

Product datasheet for **MG211836**

Phka2 (NM_172783) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Phka2 (NM_172783) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Phka2
Synonyms: 6330505C01Rik; D330034O08; Phk
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG211836 representing NM_172783
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCTTGGGCGAGATGCGGAGCAGGAGCAATTCTGGGGTCCGCTGGACGGGTACGCGAGGCTGGTGC
AGCAAACCATCCTGTGTTACCAGAACCCAGTCACTGGGCTGTTATCAGCCAGCCATGACCAGAAGGATGC
CTGGGTACGGGACAATATCTATAGCATATTGGCTGTTTGGGGCTGGGCATGGCTACCGCAAGAATGCT
GACCGTGATGAGGATAAAGCCAAGGCCTATGAGTTGGAACAGAACGTAGTGAAGCTGATGCGAGGTCTTC
TCCAGTGTATGATGAGGCAGGTGGACAAAGTGGAGAAGTTCAAGCACACTCAGAGTACCAAGGACAGTCT
ACATGCCAAGTACAACACTGCCACATGTAGCACTGTGGTGGGTGATGACCAGTGGGGCCACTCCAGGTG
GATGCCACCTCTCTTCTCCTCTGTTTCTGGCCAGATGACAGCCTCAGGTTTGGCTATTATTTTTACCC
TTGACGAAGTGGCCTTACACAGAATCTTGCTTCTACATAGAAGCTGCATATAAAGTTGCTGATTATGG
GATGTGGGAGCGTGGAGATAAAACCAATCAGGGCATTCCGGAAGTGAATGCAAGCTCGGTGGGAGTGGCC
AAGGCAGCACTTGAGGCCATTGATGAACTAGATCTTTTGGAGCCCATGGAGGACGCAAAATCGGTGATCC
ACGTCTACCTGATGAAGTTGAGCACTGCCAGTCAATTCTTTTCCATGTTGCCAAGAGCATCAACATC
TAAAGAAATCGATGCTGGACTTCTTTCTATTATTTCTTTCCCGCCTTTGCAGTAGAAGATGTGAACCTT
GTGAATGTGACCAAAAATGAAATTATTTCCAAGCTTCAGGGCGGTATGGATGCTGCTCGCTTCTTCGAG
ATGGCTATAAAACCCCAAGAGAGGATCCACACCGATTGCATTATGACCCTGCCAACTTAAGCTCTTTGA
AAACATTGAATGTGAATGGCCTGTGTTCTGGACTTATTTAATCATTAGATGGAATCTTCAATGGTGTGCT
GTTCAGGTCCAAGAATACCGAGAAGCCTTGAGGGGAATATTAATCAGAGGCAAAGATGGGATCCACTTGG
TGCCAGAACTCTATGCCATCCCACCAGACAAGGTGGATGAAGAGTATAAGAATCCACACACAGTAGACCG
AGTTCCTGCGGAAAGCTGCCCATCTTTGGGACAGTCTTGTACATCCTCAGTCACTGCTAGCAGAG
GGATTCTTGGCACGGGTGAAATCGATCCCTTAAATAGAAGATTTCTACTTCAGTCAAACCTGATGTTG
TAGTGCAAGTTGCTGTTTTGGCAGAAAACAGTCACATTAAGGGGCTGTTGAAGGAGCATGGAATGACTGT
CCAGAGCATTGCTGATGTGCATCCGATTCGAGTCCAGCCAGGCCGAATTCTTAGTCACATATATGCCAAA



[View online >](#)

