

Product datasheet for **MG215779**

Phkg2 (NM_026888) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phkg2 (NM_026888) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Phkg2
Synonyms:	1500017I02Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG215779 representing NM_026888 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACGTTGGACGTGGGGCCGGAGGATGAACTCCCTGACTGGGCTGCGGCCAAAGAGTTTTACCAGAAGT
ACGACCCTAAGGACATCATTGGCAGAGGAGTGAGCTCTGTGGTCCGCCGCTGTGCCATCGAGCTACCGG
TGATGAGTTCGCAGTGAAGATCATGGAGGTGTCAGCTGAGCGGCTGAGTCTTGAGCAGCTGGAGGAGGTG
CGGGATGCCACACGGCGAGAGATGCACATTCCTCGCCAGGTGCTGGCCACCCCATATCATCACCTCA
TCGATTCTACGAGTCTTCTAGTTCATGTTCCCTGGTGTGGACCTGATGCGGAAAGGAGAGCTGTTTGA
CTATCTCACCGAGAAAGTGGCCCTCTCAGAAAAGGAAACCAGGTCCATCATGAGGTCTCTACTGGAAGCA
GTGAGCTTTCTCCATGCCAACAAACATTGTACATCGAGACCTGAAGCCTGAGAATATTCTCCTAGATGACA
ATATGCAGATACGCCCTTTCAGATTTTGGGTTCTCCTGCCATTTGGAAGCTGGCGAGAAGCTTCGAGAAGT
GTGCGGGACTCCAGGGTATCTAGCACCAGAGATCCTTAAATGCTCCATGGATGAAACCCACCCAGGCTAT
GGCAAGGAAGTTGATCTCTGGGCTGTGGGGTATCCTGTTACACTTCTGGCTGGCTCACCACCTTCT
GGCACCGGCGCCAAATCCTGATGCTACGCATGATCATGGAAGGCAATATCAGTTTACTTACCTGAGTG
GGATGATCGTTCAAACACCGTCAAAGACCTGATCTCCAAGCTGCTGCAGGTGGATCCTGAAGCGCGCCTG
ACAGCTGAGCAAGCCCTGCAGCACCCCTTCTTTGAGCGCTGTGAAGGCAGCCAACCTTGGAACTCAGCG
CTCGCCAGCGGTTCCGGGTGGCAGTGTGACAATACTGGCTGCCGACGAGTGGCCTTAAGCAGTACCCG
TTTACGGCCACTAACTAAGAATGCACTATTGAGAGACCCCTATGCACTGCGGCCAGTACGGCCCTCATC
GACAACTGTGCCTTCCGGCTCTATGGGCACTGGGTAAGAAGGGTGAAGCAGCAGAACCGGCAGCCCTCT
TCCAGCACCAGCCTCCTAGGCTGTTCCCATGCTGCCACTGAACTCGAAGGAGACTCCGGTGCCATCAC
AGAGGATGAGGCTACACTGGTACGGAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG215779 representing NM_026888
 Red=Cloning site Green=Tags(s)

MTLDVGPEDLPDWAAAKEFYQKYDPKDIIGRVSSVVRRCVHRATGDEFVAKIMEVSAERLSLEQLEEV
 RDATRREMHLRQVAGHPHIITLIDSYESSFVFLVFDLMRKGELFDYLTEKVALSEKETRSIMRSLLEA
 VSFLHANNIVHRDLKPENILLDDNMQIRLSDFGF SCHLEAGEKLRCLGTPGYLAPEILKCSMDETHPGY
 GKEVDLWACGVILFTLLAGSPPFWHRRQILMLRMIMEGQYQFTSPEWDDRSNTVKDLISKLLQVDPEARL
 TAEQALQHPFFERCEGSQPWNLTPRQFRVAVWTILAAGRVALSSHRLRPLTKNALLRDPYALRPVRRLLI
 DNCAFRLYGHVWKKGEQQNRAALFQHQPPRLFPIAATELEGDSGAITEDEATLVRS

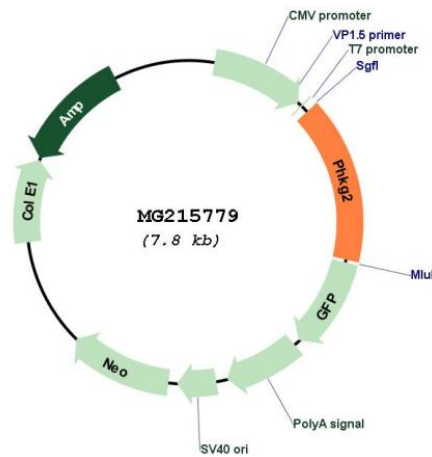
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_026888

ORF Size:	1218 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_026888.3 , NP_081164.2
RefSeq Size:	1644 bp
RefSeq ORF:	1221 bp
Locus ID:	68961
UniProt ID:	Q9DB30
Cytogenetics:	7 F3
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]