

Product datasheet for MR206062

Phkg1 (NM_011079) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phkg1 (NM_011079) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Phkg1
Synonyms:	Phkg
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206062 representing NM_011079 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCCGGGATGACGCCCTCCCTGACTCGCATTCTGCACAGACTTTCTACGAGAACTATGAGCCCAAGG
AGATCTGGGCAGGGGAGTCAGCAGTGTGGTCAGGCGTGCATCCACAAACCCACATGCCAGGAATACGC
AGTGAAAATCATTGACATCACCGGAGGAGGAAGCTTTAGCTCTGAGGAGGTACAGGAGCTTCGGGAAGCC
ACCCTGAAGGAGGTGGACATCCTGCAGAAGGTCTCGGGACACCCCAACATCATAACAGCTGAAGGACACTT
ACGAGACCAACACTTTCTTTCTTGGTATTTGATCTGATGAAGAGAGGGGAACCTTTGACTATCTCAC
TGAGAAGGTACCTTAACCGAGAAGGAAACCAGAAAGATCATGCGGGCCCTGCTGGAGGTGATCTGTACC
CTGCACAACTCAACATTGTCCATCGGGACCTGAAGCCGAGAATATCCTTTTGGATGACAAATGAATA
TAAAGCTCACAGACTTCGGGTTTTCTGCCAGTGCAGCCAGGAGAGAAGCTCCGAGAGGTTTTGTGGGAC
TCCCAGTTATCTGGCCCTGAAATCATAACAGTGTCCATGGACGACGGCCATCCTGGCTATGGGAAGGAG
GTGGACATGTGGAGCACAGGCGTCATCATGTACTCTGCTGGCTGGCTCCCCGCTTTCTGGCACCCGGA
AGCAAAATGCTGATGTTGCGGATGATCATGGACGGCAAAATACCAGTTTGGCTCACCAGAGTGGGATGACTA
CTCTGACACAGTAAAAGACTTGGTGTCTCGATTCTTGGTGGTGAACCTCAGGACCGCTGCTCGGCCGAA
GAGGCCCTGGCACACCCCTTTCTTTCAGGAGTACGTAGTAGAAGAAGTACGGCACCTCAGCCCCGAGGGA
AGTTCAAGGTGATCTGTCTAAGTGTGCTGGCATCAGTAAAGATCTACTACCAGTACCGTCCGGTGAAGCC
GGTAACAGGAGATCGTCATCCGAGACCCCTACGCCCTTCGGCCGCTGCGGAGGCTCATTGACGCCTAT
GCTTTCCGTATCTACGGCACTGGGTGAAGAAAGGGCAACAGCAGAACAGAGCCGCCCTCTCGAGAACA
CGCCAAAGGCTGTGCTCCTCTCTTGGCTGAGGAGGAGGACTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206062 representing NM_011079
Red=Cloning site Green=Tags(s)

MTRDDALPDSHSAQTFYENYEPKEILGRGVSSVVRRCIHKPTCQEYAVKIIDITGGGSFSSEEVQELREA
 TLKEVDILQKVS GHPNIIQLKDTYETNTFFFLVFDLMKRGELFDYLTEKVTLTEKETRKIMRALLEVIC
 LHKLNI VHRDLK PENILLDDNMNIKL TDFGFSQ LQPGEK LREVC GTPSYLAPEIIQCSMDGHPGYGKE
 VDMWSTGVIMY TLLAGSPPFWHRKQMLMLRMIMDGKYQFGSPEWDDYSDTVKDLVSRFLVVQPQDRCSAE
 EALAHPPFQEYVVEEVRHFS PRGKFKVICLTVLASVKIYYQYRRVKPVTREIVIRDPYALRPLRLRIDAY
 AFRIYGHVWKKGQQNRAALFENTPKAVLLSLAEEDF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9010_d04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_011079

ORF Size: 1164 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_011079.3](#)

RefSeq Size: 2391 bp

RefSeq ORF: 1167 bp

Locus ID: 18682

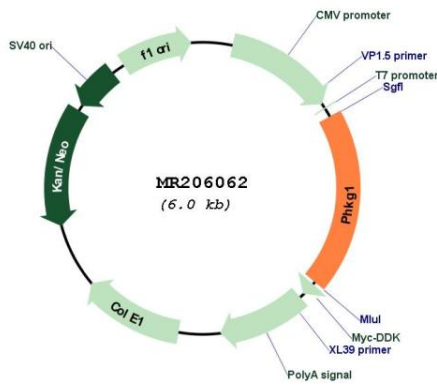
UniProt ID: [P07934](#)

Cytogenetics: 5 68.26 cM

MW: 45.4 kDa

Gene Summary: Catalytic subunit of the phosphorylase b kinase (PHK), which mediates the neural and hormonal regulation of glycogen breakdown (glycogenolysis) by phosphorylating and thereby activating glycogen phosphorylase. In vitro, phosphorylates PYGM, TNNI3, MAPT/TAU, GAP43 and NRGN/RC3 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206062