

Product datasheet for **MG207717**

Minpp1 (NM_010799) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Minpp1 (NM_010799) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Minpp1
Synonyms:	AA408516
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207717 representing NM_010799
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTTCGCGCGCGCAGCCACCTCCGGCCTCGGTAGCGCCCGCGGTCCTGGTGCGGCGCTGC
 TCTCGTCTGTCGCGCTGCTCTCTCCCGGGCGCGCGACCCGGTGGCTTCGGTCTCAGCCCCTACTT
 CGGCACGAAGACACGCTACGAAGATGCCAACCCCTGGCTGCTGGTCGATCCGGTGGCGCCGCGGGGAC
 CCGGAGCTGCTGGCGGGACCTGCACCCGGTGCAGCTGGTCGCCCTCATCCGTCACGGCACCCGCTACC
 CTACGACCAAGCAGATCCGCAAGCTGAAGCAGCTGCAGGGGCTGCTGCAGACCCGCGAGTCCCGGGATG
 CGGGAGCCAAGTGGCGCCGCGCTGGCCGAGTGGCCGCTGTGGTACGGTGACTGGATGGACGGGCAGCTG
 GTGGAGAAGGGGCGCAGGACATGCGACAGCTGGCCCTGCGTCTGGTGCCTCTTCCAGACCTTTCA
 GCCGGGAGAACTACGACCGCTGCGGCTGATCACCAGCTCCAAGCACCGTGTGTGGACAGCAGCGCCGC
 CTTCTCCAGGGTTGTGGCAGCATTACCACCCAGGACTGCCACCTCCCGACGTCTCAGATATGGAGTGT
 GGCCCTCCAAGAATTAATGATAAACTAATGAGGTTCTTCGATCATTGTGAGAAGTCTTAACTGATGTGG
 AAAGAAACGAGACGGCTCTTTATCATGTGGAAGCTTTCAAACCTGGACCAGAAATGCAGAAGTCTTAA
 GAAAGTTGCAGCTACTCTGCAAGTGCCAAATGAACAGTTTAAATGCAGACTTAATTCAGGTAGCTTTTTTC
 ACCTGTTCAATTTGACCTGGCAATTAAGGTGTCCATTCTCCCTGGTGTGATGTGTTTACGATAGATGATG
 CAAGGGTCTGGAATACTTAAACGACCTGAAACAGTACTGGAAACGAAGCTATGGCTACACCATTAACAG
 CCGGTCCAGCTGCAACCTATTTACAGACATTTTCTACACCTGGACAAAGCAGTGGAGCAGAAGCAAAGG
 TCTCAGCCAGTCTCCTCTCCAGTCATCTCCAGTTTGGACACGCGGAGACGCTCCTGCCCTCCTCTCCC
 TCATGGGCTACTTCAAGGACAAGGAGCCTCTGACCGCTTACAATTCGAGGAGCAAGTTAATCGCAAGTT
 CCGAAGTGGTCACATCGTACCTTATGCCTCAAACCTAATCTTCGTGCTTTACCACTGTGACAACGCGCAG
 AGCCCCGAAGAACAATTCAGATACAGCTGCTGCTGAATGAGAAGGTGCTGCCCTGGCTACTCGCAGA
 GACCCGTCGGGTTGTATGAGGAGCTCAAGACCCACTACCGGGACATTCTTCAGAGCTGCCAAACAGTAA
 GGAGTGCAGCCCGCCAAAGCGAACATCACGTCCGATGAGCTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG207717 representing NM_010799
 Red=Cloning site Green=Tags(s)

MLRGARSHLPASVAPAAVLAALLSSFARCSLPGRGDPVASVLSFYFGTKTRYEDANPWLVDVPVAPRRD
 PELLAGTCTPVQLVALIRHGTRYPTTKQIRKLLKQLQLLQTTRESRDGGSQVAAALAEWPLWYGDWMDGQL
 VEKGRQDMRQLALRLAALFPDLFSRENYDRLRLITSSKHRCVDSSAFLQGLWQHYPGLPPPVDVSDMEC
 GPPRINDKLMRFFDHCEKFLTDVERNETALYHVEAFKTPGEMQKVLKVAATLQVPMNSLNADLIQVAFV
 TCSFDLAIKGVHSPWCDVFDVDDARVLEYLNDLKQYWKRSYGYTINSRSSCNLFQDIFLHLDKAVEQKQR
 SQPVSSPVILQFGHAETLLPLLSLMGYFKDKEPLTAYNFEEQVNRKFRSGHIVPYASNLIFVLYHCDNAQ
 SPEEQFIQLLLNEKVLPLAHSQRPVGLYEELKTHYRDILQSCQTSKECSPPKANITSDEL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

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

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]