

## Product datasheet for **MC223468**

### Phkb (NM\_199446) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Phkb (NM\_199446) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Phkb  
**Synonyms:** A1463271  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC223468 representing NM\_199446  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCCAACTCACCTGATGCAGCCTTCTTTACCTGCTTTGTTAAGGTCTGGCTCAGTTTATGAACCTC  
 TTTAAAGCATTAACTTTCAAGACCTGATAATGAACTCTATGGGATAAGTTGGATCATTATTACAGAAT  
 TGTCAGTCAACGATGCTGATGTATCAAAGTCCAACCTACCGGTCTTTTCTACTAAAACATGTGGTGGAA  
 GAAGAGAAGTCCAAAGTGCACGAGAGTCTGTACTGTGCTGCGGGTGCCTGGGCCTTGGCGCTAGCATACA  
 GGCGCATTGATGATGACAAGGGACGGACCCATGAGCTGGAGCACTCGGCCATAAAGTGTATGAGAGGAAT  
 TCTCTACTGCTACATGCGGCAGGCTGATAAGGTCCAACAGTTTAAACAAGATCCCCGGCCACAACATGT  
 CTTCACTCTGTTTTCACTGTGCACACTGGGGATGAGTTGCTCAGCTATGAAGAATATGGCCATCTTCAGA  
 TAAATGCAGTCTCACTCTTTCTCCTTTACCTGGTAGAAATGATTTCTCAGGCCTCCAGATAATCTATAA  
 CACGGATGAGGTTTTCTTTATTTCAAACCTTGTATTTGTGTAGAGAGAGTTTACCGTGTTCCTGACTTT  
 GGTGCTGGGAAAGAGGAAGCAAATAACAATGGTAGTACCGAACTGCCTCAAGCTCTGTTGGTTTTAG  
 CAAAAGCAGCCTTAGAAGCAATTAATGGATTTAACCTCTTTGAAACCAGGGGTCTCTGGTCAAGTTAT  
 ATTTGTGGATCTCGATGCTCACAACCGCAACAGGCAGACATTGTGCTCACTGTTACCCAGAGAATCACGC  
 TCTCATAACACAGATGCTGCCCTGCTCCCGTGCATCAGTTACCCTGCGTTTGCCTTGGATGATGAAGCAC  
 TGTTTCAGCCAGACACTTGATAAAGTGATAAGAAAATTGAAAGGAAAAATGGATTTAAGCGTTTCTTGCG  
 AGATGGGTACAGAACGCCATTGGAAGATCCCAACAGACGCTATTACAAACCAGCAGAGATTAAGCTGTTT  
 GATGGCATTGAATGTGAATTTCCATATTTCTTCTTTACATGATGATCGATGGTGTTTTTAGAGGCAATC  
 TTGAACAAGTCAAGGAATATCAGGACCTTTTGACACCTTTGCTTCATCAGACCACAGAAGGATATCCTGT  
 TGTGCCAAAGTACTATTATGTGCCAGCTGACTTTGTAGAATGTGAAAAAGAAACCCTGGTAGTCAGAAG  
 CGTTTTCCAAGTAACTGTGGCCGTGATGGGAAGTTGTTTCTTTGGGACAAGCTCTTTATATCATTGCAA  
 AACTCCTAGCTGATGAGTTAATCAGCCCTAAAGACATTGACCCTGTCCAGCGCTTTGTCCCACCTCAGAA  
 TCAACGTAACGTGAGCATGAGATACTCCAATCAGGGCCCACTGGAAAATGACTTGGTGGTTCATGTAGCA  
 CTTGTAGCAGAAAGCCAACGCCTCAAGTTTTCTCAATACATATGGTATTCAAACCCAACTCCTCAGC



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AGGTGGAACCCATTTCAGATCTGGCCTCAGCAGGAGCTTGTAAAAGCTTATTTCCACCTGGGAATCAATGA
AAAGTTGGGTCTGTCTGGAAGGCCAGATAGGCCATTGGCTGCCTTGGTACATCAAAGATTTATCGCATT
CTAGGAAAGACTGTGGTTTGTACCCTATCATCTTTGACCTGAGTGATTCTACATGTCTCAGGACGTTT
TGCTGCTCATAGATGACATAAAGAAGCAGTACAGTTCATTAAGCAATATTGGAAAATGCATGGACGCC
ACTTTTTCTTGTCTCATCCGAGAAGACAACATAAGAGGTAGCAGATTCAACCCAATATTAGACATGCTG
GCAGCCTTTAAAAAGGAATAATTGGAGGAGTCAAAGTTCATGTTGATCGTTTACAGACATTGATATCCG
GAGCTGTAGTAGAGCAGCTTGACTTTCTACGAATTAGTGACACAGAAAAGCTTCCAGAATTTAAGAGCTT
TGAAGAAGCTAGAATTTCCCTAAGCATTCAAAGTCAAACGGCAGAGCAGTACCGCAGATGCTCCTGAGGCG
CAACACGAGCCAGGCATCACCATTACCGAGTGGAAAAACAATCCACCCACGAAATCCTTCAGAAGCTGA
ATGACTGCGGTTGTCTGGCTGGTCAAACCATCCTGCTGGGTATACTGCTCAAAGAGAGGGCCCTAACTT
TATCACAATGGAAGGAAGTGTGTCTGATCATTGAGAGAGTGTATAGAAGAGCTGGCAGCAAAAAGCTT
TGGTGGTTGTACGCCGTGCAGCAAGTCTTTAAATAAAGTAGTGACAGCCTGGCCCCATCCATTACTA
ATGTTTTAGTGCAGGGCAAACAGGTAACCTAGGTGCCTTTGGACATGAAGAGGAGGTCTCTTAACCC
ACTGTCTCCAAGAGTGATTAAGAACATAATCTATTATAAGTGAATACCCACGATGAGAGGGAGGCAGTC
ATTCAGCAAGAAGTGGTATCCACATCGGCTGGATCATCTCCAACAGCCCTGAGTTGTTACGCGCATGC
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CAGAGTGGAAAGATGTTGGTTGAATAGACGTGAGATTGATGGGTCAATTGAATAGAACACCCCGGAATCT
ATGACCGAGTGTGGCAGATCCTGGAACGCACACCTAATGGTATCGTTGTAGCTGGAAGCATTGTCACA
GCAACCAACTTTGTGGATATGACCATGTATGAGATGAATTTTTCTCCTTGTGAAGATATGCTGGGA
AACATTGACCAGCCAAAGTATAGACAGATCATAGTTGAGTTACTAATGGTCGTATCCATTGTGCTGGAAA
GAAACCTGAACTGGAGTTTCAAGACAAAGTGGATCTGGACAGACTGGTTAAGAAGCGTTTCATGAGTT
TCAAAAAGATGAGAGTCGGCTAAAAGAAATCGAAAAACAAGATGATATGACTTCTTTTACAACACGCC
CCACTGGGAAAAAGAGGAACCTGCAGCTACTTGACGAAGGTTGTGATGAAGTCACTGCTCGAGGGAGAAG
TCAAGCCAGCAATGAGGACTCCTGCCTGGTTAGCTAG
    
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**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_199446
- Insert Size:** 3258 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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\\_199446.1](#), [NP\\_955517.1](#)

RefSeq Size: 4640 bp

RefSeq ORF: 3258 bp

Locus ID: 102093

UniProt ID: [Q7TSH2](#)

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]