

Product datasheet for **RC207581**

MINPP1 (NM_004897) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | MINPP1 (NM_004897) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | MINPP1 |
| Synonyms: | HIPER1; MINPP2; MIPP |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>RC207581 representing NM_004897
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTACGCGCGCCCGGCTGCCTCCTCCGACCTCCGTAGCGCCTGCCGCGGCCCTGGTGCGGCGCTGC
 TCTCGTCGCTTGGCGCTGCTCTCTTCTAGAGCCGAGGGACCCGGTGGCCTCGTCGCTCAGCCCCTATTT
 CGGCACCAAGACTCGCTACGAGGATGTCAACCCCGTGCTATTGTGCGGGCCCCGAGGCTCCGTGGCGGGAC
 CCTGAGCTGCTGGAGGGGACCTGCACCCCGGTGCAGCTGGTGCCTCATTGCCACGGCACCCGCTACC
 CCACGGTCAAACAGATCCGCAAGCTGAGGCAGCTGCACGGTTGCTGCAGGCCCGCGGGTCCAGGGATGG
 CGGGGCTAGTAGTACCGGCAGCCGACCTGGGTGCAGCGCTGGCCGACTGGCCTTTGTGGTACGCGGAC
 TGGATGGACGGGACGCTAGTAAAAAGGGACGGCAGGATATGCGACAGCTGGCGTGCCTGCTGCCTCGC
 TCTTCCCGGCCCTTTTCCAGCCGTGAGAACTACGGCCGCTGCGGCTCATCACCAGTTCCAAGACCCTG
 CATGGATAGCAGCGCCGCTTCTGCAGGGGCTGTGCAGCACTACCACCCTGGCTTCCCGCCCGGGAC
 GTCGCAGATATGGAGTTTGGACCTCCAACAGTTAATGATAAACTAATGAGATTTTTTGTACTGTGAGA
 AGTTTTTAACTGAAGTAGAAAAAATGCTACAGCTCTTATCACGTGGAAGCCTTCAAACTGGACCAGA
 AATGCAGAACATTTTAAAAAAGTTGCAGCTACTTTGCAAGTGCCAGTAAATGATTTAAATGCAGATTTA
 ATCAAGTAGCCTTTTTACCTGTTCAATTTGACCTGGCAATTAAGGTGTTAAATCTCCTTGGTGTGATG
 TTTTTGACATAGATGATGCAAAGTATTAGAATATTTAAATGATCTGAAACAATATTGAAAAAGAGGATA
 TGGGTACTACTATTAACAGTCGATCCAGCTGCACCTTGTTCAGGATATCTTTCAGCACTGGACAAAACA
 GTTGAACAGAAAACAAAGGTCTCAGCCAATTTCTTCCAGTCATCCTCCAGTTTGGTCATGCAGAGACTC
 TTCTTCCACTGCTTCTCTCATGGGCTACTTCAAAGACAAGGAACCCCTAACAGCTACAATTACAAAA
 ACAAAATGCATCGGAAGTTCCGAAGTGGTCTCATTGTACCTTATGCCTCGAACCTGATATTTGTGCTTAC
 CACTGTGAAAATGCTAAGACTCCTAAAGAACAATTCAGTGCAGATGTTATTAATGAAAAGGTGTTAC
 CTTTGGCTTACTCACAAGAACTGTTTCAATTTATGAAGATCTGAAGAACCCTACAAGGACATCCTTCA
 GAGTTGTCAAACAGTGAAGAATGTGAATTAGCAAGGGCTAACAGTACATCTGATGAACTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC207581 representing NM_004897
 Red=Cloning site Green=Tags(s)

