

Product datasheet for **MG211607**

Phkb (NM_199446) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phkb (NM_199446) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Phkb
Synonyms:	AI463271
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG211607 representing NM_199446 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAACCTCACCTGATGCAGCCTTCTCTTCACCTGCTTTGTTAAGGTCTGGCTCAGTTTATGAACCTC
TTAAAAGCATTAACTTCCAAGACCTGATAATGAACTCTATGGGATAAGTTGGATCATTATTACAGAAT
TGTCAGTCAACGATGCTGATGATCAAAGTCCAACCTACCGGTCTCTTCCCTACTAAAACATGTGGTGGGA
GAAGAGAAGTCCAAGTGCACGAGAGTCTGTACTGTGCTGCGGGTGCCTGGGCCTTGGCGCTAGCATACA
GGCGCATTGATGATGACAAGGGACGGACCCATGAGCTGGAGCACTCGGCCATAAAGTGTATGAGAGGAAT
TCTCTACTGCTACATGCGGCAGGCTGATAAGGTCCAACAGTTTAAACAAGATCCCCGGCCACAACATGT
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GGTGTCTGGGAAAGAGGAAGCAAATAAACAATGGTAGTACCGAAGTGCCTCAAGCTCTGTTGGTTTAG
CAAAGCAGCCTTAGAAGCAATTAATGGATTTAACCTCTTTGGAAACCAGGGGTGTTCTCGGTGAGTTAT
ATTTGTGGATCTCGATGCTCACAACCGCAACAGGCAGACATTGTGCTCACTGTTACCCAGAGAATCACGC
TCTCATAACACAGATGCTGCCCTGCTCCCGTGCATCAGTTACCTGCGTTTGCCTGGATGATGAAGCAG
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AGATGGGTACAGAACGCCATTGGAAGATCCCAACAGACGCTATTACAAACCAGCAGAGATTAAGCTGTTT
GATGGCATTGAATGTGAATTTCCATATTTCTTCTTTACATGATGATCGATGGTGTTTTTAGAGGCAATC
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TCAACGTAACGTGAGCATGAGATACTCCAATCAGGGCCACTGAAAAATGACTTGGTGGTTCATGTAGCA



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CTTGTAGCAGAAAGCCAACGCCTTCAAGTTTTCTCAATACATATGGTATTCAAACCCAACTCCTCAGC
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 CCACTGGGAAAAAGAGGAACCTGCAGCTACTTGACGAAGTTGTGATGAACTCACTGCTCGAGGGAGAAG
 TCAAGCCAGCAATGAGGACTCTGCTGGTTAGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG211607 representing NM_199446
 Red=Cloning site Green=Tags(s)

MANSPDAAFSSPALLRSGSVYEPLKINSINLPRPDNETLWDKLDHYRIVKSTMLMYQSPTTGLFPTKTCGG
 EEKSKVHESLYCAAGAWALALAYRRIIDDDKGRTHELEHSAIKCMRGILYCYMRQADKVVQFKQDPRPTTC
 LHSVFSVHTGDELLSYEEYGLQINAVSLFLLYLVEMISSGLQIINYNTDEVSFQINLVFCVERVYRVPDF
 GVWERGSKYNNSTELHSSVGLAKAALAEINGFNLFGNQGSWSVIFVDLDAHNRNRQTLCSLLPRESR
 SHNTDAALLPCISYPAFALDDEALFSQTLDKVIRKLGKYGFKRFLRDGYRTPLEDPNRRYYKPAEIKLF
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 AAFKGIIGGVKVVHVDRLQTLISGAVVEQLDFLRISDTEKLPFKFSFEELEFPKHSKVKRQSSADAPEA
 QHEPGITITEWKNKSTHEILQKLNDCGCLAGQTILLGILLKREGPNFITMEGTVDHIERVYRRAGSKKL
 WSVVRRASLLNKVVDSLAPSIITNVLVQKQVTLGAFGHEEEVINSPLSPRVIKNIYYKCNTHDEREAV
 IQQELVIHIGWIIISNPELFSGLMKIRIGWIIHAMEYELQVRGGDKPAVDLYQLSPSEVKQLLLDILQPQ
 QSGRCWLNRRQIDGSLNRTPEFYDRVWQILERTPNGIIVVAGKHLPPQPTLSDMTMYEMNFSLLVEDMLG
 NIDQPKYRQIIVELLMVVSIIVLERNPELEFQDKVDLDRLVKEAFHEFQKDESRLKEIEKQDDMTSFYNT
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TRTRPLE – GFP Tag – V

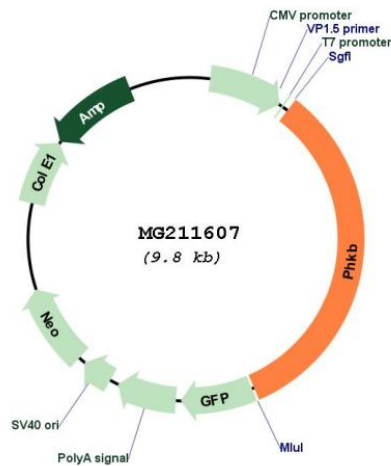
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_199446

ORF Size: 3255 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:	<u>NM_199446.2</u>
RefSeq Size:	4640 bp
RefSeq ORF:	3258 bp
Locus ID:	102093
UniProt ID:	<u>Q7TSH2</u>
Cytogenetics:	8 41.61 cM
Gene Summary:	Phosphorylase b kinase catalyzes the phosphorylation of serine in certain substrates, including troponin I. The beta chain acts as a regulatory unit and modulates the activity of the holoenzyme in response to phosphorylation (By similarity).[UniProtKB/Swiss-Prot Function]