

## Product datasheet for MR226481

### Phka1 (NM\_173021) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Phka1 (NM_173021) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Phka1
Synonyms:	5330411D17; 9830108K24Rik; Phka
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR226481 representing NM_173021 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGGAGCCGCAGTAACTCGGGAGTCCGCCTGGACGGCTATGCTCGGCTGGTGCATCAGACCATCCTGT  
GCCATCAGAATCCAGTGACAGGCTTGCTCCAGCCAGCTATGATCAAAAAGATGCCTGGGTCGAGATAA  
TGTGTACAGTATCCTGGCTGTGTGGGTTTGGGCCTGGCATATCGCAAAAATGCTGACCGTGATGAGGAC  
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GACAGGTGGATAAAGTAGAGTCCTCAAGTACAGTCAGAGTAAAGATAGCCTCCATGCCAAGTACAA  
CACAAAACCTTGTGCCACTGTGGTGGGTGATGACCAAGTGGGACACCTGCAGTTGGATGCTACTTCTGTG  
TACCTGCTCTTCCAGCATAAAGTACTGCTCAGGACTCCATATCATCCACAGCCTAGACGAAGTCAATT  
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CGATAAGACAAACCAAGGCATCTCGAATTGAATGCGAGTTCAGTTGGAATGGCCAAGGCAGCCCTGGAA  
GCACTAGATGAATTAGACTTGTGGTGTGAAAGTGGGCCACAATCAGTTATCCATGTCCTGGCTGATG  
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AGAATGAAACTCAGTGGACGACCCTACAGGCTCATGGGTGTGCTTGAACATCAAACTTTATGACATTC  
 GCAAACTATCTTTACTTTCACTCCACAGTTTATAGACCAGCAACAGTTCTACCTGGCTCTGGACAACCA  
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 TTCCTTCAAGAACAGAAAACCTCGGCGCAGATGATACCATGTTGGCAAAGGATCCTGCATCTGGCATCT  
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 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR226481 representing NM\_173021  
 Red=Cloning site Green=Tags(s)

MRSRSNSGVRLDGYARLVHQTILCHQNPVTGLLPASYDQKDAWVRDNVYSILAVWGLGLAYRKNADRDED  
 KAKAYELEQSVVKLMRGLLHCMIRQVDKVESFKYSQSTKDSLHAKYNTKTCATVVGDDQWGHQLDQTSV  
 YLLFLAQMNTASGLHIIHSLDEVNFIQNLVFYIEAAYKTADFGIWERGDKTNQGISLNASSVGMKAAL  
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 YREALDAVLIKGKNGVPLLPELVSVPDRVDEEQNPHTVDRVPMGKLPHMWQSLYILGSLMAEGFLAP  
 GEIDPLNRRFSTVPKPDVVVQVSI LAETEEIKAILKDKGIDVETIAEVYPIRVQPARILSHIYSSLGCNS  
 RMKLSGRPYRLMGVLGTSKLYDIRKTIFFTPQFIDQQQFYALDQNMIVEMLRDLSYLCRWRMTGQP  
 TITFPISHTLDEDTSLNSSILAALRKMQDGYFGGARIQTGKLEFLTTSCTHL SFMDPGPEGKLYSE  
 DYDEDYEDDLDSGNWMSYDSTSNVHMYLPTKLFQPSRPSLNLDSPEPQDSQVPSVHVEVHLPRDQS  
 GEVDFQSLVSQLKETSSLQEADILYMLYSMKGPDWNTLEYEGGATVRELLSELVYKVG EIRHWGLIRY  
 ISGILRKKVEALDEACTDLLSYQKHLTVGLPPEPREKTI SAPLPYEALTKLIDEASEGDMSTLTQEI  
 VYLAMYMRTQPGLFAEMFRLRIGLI IQVMATELAHSLRCSAEAEATEGLMNLSPSAMKNLHHILSGKEFG  
 VERSVRPTDSNVSPAISIEIGAVGATKTERTGIMQLKSEIKQVEFRRLSVSMESQTSGGHPSGVDLMSP  
 SFLSPAACIAASSGSFPTVCDHQT SKDSRQGWQRRLD GALNRVPIGFYQKVKWIKLQKCHGLSVEGFV  
 LPSSTTREMTPGEIKFSVHVESVLRNRPQPEYRQLLVEAILVLTMLADIEIHSIGSIIAIVEKIVHIANDL  
 FLQEQTGLGADDTMLAKDPASGICTLLYDSAPSGRFGTMTYL SKAATYVQEFPLPHSLCAMQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9046\\_g09.zip](https://cdn.origene.com/chromatograms/mm9046_g09.zip)

**Restriction Sites:** SgfI-MluI

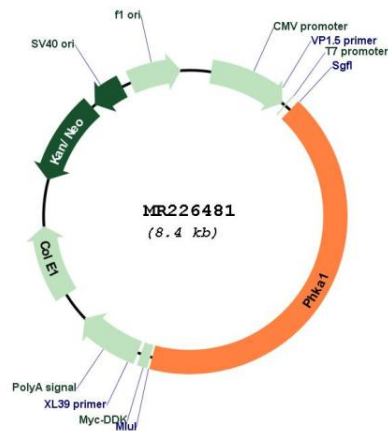
**Cloning Scheme:**



**ACCN:** NM\_173021

**ORF Size:** 3546 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_173021.3, NP_766609.2</u>
<b>RefSeq Size:</b>	5938 bp
<b>RefSeq ORF:</b>	3549 bp
<b>Locus ID:</b>	18679
<b>Cytogenetics:</b>	X 45.47 cM
<b>MW:</b>	132.8 kDa
<b>Gene Summary:</b>	Phosphorylase b kinase catalyzes the phosphorylation of serine in certain substrates, including troponin I. The alpha chain may bind calmodulin.[UniProtKB/Swiss-Prot Function]

**Product images:**


Circular map for MR226481