MLRAPGCLLRTSVAPAAALAAALLSSLARCSLLEPRDPVASSLSPYFGTKTRYEDVNPVLLSGPEAPWRD
 PELLEGTCTPVQLVALIRHGTRYPTVKQIRKLRQLHGLLQARGSRDGGASSTGSRDLGAALADWPLWYAD
 WMDGQLVEKGRQDMRQLALRLASLFPALFSRENYGRLRLITSSKHRCMDSSAAFLQGLWQHYHPGLPPPD
 VADMEFGPPTVNDKLMRFFDHCEKFLTEVEKNATALYHVEAFKTPQMNIKKVAATLQVPVNDLNADL
 IQVAFFTCSDLAIKGVKSPWCDVFDIDDAKVLEYLNDLKQYWKRGYGYTINSRSCTLFQDIFQHLDKA
 VEQKQRSQPISSPVILQFGHAETLLPLLSLMGYFKDKEPLTAYNYKQMRKFRSGLIVPYASNLIIFVLY
 HCENAKTPKEQFRVQMLLNEKVLPLAYSQETVSFYEDLKNHYKDILQSCQTSEECELARANSTSDLE

TRTRPLEQK**L**ISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6269_d11.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_004897

ORF Size: 1461 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_004897.2](#), [NP_004888.2](#)
RefSeq Size: 2412 bp

RefSeq ORF: 1464 bp

Locus ID: 9562

UniProt ID: [Q9UNW1](#)
Cytogenetics: 10q23.2

Domains: acid_phosphat

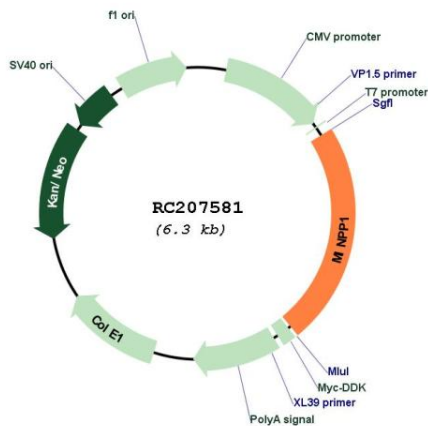
Protein Families: Druggable Genome

Protein Pathways: Inositol phosphate metabolism

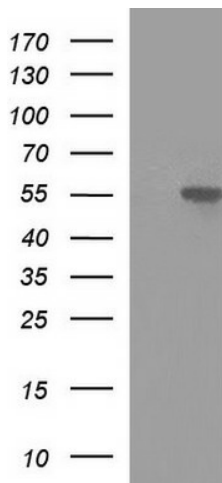
MW: 54.9 kDa

Gene Summary: This gene encodes multiple inositol polyphosphate phosphatase; an enzyme that removes 3-phosphate from inositol phosphate substrates. It is the only enzyme known to hydrolyze inositol pentakisphosphate and inositol hexakisphosphate. This enzyme also converts 2,3 bisphosphoglycerate (2,3-BPG) to 2-phosphoglycerate; an activity formerly thought to be exclusive to 2,3-BPG synthase/2-phosphatase (BPGM) in the Rapoport-Luebering shunt of the glycolytic pathway.[provided by RefSeq, Sep 2009]

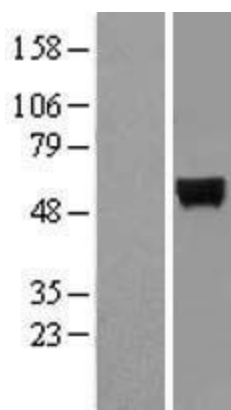
Product images:



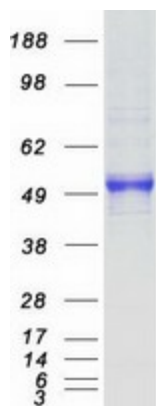
Circular map for RC207581



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MINPP1 (Cat# RC207581, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-MINPP1(Cat# [TA507234]). Positive lysates [LY417667] (100ug) and [LC417667] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY417667]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207581 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MINPP1 protein (Cat# [TP307581]). The protein was produced from HEK293T cells transfected with MINPP1 cDNA clone (Cat# RC207581) using MegaTran 2.0 (Cat# [TT210002]).