

Product datasheet for MR211836

Phka2 (NM_001177879) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phka2 (NM_001177879) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Phka2
Synonyms:	6330505C01Rik; D330034O08; Phk
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR211836 representing NM_001177879 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGGAGCAGGAGCAATTCTGGGGTCCGCTGGACGGGTACGCGAGGCTGGTGCAGCAAACCATCCTGT
GTTACCAGAACCCAGTCACTGGGCTGTTATCAGCCAGCCATGACCAGAAGGATGCCTGGGTACGGGACAA
TATCTATAGCATATTGGCTGTTGGGGCTGGGCATGGCCTACCGCAAGAATGCTGACCGTGATGAGGAT
AAAGCCAAGGCCATGAGTTGGAACAGAACGTAGTGAAGCTGATGCGAGGTCTTCTCCAGTGTATGATGA
GGCAGGTGGACAAAGTGGAGAAGTCAAGCACACTCAGAGTACCAAGGACAGTCTACATGCCAAGTACAA
CACTGCCACATGTAGCACTGTGGTGGGTGATGACCAGTGGGGCCACCTCCAGGTGGATGCCACCTCTCTC
TTCTCTCTGTTCTGGCCAGATGACAGCCTCAGGTTTGCATATTATTTTACCCTTGACGAAGTGGCCT
TCATACAGAATCTTGCTTCTACATAGAAGCTGCATATAAAGTTGCTGATTATGGGATGTGGGAGCGTGG
AGATAAAACCAATCAGGGCATTCCGGAAGTGAATGCAAGCTCGGTGGGAGTGGCCAAGGCAGCACTTGAG
GCCATTGATGAAGTAGATCTTTTGGAGCCATGGAGGACGCAATCGGTGATCCACGTCCTACCTGATG
AAGTTGAGCACTGCCAGTCAATCTTTTCTCCATGTTGCCAAGAGCATCAACATCTAAAGAAATCGATGC
TGGACTCTTTCTATTATTTCTTTCCCGCCTTTCAGTAGAAGATGTGAACCTTGTGAATGTGACCAAA
AATGAAATTTTCCAAGCTTCAGGGGCGGTATGGATGCTGCTCGCTTCCCTCGAGATGGCTATAAAACCC
CAAGAGAGGATCCACACCGATTGCATTATGACCCTGCCGAAGTAAAGCTCTTTGAAAACATTGAATGTGA
ATGGCCTGTGTTCTGGACTTATTTAATCATAGATGGAATCTTCAATGGTATGCTGTTCCAGTCCAGAA
TACCGAGAAGCCTTGGAGGGAATATTAATCAGAGGCAAAGATGGGATCCACTTGGTCCAGAACTCTATG
CCATCCCACCAGACAAGGTGGATGAAGAGTATAAAGATCCACACACAGTAGACCGAGTCCACTGGGAAA
GCTGCCCCATCTTTGGGACAGTCTTGTACATCCTCAGCTCACTGCTAGCAGAGGGATTCTTGCCACG
GGTGAATCGATCCCTTAAATAGAAGATTTTCTACTTCAGTCAAACCTGATGTTGTAGTGAAGTTGCTG
TTTTGGCAGAAAACAGTACATTAAGGGCTGTTGAAGGAGCATGGAATGACTGTCCAGAGCATTGCTGA
TGTGCATCCGATTCGAGTCCAGCCAGGCCGAATCTTAGTCACATATATGCCAAACTTGGACGAAATAAG



[View online »](#)

