

Product datasheet for RC229866

MINPP1 (NM_001178117) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MINPP1 (NM_001178117) 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)
ORF Nucleotide Sequence:	>RC229866 representing NM_001178117 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTACGCGCGCCGGCTGCCTCCTCCGGACCTCCGTAGCGCCTGCCGCGGCCCTGGCTGCGGCGCTGC
TCTCGTCGCTTGC GCGCTGCTCTTCTAGAGCCGAGGGACCCGGTGGCCTCGTCGCTCAGCCCCTATTT
CGGCACCAAGACTCGCTACGAGGATGTCAACCCCGTGCTATTGTCGGGCCCGAGGCTCCGTGGCGGGAC
CCTGAGCTGCTGGAGGGACCTGCACCCCGGTGCAGCTGGTCGCCCTCATTGCCACGGCACCCGCTACC
CCACGGTCAAACAGATCCGCAAGCTGAGGCAGCTGCACGGTTGCTGCAGGCCCGCGGGTCCAGGGATGG
CGGGGCTAGTAGTACCGGCAGCCGCGACCTGGGTGCAGCGCTGGCCGACTGGCCTTTGTGGTACCGGGAC
TGGATGGACGGGCAGCTAGTAGAGAAGGGACGGCAGGATATGCGACAGCTGGCGCTGCGTCTGGCCTCGC
TCTTCCGGCCCTTTTCAGCCGTGAGAACTACGGCCGCTGCGGCTCATCACCAGTTCCAAGCACCGCTG
CATGGATAGCAGCGCCGCTTCTGCAGGGGCTGTGGCAGCACTACCACCTGGCTTGGCCGCCCGGGAC
GTCGCAGATATGGAGTTTGGACCTCAAACAGTTAATGATAAACTAATGAGATTTTTTATCACTGTGAGA
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AATGCAGAACATTTTAAAAAAGTTGCAGCTACTTTGCAAGTGCCAGTAAATGATTTAAATGCAGGTCTC
AGCCAATTTCTTCCAGTCATCCTCCAGTTTGGTCATGCAGAGACTCTTCTTCCACTGCTTCTCTCAT
GGGCTACTTCAAAGACAAGGAACCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC229866 representing NM_001178117
 Red=Cloning site Green=Tags(s)

```
MLRAPGCLLRTSVAPAAALAAALLSSLARCSLLEPRDPVASSLSPYFGTKTRYEDVNPVLLSGPEAPWRD
PELLEGTCTPVQLVALIRHGTRYPTVKQIRKLRQLHGLLQARGSRDGGASSTGSRDLGAALADWPLWYAD
WMDGQLVEKGRQDMRQLALRLASLFPALFSRENYGRLRLITSSKHRCMDSSAAFLOGLWQHYHPGLPPPD
VADMEFGPPTVNDKLMRFFDHCEKFLTEVEKNATALYHVEAFKTPGPEMNILKKVAATLQVPVNDLNAGL
SQFLLQSSSLVMQRLFFHCFLSWATSKTRNP
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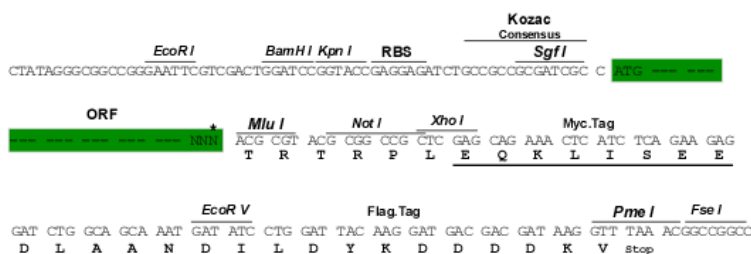
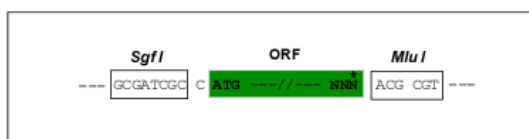
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8051_b08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_001178117

ORF Size: 936 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_001178117.1](#), [NP_001171588.1](#)

RefSeq ORF: 939 bp

Locus ID: 9562

UniProt ID: [Q9UNW1](#)

Cytogenetics: 10q23.2

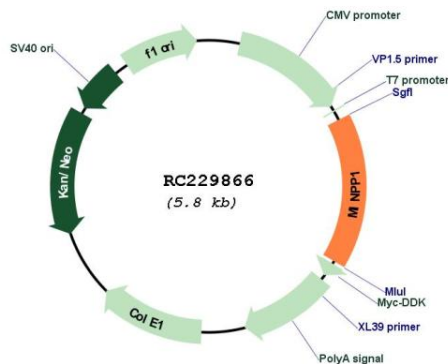
Protein Families: Druggable Genome

Protein Pathways: Inositol phosphate metabolism

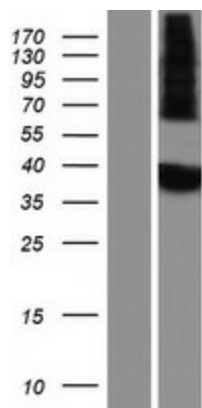
MW: 35.1 kDa

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]

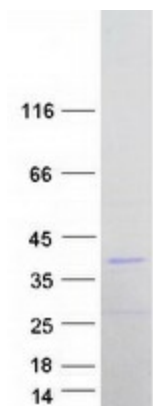
Product images:



Circular map for RC229866



Western blot validation of overexpression lysate (Cat# [LY432866]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC229866 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MINPP1 protein (Cat# [TP329866]). The protein was produced from HEK293T cells transfected with MINPP1 cDNA clone (Cat# RC229866) using MegaTran 2.0 (Cat# [TT210002]).