTTTTCT
GCCAGCTGGAGCCGGGAGAGAGGCTGCGAGAGGTCTGCGGGACCCCAAGTTACCTGGCCCTGAGATTAT
CGAGTGCTCCAATGAATGAGGACCACCCGGGCTACGGGAAAGAGGTGGACATGTGGAGCACTGGCGTCATC
ATGTACACGCTGCTGGCCGGCTCCCCGCCCTTCTGGCACCGGAAGCAGATGCTGATGCTGAGGATGATCA
TGAGCGGCAACTACCAGTTTGGCTCGCCGAGTGGGATGATTACTCGGACACCGTGAAGGACCTGGTCTC
CCGATTCCTGGTGGTGAACCCCAAGACCGCTACACAGCGGAAGAGGCCCTTGGCACACCCCTTCTCCAG
CAGTACTTGGTGGAGGAAGTGGGCACTTCAGCCCGGGGGAAGTTCAAGGTGATCGCTGACCGTGC
TGGCTTACAGTGGGATCTACTACAGTACCGCCGGTGAAGCCTGTGACCCGGGAGATCGTCATCCGAGA
CCCCTATGCCCTCCGGCTCTGCGCCGGCTCATCGACGCCTACGCTTTCCGAATCTATGGCCACTGGGTG
AAGAAGGGGACGAGCAGAAACCGGGCAGCCCTTTTCGAGAACACACCCAAAGGCCGTGCTCCTCTCCCTGG
CCGAGGAGGACTAC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG233923 representing NM_001258460
 Red=Cloning site Green=Tags(s)

MTRDEALPDSHSAQDFYENYEPKEILGRGVSSVVRRCIHKPTSQEYAVKVIDVTGGGSFSPEEVRELREA
 TLKEVDILRKLKDTYETNTFFFLVFDLMKRGELFDYLTEKVTLSEKTRKIMRALLEVICTLHKLNIIVHR
 DLKPENILLDDNMNIKL TDFGFSQCLEPGERLREVCCTPSYLAPEIIECSMNEDHPGYGKEVDMWSTGVI
 MYTLLAGSPPFWHRKQMLMLRMIMSGNYQFGSPEWDDYSDTVKDLVSRFLVVQPQNRYTAEALAHPPFQ
 QYLVEEVRHFSRPGKFKVIALTVLASVRIYYQYRRVKPVTREIVIRDPYALRPLRRLIDAYAFRIYGHWW
 KKGQQNRAALFENTPKAVLLSLAEDY

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001258460

ORF Size: 1134 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:

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_001258460.1](#), [NP_001245389.1](#)

RefSeq Size: 2103 bp

RefSeq ORF: 1137 bp

Locus ID: 5260

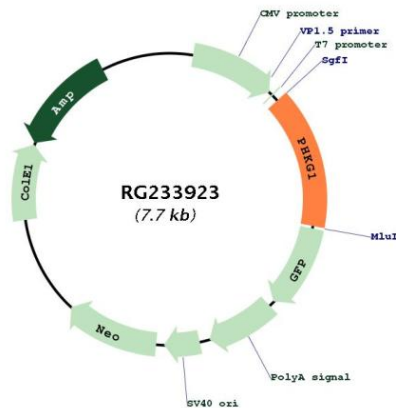
Cytogenetics: 7p11.2

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Calcium signaling pathway, Insulin signaling pathway

Gene Summary: 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]

Product images:



Circular map for RG233923