AATATGAAATTGAGTGGTCGACCGTATCGGCACATTGGTGTCTTGGCACCTCTAAACTCTATGTGATTA
 GGAATCACATCTTCACTTTTACACCCCAGTTCACTGACCAGCATCACTTCTACCTGGCCCTGGACAATGA
 GATGATTGTGGAGATGCTGAGGATCGAACTTGCCTATCTGTGCACCTGCTGGCGGATGACCGGCCGACCC
 ACTCTCACCTTCCTGTACGCATACCATGCTCACAATGATGGATCAGACATTCATCCTGCAGTTCTTT
 CTACAATTAGAAAAGTGAAGATGGCTATTTTGGAGGTGCTAGAGTAAAAGTGGAAATCTGGCAGAGTT
 CCTTACTACCTCATTCTACACACACCTGACCTTCTGGATCCAGACTGCGATGAGAAGTTGTTTGGTGAC
 ATCACTGATAGGAGCTTTAGTCTGACAGTGGCCAGACCTGGGAGGATACCTGGAAAGCAGCAGCTCCTC
 AAGAAAGCCAAGATGAACTTGACCAGTATATCAGCCACCTTCTTCAAAGCACATCCTTGAAGTGTACCT
 GCCCCTCTTTGTAAGAAGTCAGAAGACAGCCATTTTTTTCAGTGCTATTCACTCCACTCGGGACATACTT
 TCTGTGATGGCCAAAGCGAAGGGTTTGGAAACTACATTTTTTCCCATGATTTTGGCCAACTAAAGTCTAA
 GTGGACACCGTAAGTCACTGAATCTTGTGACTCCCTCAGCCACTCCTAAAGACGACTCCTGAATATGA
 CTACCAGTGGCCAGAGACGACCATGATGAAGTGGACTGTGAGAAGCTAGTTGGGCAACTGAAAGACTGC
 TCAAACCTACAGGACCAAGCAGACATTCGTACATTCTTATGTAATGAAGGGTCCCGCTGGGATACCA
 ATTTGTTTGGGCAGCATGGAGTCACTGTTACAGTCTTCTCAGCGAGCTCTATGGAAAAGCTGGCCTAAA
 CCAAGAATGGAGTTTGATTTCGTACATTTTCAGGCTGCTCAGGAAGAAAGTGGAGTCTGGCTGAGGCC
 TGTGCAGATCTGCTGTCCACCAGAAGCAGCTTACAGTAGGACTGCCCTGAGCCCCGGGAGAAGACCA
 TATCTACGCCCTACCCCCAGAGGAGCTCACAGAACTCATATATGAAGCCAGTGGACAGGACATCAGCAT
 TGCTGTCTCACACAGGAGATCGTGGTTTACCTGGCCATGTATGTCCGGGCCAGCCTAGCCTCTTTGCA
 GAGATGCTCAGACTCCGATTGGATTGATCCTCCAGGTGATGGCCACAGAGCTGGCTCGGAGCCTGAACT
 GCTCAGGAAAAGAAGCTTCGGAGAGCTTGATGAACCTCAGCCCTTTCGACATGAAGAGCCTTCTGCATCA
 TATCCTGAGTGGGAAGGAGTTCGGTGTGGAGAGAAGCGTGGCCCAATACACTCCTCCATGTCCAGCCCT
 GCCATCTCCATCCATGAGGTGGTCACTGGAGCCACCAAACTGAGCGGAGTGGCATCACCAGACTGA
 GGAGTGAGATGAAACAGATGAATAGGCGAGCTAGTGTGATGAGCAGTTCTTTCTTTGGCCAGACCAT
 GTCCAACAGTTTGCATTCCATCAAGTCTGTGAGGTCCAGCACCCATCCTCCCGACAGGCACATCATCT
 ACAGACTCTGGAGGACAGCACCTGGGCTGGGGAGAACAGCAGGGCCAGTGGCTGCGCCGGAGAAGTTGG
 ATGGGGCCATTAAACAGGGTCCCGTGGGATTCTACCAGAAAGTGTGGAAGATCCTTCAGAAGTGCCATGG
 CCTGTCCATCGATGGTTACGTCTCCCATCCTCGACAACCAAGAGATGACCCCTTGTGAGATCAAGTTT
 GCCGTCCATGTGGAGTCACTGCTCAACCGTGTGCCAGCCTGAGTATCGGCAGCTACTGGTAGAAGCCA
 TCATGGTACTGACTCTGCTCTCAGATACCGAAATGGACAGTATCGGGGGCATCATCCATGTGGACCAGAT
 AGTGCAGCTGGCCATCAGCTGTTCTGCAGGACCAGGTGTCATTTGGAACACAGACATCCTGGAAAAA
 GACCAAGCCACAGGAATTTGCCACCTCTTTTATGACAGTCTCCTAGTGGGGCTTATGGTACAATGACCT
 ACCTAACAAAAGCGGTGCTTCTCATTTGCAGGAAGTGTGCCAGTTTCAGGCTGCCAGATGCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR211836 representing NM_001177879
 Red=Cloning site Green=Tags(s)

