

Product datasheet for **MC223856**

Phka1 (NM_173021) Mouse Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Phka1 (NM_173021) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Phka1 |
| Synonyms: | 5330411D17; 9830108K24Rik; Phka |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |
| Fully Sequenced ORF: | >MC223856 representing NM_173021 Red=Cloning site Blue=ORF Orange=Stop codon |

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGGAGCCGCAGTAACTCGGGAGTCCGCTGGACGGCTATGCTCGGCTGGTGCATCAGACCATCCTGT
GCCATCAGAATCCAGTGACAGGCTTGTCTCCAGCCAGCTATGATCAAAAAGATGCCTGGGTCGAGATAA
TGTGTACAGTATCCTGGCTGTGTGGGTTTGGGCTGGCATATCGCAAAAATGCTGACCGTGATGAGGAC
AAGGCAAAGGCCATGAAGTGGAGCAGAGTGTAGTGAAGTTAATGAGGGGACTGCTGCATGCATGATCA
GACAGGTGGATAAAGTAGAGTCTTCAAGTACAGTACAGTACTAAAGATAGCCTCCATGCCAAGTACAA
CACAAAACCTTGTGCCACTGTGGTGGGTGATGACCAGTGGGGACACCTGCAGTTGGATGCTACTTCTGTG
TACCTGCTCTTCTAGCACAAATGACTGCCTCAGGACTCCATATCATCCACAGCCTAGACGAAGTCAATT
TTATACAGAACCTCGTGTTTTACATTGAAGTGCATATAAAACTGCTGACTTTGGGATATGGGAACGTGG
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GCACTAGATGAATTAGACTTGTGGTGTGAAAGGTGGCCACAATCAGTTATCCATGCTCCTGGCTGATG
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CAGTCTGCTCTCAGTGGTCTTTTCCAGCCTTTGCTGTAGAGGACAGCCATTTGGTGGAGCTCACCAAA
CAGGAGATCATACCAAGCTTCAGGGTCTTATGGTTGCTGTGCTTTTTCTGCGAGATGGATATAAAACTC
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TTCTGGCTGAAACAGAAGAAATCAAGGCCATTTTGAAGGACAAAGGAATTGATGTGGAGACCATTGCTGA
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AGAATGAAACTCAGTGGACGACCCTACAGGCTCATGGGTGTGCTTGAACATCAAAACTTTATGACATTC



GCAAACTATCTTTACTTTCACCTCCACAGTTTATAGACCAGCAACAGTTCTACCTGGCTCTGGACAACCA
 GATGATAGTAGAAATGCTCAGAACAGACCTTTCCTACCTCTGTAGCCGCTGGAGGATGACAGGCCAGCCC
 ACGATCACTTTCCCTATCTCGCACACCATGCTTGATGAAGATGGAACCAGCTTGAATTCAGTATCTTGG
 CAGCACTCCGAAAAATGCAGGATGGCTATTTTGGTGGGGCCAGGATCCAAACAGGTAAATTTGTCAGAGTT
 TTTGACAACATCTTGCTGCACACACTTAAGCTTCATGGACCCTGGACCTGAGGGTAAGCTGTACAGTGAA
 GATTATGATGAAGACTATGAAGATGATTTGGACTCTGGCAACTGGATGGACAGCTATGATTCAACAAGTA
 ATGTGTTCCACATGTATCTTCTACAAAGTTATTTGAGCCTTCTCGTCCCTCACTCACTACTTACTGACTC
 CCTGAGTCTCCACAAGATAGCCAGTTCTTCCGTTTCATGTAGAAGTGATCTTCTAGGACCAGTCT
 GGGGAAGTGGACTTCCAGTCATTGGTTTTCACAGTTGAAGGAGACCTCAAGCTTACAGGAGCAAGCTGATA
 TACTCTACATGCTGATTCAATGAAAGGACCTGACTGGAACACTGAATTGTATGAAGAAGGGGGGCTAC
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 AACACCTGACAGTAGGACTTCTCCAGAACCTCGAGAGAAGACCATCTCTGCGCCTTACCGTACGAGGC
 ACTCACTAAGCTGATAGATGAAGCCAGTGAAGGCGACATGAGCATCTCAACCCTTACACAGGAAATATG
 GTCTATCTTGCCATGTATATGAGAACTCAGCCTGGCCTCTTTCAGAAAATGTTTCAGACTTCAATCGGTT
 TGATCATACAAGTTATGGCAACAGAACTAGCACACTCTTTCGATGTTACAGCTGAGGAAGCCACAGAGGG
 CCTGATGAATCTCAGTCCTTCCAGCCATGAAGAACCTCCTGCATCATTCTCAGTGGCAAAGAGTTTGGG
 GTGGAACGAAGCGTTTCGTCCTGATTCAATGTGAGTCTGCTATTTCCATCCATGAGATTGGTGTCTG
 TTGGAGCAACAAAACTGAACGAACTGGAATCATGCAGTTAAAAAGTGAGATAAAGCAGGTGGAATTTCCG
 TAGGCTGTCTGTCTCGATGGAGAGTCAGACTAGTGGTGGTTCATCCCTCGGGTGTAGATTTGATGTCGCCA
 TCCTTTCTGTCCCTGCAGCCTGTATTGCTGCAAGTAGTGGATCCTTTCCTACGGTGTGTATCATCAGA
 CATCTAAAGATAGTCGTCAAGCCAGTGGCAACGCAGGAGAAGGCTAGATGGAGCACTAAATAGAGTACC
 AATTGGATTTTATCAAAAAGTATGGAAAATTTTGCAGAAAATGTCATGGGCTTTCTGTGGAAGTTTTGTT
 CTTCCTCTTCAACCACTAGGGAGATGACCCAGGTGAGATTAATTTCTGTCCATGTGGAGTCTGTCC
 TGAATCGTGTCCCTCAGCCAGAATACGCCAACTTCTGTTGAAGCCATCCTTGTCTCACCATGCTGGC
 AGATATTGAAATTCATAGCATTGGGAGCATCATTGCTGTGGAGAAAATAGTTTCATATTGCCAACGACTTG
 TTCCTTCAAGAACAGAAAACCTCGGCGCAGATGATACCATGTTGGCAAAGGATCCTGCATCTGGCATCT
 GTACTCTCTGTATGACAGTGCACCCAGTGGCAGATTTGGCACCATGACCTACCTCTCCAAGGCAGCTGC
 CACCTACGTGCAGGAGTTTCTGCCACACAGCCTCTGTGCCATGCAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_173021
- Insert Size:** 3549 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_173021.3](#), [NP_766609.2](#)

RefSeq Size: 5938 bp

RefSeq ORF: 3549 bp

Locus ID: 18679

Cytogenetics: X 45.47 cM

Gene Summary: Phosphorylase b kinase catalyzes the phosphorylation of serine in certain substrates, including troponin I. The alpha chain may bind calmodulin.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) lacks an exon in the coding region, compared to variant 1. The encoded isoform (2) is shorter, compared to isoform 1.