

Product datasheet for MR215779

Phkg2 (NM_026888) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phkg2 (NM_026888) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Phkg2
Synonyms:	1500017I02Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR215779 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACGTTGGACGTGGGGCCGGAGGATGAACTCCCTGACTGGGCTGCGGCCAAAGAGTTTTACCAGAAGT
ACGACCCTAAGGACATCATTGGCAGAGGAGTGAGCTCTGTGGTCCGCCGCTGTGCCATCGAGCTACCGG
TGATGAGTTCGCAGTGAAGATCATGGAGGTGTCAGCTGAGCGGCTGAGTCTTGAGCAGCTGGAGGAGGTG
CGGGATGCCACACGGCGAGAGATGCACATCTTCGCCAGGTGCTGGCCACCCCATATCATCACCTCA
TCGATTCTACGAGTCTTCTAGCTTCATGTTCCCTGGTGTGGACCTGATGCGGAAAGGAGAGCTGTTTGA
CTATCTCACCGAGAAAGTGGCCCTCTCAGAAAAGGAAACCAAGGTCATCATGAGGTCTCTACTGGAAGCA
GTGAGCTTTCTCCATGCCAACAAACATTGTACATCGAGACCTGAAGCCTGAGAATATTCTCTAGATGACA
ATATGCAGATACGCCCTTTCAGATTTTGGGTTCTCCTGCCATTTGGAAGCTGGCGAGAAGCTTCGAGAAGT
GTGCGGGACTCCAGGGTATCTAGCACCAGAGATCCTTAAATGCTCCATGGATGAAACCCACCCAGGCTAT
GGCAAGGAAGTTGATCTCTGGGCTTGTGGGGTATCCTGTTACACTTCTGGCTGGCTCACCCATTCT
GGCACCGCGCCAAATCCTGATGCTACGCATGATCATGGAAGGCCAATATCAGTTACTTACCTGAGTG
GGATGATCGTTCAAACACCGTCAAAGACCTGATCTCCAAGCTGCTGCAGGTGGATCCTGAAGCGCGCCTG
ACAGCTGAGCAAGCCCTGCAGCACCCCTCTTTGAGCGCTGTAAGGCAGCCAACCTTGGAACTCACGC
CTGCCAGCGGTTCCGGGTGGCAGTGTGACAATACTGGCTGCCGACGAGTGGCCTTAAGCAGTCAACCG
TTTACGGCCACTAACTAAGAATGCACTATTGAGAGACCCCTATGCACTGCGGCCAGTACGGCCCTCATC
GACAACTGTGCCTTCCGGCTCTATGGGCACTGGGTAAGAAGGGTGAAGCAGCAGAACCGGCAGCCCTCT
TCCAGCACCGCCTCCTAGGCTGTTCCCATGCTGCCACTGAACTCGAAGGAGACTCCGGTGCCATCAC
AGAGGATGAGGCTACACTGGTACGGAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >MR215779 protein sequence
 Red=Cloning site Green=Tags(s)

MTLDVGPEDLPDWAAAKEFYQKYDPKDIIGRVSSVVRRCVHRATGDEFVAVKIMEVSAERLSLEQLEEV
 RDATRREMHILRQVAGHPHIITLIDSYESSFMFLVFDLMRKGELFDYLTEKVALSEKETRSIMRSLLEA
 VSFLHANNIVHRDLKPENILLDDNMQIRLSDFGF SCHLEAGEKLRCLGTPGYLAPEILKCSMDETHPGY
 GKEVDLWACGVILFTLLAGSPFFWHRRLMLRMIMEGQYQFTSPEWDDRSNTVKDLISKLLQVDPPEARL
 TAEQALQHPFFERCEGSQPWNLTQRFRVAVWTILAAGRVALSSHRLRPLTKNALLRDPYALRPVRLI
 DNCAFRLYGHWKKGEQQNRAALFQHQPRLFPAAATELEGDSGAITEDEATLVRS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_026888

ORF Size: 1221 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_026888.3](#), [NP_081164.2](#)

RefSeq Size: 1644 bp

RefSeq ORF: 1221 bp

Locus ID: 68961

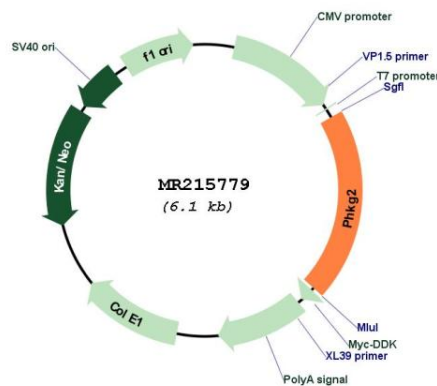
UniProt ID: [Q9DB30](#)

Cytogenetics: 7 F3

MW: 46.6 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. May regulate glycogeneolysis in the testis. In vitro, phosphorylates PYGM (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR215779