MRSRSNSGVRLDGYARLVQQTILCYQNPVTGLLSASHDQKDAWVRDNIYSILAVWGLGMAYRKNADRDED
 KAKAYELEQNVVLMRGLLQCMMRQVDKVEKFKHTQSTKDSLHAKYNTATCSTVVGDDQWGHLLQVDATSL
 FLLFLAQMTASGLRIIFTLDEVAFIQNLVFYIEAAYKVADYGMWERGDKTNQGIPELNASSVGVAKAALE
 AIDELDLFGAHGGRKSVIHVLPDEVEHCQSILFMSLPRASTSKEIDAGLLSIIISFPFAVEDVNLVNVTK
 NEIISKLQGRYGCCFLRDGYKTPREDPHRLHYDPAELKLFENIECEWPVFWTYLIIDGIFNGDAVQVQE
 YREALEGILIRGKDGIIHLVPELYAIPDPKVDDEEYKNPHTVDRVPLGKPLHLWGQSLYILSSLLAEGFLAT
 GEIDPLNRRFSTSVKPDVVVQAVLAENSHIKGLLKEHGTVQSIADVHPIRVQPGRILSHIYAKLGRNK
 NMKLSGRPYRHIGVLGTSKLYVIRNHIFTTPQFTDQHFFYLALDNEMIVEMLRIELAYLCTCWRMTGRP
 TLTFFPVTHMLTNDGSDIHPAVLSTIRKLEDGYFGGARVKLGNAEFLTTSFYTHLTFLDPCDEKLFGD
 ITDRSFSPDSEPLGGYLEDSSPQESQDELQYISHLLQSTSLKCYLPPLCKKSEDSHFFSAIHSTRDIL
 SVMAKAKGLETTFFPMILPTKVLSGHRKSLNLVDSPPQLLKTTPEDYQWPRDDHDEVDCLEKLVGQLKDC
 SNLQDQADILYILYVMKGPWRDNLFGQHGVTVHSLLELYGKAGLNQEWSLIRYISGLLRKKVEVLAEA
 CADLLSHQKQLTVGLPPEPREKTI STPLPPEELTELIYEASGQDISIAVLTQEI VVYLAMYVRAQPSLFA
 EMLRLRIGLI IQVMATELARSLNCSGKEASELMNLSPFDMKSLHHLISGKEFGVERSVRPIHSSMSSP
 AISIHEVGHGTGATKTERSGITRLRSEMKNRRASADEQFFPLGQTMNSLHSIKSVRSSTPSSPTGTSS
 TDGGGQHLGWGEQQGQWLRRLRDGAINRVPVGFYQKVKWIKLQKCHGLSIDGYVLPSTTQEMTPCEIKF
 AVHVESVLNRVSQPEYRQLLVEAIMVL TLLSDTEMDSIGGI IHVDQIVQLANQLFLQDQVFSFGTTDILEK
 DQATGICHLFYDSAPSGAYGTMTYLTKAVASHLQELLPSGGCQMQ

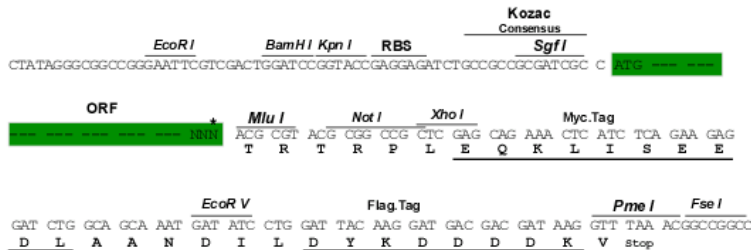
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfi-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



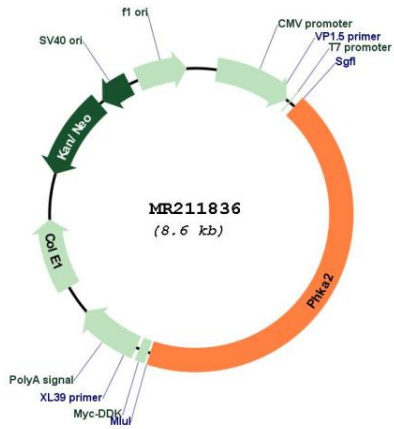
* The last codon before the Stop codon of the ORF

ACCN: NM_001177879

ORF Size: 3705 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_001177879.2
RefSeq Size:	4528 bp
RefSeq ORF:	3708 bp
Locus ID:	110094
UniProt ID:	Q8BWJ3
Cytogenetics:	X 73.95 cM
MW:	138.5 kDa
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]

Product images:



Circular map for MR211836