

## Product datasheet for **MR207717**

### Minpp1 (NM\_010799) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Minpp1 (NM_010799) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Minpp1
Synonyms:	AA408516
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR207717 representing NM\_010799  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCTTCGCGCGCGCGCAGCCACCTCCGGCCTCGGTAGCGCCCGCGGTCCTGGTGCGGCGCTGC  
 TCTCGTGTTCGCGCGCTGCTCTCTCCCGGGCGCGCGACCCGGTGGCTTCGGTGTCTAGCCCTACTT  
 CGGCACGAAGACACGCTACGAAGATGCCAACCCCTGGCTGCTGGTTCGATCCGGTGGCGCCGCGCGGGAC  
 CCGGAGCTGCTGGCGGGACCTGCACCCCGGTGCAGCTGGTGCCTCATCCGTACGGCACCCCGCTACC  
 CTACGACCAAGCAGATCCGAAGCTGAAGCAGCTGCAGGGGCTGCTGCAGACCCGCGAGTCCCGGGATG  
 CGGGAGCCAAGTGGCGCGCGCTGGCCGAGTGGCCGCTGTGGTACGGTACTGGATGGACGGGCAGCTG  
 GTGGAGAAGGGGCGCAGGACATGCGACAGCTGGCCCTGCGTCTGGTGCCTCTCCAGACCTTTCA  
 GCCGGGAGAACTACGACCGCTGCGGCTGATCACCAGCTCCAAGCACCGTGTGTGGACAGCAGCGCCGC  
 CTTCTCCAGGGTTGTGGCAGCATTACCACCCAGGACTGCCACCTCCGACGTCTCAGATATGGAGTGT  
 GGCCCTCCAAGAATTAATGATAAACTAATGAGGTTCTTCGATCATTGTGAGAAGTCTTAACTGATGTGG  
 AAAGAAACGAGACGGCTCTTTATCATGTGGAAGCTTTCAAACTGGACCAGAAATGCAGAAGTCTTAAA  
 GAAAGTTGCAGCTACTCTGCAAGTGCCAAATGAACAGTTTAAATGCAGACTTAATTCAGGTAGCTTTTTC  
 ACCTGTTCAATTTGACCTGGCAATTAAGGTGTCCATTCTCCCTGGTGTGATGTGTTTACGATAGATGATG  
 CAAGGGTCTGGAATACTTAAACGACCTGAAACAGTACTGGAAACGAAGCTATGGCTACACCATTAACAG  
 CCGGTCCAGCTGCAACCTATTTACAGGACATTTTCTACACCTGGACAAAGCAGTGGAGCAGAAGCAAAGG  
 TCTCAGCCAGTCTCCTCTCCAGTCATCTCCAGTTTGGACACGCGGAGACGCTCCTGCCGCTCCTCTCCC  
 TCATGGGCTACTTCAAGGACAAGGAGCCTCTGACCGCTTACAATTCGAGGAGCAAGTTAATCGCAAGT  
 CCGAAGTGGTCACATCGTACCTTATGCCTCAAACCTAATCTTCGTGCTTTACCACTGTGACAACGCGCAG  
 AGCCCCGAAGAACAATTCAGATACAGCTGCTGCTGAATGAGAAGGTGCTGCCCTGGCTACTCGCAGA  
 GACCCGTCGGGTTGTATGAGGAGCTCAAGACCCACTACCGGGACATTCTTCAGAGCTGCCAAACAGTAA  
 GGAGTGCAGCCCGCCAAAGCGAACATCACGTCCGATGAGCTC

**ACGCGT**ACGCGGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR207717 representing NM\_010799  
 Red=Cloning site Green=Tags(s)

MLRGARSHLPASVAPAAVLAALLSSFARCSLPGRGDPVASVLSFYFGTKTRYEDANPWLLVDPVAPRRD  
 PELLAGTCTPVQLVALIRHGTRYPTTKQIRKLLKQLQLLQTTRESRDGGSQVAAALAEWPLWYGDWMDGQL  
 VEKGRQDMRQLALRLAALFPDLFSRENYDRLRLITSSKHRCVDSAAFLQGLWQHYHPGLPPPVDSDMEC  
 GPPRINDKLMRFFDHCEKFLTDVERNETALYHVEAFKTPPEMQLKVAATLQVPMNSLNADLIQVAFF  
 TCSFDLAIKGVHSPWCDVFDVDDARVLEYLNDLKQYWKRSYGYTINSRSCNLFQDIFLHLDKAVEQKQR  
 SQPVSSPVILQFGHAETLLPLLSLMGYFKDKEPLTAYNFEEQVNRKFRSGHIVPYASNLIFVLYHCDNAQ  
 SPEEQFIQLLLNEKVLPLAHSQRPVGLYEELKTHYRDILQSCQTSKECSPPKANITSDEL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9089\\_b04.zip](https://cdn.origene.com/chromatograms/mm9089_b04.zip)

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_010799

**ORF Size:** 1443 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\\_010799.2](#), [NP\\_034929.1](#)

**RefSeq Size:** 2619 bp

**RefSeq ORF:** 1446 bp

**Locus ID:** 17330

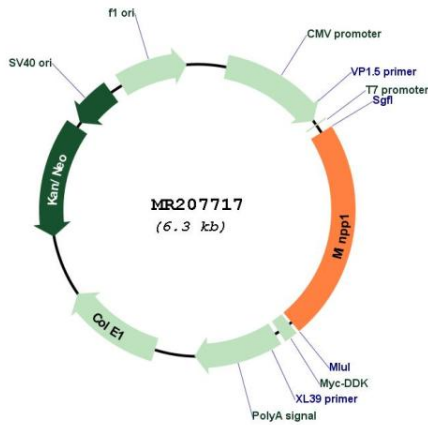
**UniProt ID:** [Q9Z2L6](#)

**Cytogenetics:** 19 27.25 cM

**MW:** 54.5 kDa

**Gene Summary:** Acts as a 2,3-bisphosphoglycerate 3-phosphatase, by mediating the dephosphorylation of 2,3-bisphosphoglycerate (2,3-BPG) to produce phospho-D-glycerate without formation of 3-phosphoglycerate (By similarity). Acts as a phosphoinositide 5- and phosphoinositide 6-phosphatase and regulates cellular levels of inositol pentakisphosphate (InsP5) and inositol hexakisphosphate (InsP6). May play a role in bone development (endochondral ossification). May play a role in the transition of chondrocytes from proliferation to hypertrophy (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR207717