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Product datasheet for RG234043

PHKG1 (NM_001258459) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PHKG1 (NM_001258459) 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:

>RG234043 representing NM_001258459
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACCCGGGACGAGGCACTGCCGGACTCTCATTCTGCACAGGACTTCTATGAGAATTATGAGCCCAAAG
AGATCCTGGGCAGGGGCGTTAGCAGTGTGGTCAGGCGATGCATCCACAAGCCCACGAGCCAGGAGTACGC
CGTGAAGGTCATCGACGTCACCGGTGGAGGCAGCTTCAGCCCGGAGGAGGTGCGGGAGCTGCGAGAAGCC
ACGCTGAAGGAGGTGGACATCCTGCGCAAGGTCTCAGGGCACCCCAACATCATACAGCTGAAGGACACTT
ATGAGACCAACACTTTCTTCTTCTTGGTGTTTGACCTATGGGAAGACACTGATACAATGGAGATGGAACA
GAAATGGTGCTTGGGCTGGGACTCTCCCAAGTCCACCAACTTCAGGGCCCAGGGCAGGGCAAGGATGAAG
AGAGGGGAGCTCTTTGACTACCTCACTGAGAAGGTCACCTTGAGTGAGAAGGAAACCAGAAAGATCATGC
GAGCTCTGCTGGAGGTGATCTGCACCTTGCACAAACTCAACATCGTGCACCGGGACCTGAAGCCCGAGAA
CATTCTCTTGGATGACAACATGAACATCAAGCTCACAGACTTTGGCTTTTCCTGCCAGCTGGAGCCGGGA
GAGAGGCTGCGAGAGGTCTGCGGGACCCCCAGTTACCTGGCCCCTGAGATTATCGAGTGCTCCATGAATG
AGGACCACCCGGGCTACGGGAAAGAGGTGGACATGTGGAGCACTGGCGTCATCATGTACACGCTGCTGGC
CGGCTCCCCGCCCTTCTGGCACCGGAAGCAGATGCTGATGCTGAGGATGATCATGAGCGGCAACTACCAG
TTTGGCTCGCCCGAGTGGGATGATTACTCGGACACCGTGAAGGACCTGGTCTCCCGATTCCTGGTGGTGC
AACCCCAGAACCGCTACACAGCGGAAGAGGCCTTGGCACACCCCTTCTTCCAGCAGTACTTGGTGGAGGA
AGTGCGGCACTTCAGCCCCCGGGGGAAGTTCAAGGTGATCGCTCTGACCGTGCTGGCTTCAGTGCGGATC
TACTACCAGTACCGCCGGGTGAAGCCTGTGACCCGGGAGATCGTCATCCGAGACCCCTATGCCCTCCGGC
CTCTGCGCCGGCTCATCGACGCCTACGCTTTCCGAATCTATGGCCACTGGGTGAAGAAGGGGCAGCAGCA
GAACCGGGCAGCCCTTTTCGAGAACACACCCAAGGCCGTGCTCCTCTCCCTGGCCGAGGAGGACTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

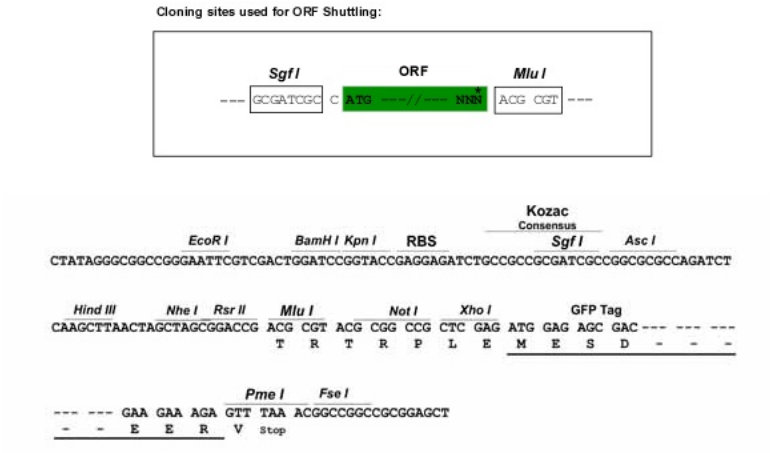
>RG234043 representing NM_001258459
Red=Cloning site Green=Tags(s)

MTRDEALPDSHSAQDFYENYEPKEILGRGVSSVVRRCIHKPTSQEYAVKVIDVTGGGSFSPEEVRELREA
TLKEVDILRKVSGHPNIIQLKDTYETNTFFFLVFDLWEDTDTMEMEQKWCLGWDSPKSTNFRAQGRARMK
RGELFDYLTEKVTLSEKETRKIMRALLEVICTLHKLNIVHRDLKPENILLDDNMNIKLTDFGFSCQLEPG
ERLREVCGTPSYLAPEIIECSMNEDHPGYGKEVDMWSTGVIMYTLLAGSPPFWHRKQMLMLRMIMSGNYQ
FGSPEWDDYSDTVKDLVSRFLVVQPQNRYTAEEALAHPFFQQYLVEEVRHFSPRGKFKVIALTVLASVRI
YYQYRRVKPVTREIVIRDPYALRPLRRLIDAYAFRIYGHWVKKGQQQNRAALFENTPKAVLLSLAEEDY

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001258459

ORF Size: 1257 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_001258459.1, NP_001245388.1

RefSeq Size: 2226 bp

RefSeq ORF: 1260 bp

Locus ID: 5260

UniProt ID: Q16816

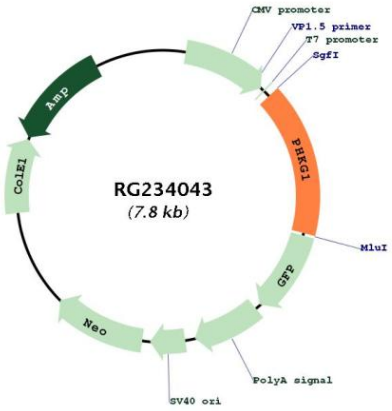
Cytogenetics: 7p11.2

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 RG234043