

Product datasheet for **MR223472**

Pkp1 (NM_019645) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pkp1 (NM_019645) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pkp1
Synonyms:	A1528551
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR223472 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAACCACTCTCCGCTCAAGACCGCGCTGGCGTACGAATGCTTCCAGGACCAGGACAACCTCCACGCTGG
 CTTTGCCCTCTGACCAAAAGATGAAGACCGGCAGTCCGGCAGGCAGCGGTGCAGGAGCAAGTATGAT
 GACCGTCAAACGGCAGAAAGTCCAAGTCTTCCAGTCGTCACCTTGAGTCACTCCAACCGAGGTTCCATG
 TATGATGGGCTGGCTGACAATTACAACAACTACGGCACCACGAGCAGAAGCAGCTACTTCTCCAAGTTCC
 AGGCAGGGAAATGGCTCGTGGGATATCCGATCTACAATGGGACCCTCAAGCGGGAGCCCGACAACAGACG
 CTTAGCTCTATAGCCAGATGGAGAATGGAGCCGCACTATCCCCGAGGCAGCTGTGCCACCCCGGGC
 GCTGGCAGTGACATCTGTTTATGCAGAAAATCAAGGCAAGCCGAGTGAACCTGACCTCTACTGTGACC
 CAAGGGGCACACTGCGCAAGGGCACCTGGGCAGCAAGGGCCACAAGACCACCCAGAACCGATGCAGCTT
 CTACAGCACTTGCAGTGGTCAAGAAGTGTCCCGTGGCGCCCTCTGCACCTCCAAG
 CAAGACCCGGTGTATGTGCCCTATCTCTGCAACAAGGACCTGTCTTCGGCCACTCGAGGGCCAGTT
 CCAAGATCTGCAGTGAAGGACATTGAGTGTAGTGGGCTGACCATCCCCAAGGCTGTGCAGTACCTGTGCTC
 CCAGGATGAGAAGTACCAGGCCATCGGAGCCTATTACATCCAGCACACCTGCTTCCAGGATGAATCTGCC
 AAGCAACAGGTCTATCAGCTGGGGGCACTGCAAGCTGGTGGACCTCTCCGCAGCCCCAATCAGAATG
 TCCAGCAGGCTGCTGCCGGGCGCTGCGCAACCTGGTGTTCAGGAGCACCCCAACAAGCTGGAGACCAG
 GAGGCAGAACGGAATCCGTGAAGCTGTGAGCCTCTGAGGAGAAGCGGGAGCACGGAGATCCAAAAACAG
 CTGACTGGGCTCCTCTGGAACCTGTCTTCACTGATGAGCTGAAGGAGGAGCTGGTGGCCGACGCCCTGC
 CTGTTCTGACTGACCGGGTCACTATTCTTCTGCTGGTGTGATGGTAACAGCAACATGTCCGGGA
 AGTAGTGACCCTGAGGTCTTCTCAATGCTACAGGCTGCTTGAGGAACCTGAGTTCAGCTGATGCTGGC
 CGCCAGACTATGCGGAACTACTCTGGGCTCATTGACTCCCTCATGGCCTATGTCCAGAAGTGCCTGGCTG
 CCAGCCGCTGCGATGACAAGTCTGTGGAGAAGTGCATGTGTATCCTGCATAACCTCTCTACCGCTGGA
 CGCCGAGGTGCCACCCGCTACCGCCAGCTGGAGTACAATACCCGCAATGCCTACACCGAGAAGTCTCC
 ACTGGCTGCTTCCAGCAACAGGGGTGACAAGATGATGAACAATAACTATGACTGCCCACTTCCGGAGGAAG
 AGACCAACCCCAAGGGCAGCAGCTGGCTGTACCACTCAGATGCCATCCGGACCTACCTGAACCTCATGGG
 AAAGAGCAAGAAAGATGCTACCTTGAGGCCTGTGCTGGGGCCCTGCAAAACCTGACAGCCAGCAAGGGG
 CTGATGTCCAATGGTATGAGTCAGTTAATTGGAATAAAGGAAAAGGGCCTGCCACAAATCGCCGCTCTCC
 TGAATCTGGCAATTCGGATGTGGTCCGGTCCGGAGCCTCTCTGCTGAGCAACATGTCTCGCCACCTGT
 GCTGCACAGAGTATGGGAAACCAGGTGTTCCAGAGGTAACCAGACTCCTCACTAGCCACACCGGCAAT
 ACCAGCAACTCTGAAGATATCTTGTCTCAGCCTGCTACACTGTGAGGAACCTGATGACCTCACAGCCTC
 AGATGGCCAAGCAGTACTTCTCCAACAGCATGCTCAACAATGTCTTCAACTTGTGCCGCAACACTGCCTC
 CTCACCTAAGGCTGCAGAGGCTGCCCGCTACTCTGTCTGACATGTGGGCCAGCAAGGAGCTGCAGAGT
 GTCCTCAGGCAGCAAGGTTTCGATAGGAATATGATGGGAAACATAGCTGGGGCCAACAACCTCAGAAACT
 TCACCTCCCGTTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR223472 protein sequence
 Red=Cloning site Green=Tags(s)