CTTGACGAAATAAGAATATGAAATTGAGTGGTCGACCGTATCGGCACATTGGTGTCTTGGCACCTCTA
AACTCTATGTGATTAGGAATCACATCTTCACTTTTACACCCAGTTCACTGACCAGCATCACTTCTACCT
GGCCCTGGACAATGAGATGATTGTGGAGATGCTGAGGATCGAACTTGCCTATCTGTGCACCTGCTGGCGG
ATGACCGGCCGACCCACTCTCACCTCCCTGTACGCATACCATGCTCACAATGATGGATCAGACATTC
ATCCTGCAGTTCTTTCTACAATTAGAAAAGTAAAGATGGCTATTTTGGAGGTGCTAGAGTAAAAGTAAAG
AAATCTGGCAGAGTTCCTTACTACCTCATTCTACACACACCTGACCTTCTGGATCCAGATCCGATGAG
AAGTTGTTTGGTGACATCACTGATAGGAGCTTTAGTCTGACAGTGAGCCAGACCTGGGAGGATACCTGG
AAGACAGCAGTCCCTCAAGAAAAGCCAAGATGAACTTGACCAGTATATCAGCCACCTTCTTCAAAGCACATC
CTTGAAGTGTTACCTGCCCTCTTTGTAAAGTGAAGACAGCCATTTTTTTCAGTGCTATTTCACTCC
ACTCGGGACATACTTTCTGTGATGGCCAAAGCGAAGGTTTGGAACTACATTTTTTCCCATGATTTTGC
CAACTAAAGTTCTAAGTGGACACCGTAAGTCACTGAATCTTGTGACTCCCCTCAGCCACTCCTAAAGAC
GACTCCTGAATATGACTACCAAGTGGCCAGAGACGACCATGATGAAGTGGACTGTGAGAAGCTAGTTGGG
CAACTGAAAGACTGCTCAAACCTACAGGACCAAGCAGACATTCTGTACATTTTATGTAATGAAGGGTC
CCCCTGGGATACCAATTTGTTTGGGCAGCATGGAGTCACTGTTACAGTCTTCTCAGCGAGCTCTATGG
AAAAGCTGGCCTAAACCAAGAATGGAGTTTGTTCGCTACATTTTCAAGCCTGCTCAGGAAGAAAGTGGAG
GTCCTGGCTGAGGCTGTGCAGATCTGCTGTCCCACCAGAAGCAGCTTACAGTAGGACTGCCCTGAGC
CCCGGGAGAAGACCATATCTACGCCTCTACCCAGAGGAGCTCACAGAACTCATATATGAAGCCAGTGG
ACAGGACATCAGCATTGCTGTCTCACACAGGAGATCGTGGTTTACCTGGCCATGTATGTCGGGGCCAG
CCTAGCCTCTTTGCAGAGATGCTCAGACTCCGGATTGGATTGATCATCCAGGTGATGGCCACAGAGCTGG
CTCGGAGCCTGAACTGCTCAGGAAAAGAAGCTTCGGAGAGCTTGATGAACCTCAGCCCTTTCGACATGAA
GAGCCTTCTGCATCATATCCTGAGTGGGAAGGAGTTCGGTGTGGAGAGAAGCGTGCGCCCAATACACTCC
TCCATGTCCAGCCCTGCCATCTCCATCCATGAGGTGGTTCATCTGGAGCCACAAAAGTGGAGGAGTG
GCATCACAGACTGAGGAGTGAATGAAACAGATGAATAGGCGAGCTAGTGTGATGAGCAGTTCCTTCC
TTTGGGCCAGACCATGTCCAACAGTTTGCATTCCATCAAGTCTGTGAGGTCCAGCACCCCATCCTCCCCG
ACAGGCACATCATCTACAGACTCTGGAGGACAGCACCTGGGCTGGGGAGAACAGCAGGGCCAGTGGCTGC
GCCGGAGAAGGTTGGATGGGGCCATTAACAGGGTCCCCGTGGGATTCTACCAGAAAGTGTGGAAGATCCT
TCAGAAGTGCCATGGCCTGTCCATCGATGGTTACGTCCTCCATCCTCGACAACCAAGAGATGACCCCT
TGTGAGATCAAGTTTCCCGTCCATGTGGAGTCACTGCTCAACCGTGTGCCAGCCTGAGTATCGGCAGC
TACTGGTAGAAGCCATCATGGTACTGACTCTGCTCTCAGATACCGAAATGGACAGTATCGGGGCATCAT