MNHSPLKTALAYECFQDQDNSTLALPSDQKMKGTSGRQRVQEQVMMTVKRQKSKSSQSSTLSHSNRGSM
 YDGLADNYNNYGTSSRSSFYKFKQAGNGSWGYPINYLKREPDRRFSSYSQMNWSRHYPRGSCATPG
 AGSDICFMQKIKASRSEPDLYCDPRGTLRKGTLGSKGHKTTQNRCSFYSTCSGQKAVKKCPVRPPSCTSK
 QDPVYVPPISCNKDL SFGHSRASSKICSEDI ECSGLTIPKAVQYLC SQDEKYQAIGAYYIQHTCFQDESA
 KQQVYQLGGICKLVDLLRSPNQNVQAAAGALRNLVFRSTPNKLETRRQNGIREAVSLLRRSGSTEIQKQ
 LTGLLWNL SSTDELKEELVADALPVL TDRVIIPFSGWCDGNSNMSREVVDPVEVFNATGCLRNLSSADAG
 RQTMRNYSGLIDSLMAYVQNCVAASRCDDKSVENCMCILHNL SYRLDAEVPTRYRQLEYNTRNAYTEKSS
 TGCF SNRGDKMMNNYDCPLPEEETNPKGSSWL YHSDAIRTYLNL MGSKKDATLEACAGALQNL TASKG
 LMSNGMSQLIGIKEKGLPQIARLLQSGNSDVVRSGASLLSNMSRHPVLHRVMGNQVFPEVTRLLTSHTGN
 TSNSEDI LSSACYTVRNLMTSQPQMAKQYF SNSMLNNVFNLCRNTASSPKAAEAARLLLSDMWASKELQS
 VLRQQGFDRNMMGNIAGANNLRNFTSRF

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_019645

ORF Size: 2187 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_019645.3](#), [NP_062619.1](#)

RefSeq Size: 4486 bp

RefSeq ORF: 2187 bp

Locus ID: 18772

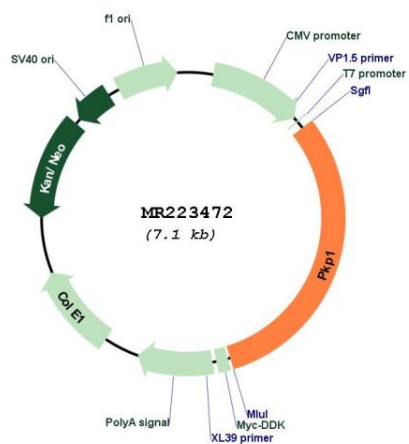
UniProt ID: [P97350](#)

Cytogenetics: 1 E4

MW: 80.9 kDa

Gene Summary: Seems to play a role in junctional plaques.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR223472