CCATGTGGACCAGATAGTGCAGCTGGCCAATCAGCTGTTCTGCAGGACCAGGTGCTATTTGGAACCACA
GACATCCTGGAAAAGACCAAGCCACAGGAATTTGCCACCTCTTTATGACAGTGTCTCTAGTGGGGCTT
ATGGTACAATGACCTACCTAACAAAAGCGGTCGCTTCTCATTTGCAGGAAGTGTGCCAGTTCAGGCTG
CCAGATGCAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG211836 representing NM_172783
 Red=Cloning site Green=Tags(s)

```
MSLGEMRSRSNSGVRLDGYARLVQQTILCYQNPVTGLLSASHDQKDAWVRDNIYSILAVWGLGMAYRKNA
DRDEDKAKAYELEQNVVKLMRGLLQCMMRQVDKVEKFKHTQSTKDSLHAKYNTATCSTVVGDDQWGLQV
DATSLFLLFLAQMTASGLRIIFTLDEVAFIQNLVFYIEAAYKVADYGMWERGDKTNQGIPELNASSVGA
KAALEAIDELDLFGAHGGRKSVIHVLPDEVEHCQSILFMSLPRASTSKEIDAGLLSISFPFAVEDVNL
VNVTKNEIISKLGQRYGCCRFRLRDGYKTPREDPHRLHYDPAELKLFENIECEWPVFWTYLIDGIFNGDA
VQVQEYREALEGILIRKGDGIHLVPELYAIPDPKVDDEYKNPHTVDRVPLGKPLHLWGQSLYILSSLLAE
GFLATGEIDPLNRRFSTSVKPDVVVQAVLAENSHIKGLLKEHGTVQSIADVHPIRVQPGRILSHIYAK
LGRNKNMKLSGRPYRHIGVLGTSKLYVIRNHIFTFQPQTDQHFFYLALDNEMIVEMLRIELAYLCTCWR
MTGRPTLTFPVTHMLTNDGSDIHPAVLSTIRKLEDGYFGGARVKLGNAEFLTTSFYTHLTFLDPCDE
KLFGDITDRSFPDSEPDLDGGYLEDSSPQESQDELQYISHLLQSTSLKCYLPPLCKKSEDSHFFSAIHS
TRDILSVMAKAKLETTFFPMILPTKVLSGHRKSLNLDVSPQPLLKTTPEYDQWPRDDHDEVDCLEKLVG
QLKDCSNLQDQADILYILYVMKGPWRDNLFGQHGVTVHSLLELYGKAGLNQEWSLIRYISGLLRKKVE
VLAEACADLLSHQKQLTVGLPPEPREKTI STPLPPEELTELIYEASGQDISIAVL TQEIVVYLAMYVRAQ
PSLFAEMLRLRIGLI IQVMATELARSLNCSGKEASESLMNLSPFDMKSLLHHILSGKEFGVERSVRPIHS
SMSSPAISIEHVHTGATKTERSGITRLRSEMKNRRASADEQFFPLGQTMNSLHSHIKSVRSSTPSSP
TGTSSDSDGGQHLGWGEQQGQWLRRLRDGAINRVPVGFYQKVVKILQKCHGLSIDGYVLPSTTQEMTP
CEIKFAVHVESVLRNRSQPEYRQLLVEAIMVLTLLSDTEMDSIGGIHVDQIVQLANQLFLDQVSVFGTT
DILEKDQATGICHLFYDSAPSGAYGTMTYLTAVASHLQELLPSGGCQMQ
```

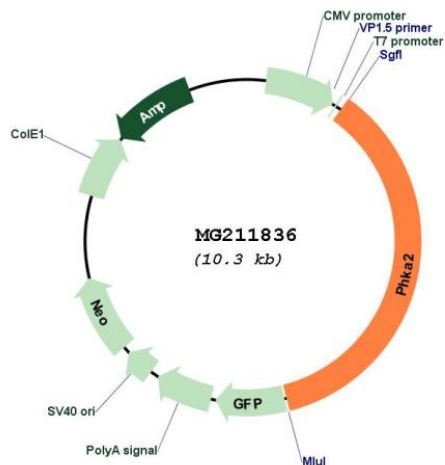
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_172783

ORF Size: 4711 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:

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_172783.1](#)

RefSeq Size: 4459 bp

RefSeq ORF: 3708 bp

Locus ID: 110094

UniProt ID: [Q8BWJ3](#)

Cytogenetics: X 73.95 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]