

## Product datasheet for **RG229832**

### MINPP1 (NM\_001178118) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MINPP1 (NM_001178118) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MINPP1
Synonyms:	HIPER1; MINPP2; MIPP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG229832 representing NM_001178118 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTGCTTATTTTCAGCTGTGCGGATTAGTAAGATATATGGAGTTTGGACCTCCAACAGTTAATGATAAAC  
TAATGAGATTTTTGATCACTGTGAGAAGTTTTAACTGAAGTAGAAAAAATGCTACAGCTCTTTATCA  
CGTGGAAGCCTTCAAACCTGGACCAGAAATGCAGAACATTTAAAAAAGTTGCAGCTACTTTGCAAGTG  
CCAGTAAATGATTTAAATGCAGATTTAATCAAGTAGCCTTTTTACCTGTTTATTGACCTGGCAATTA  
AAGGTGTTAAATCTCCTTGGTGTGATGTTTTGACATAGATGATGCAAAGGTATTAGAATATTTAAATGA  
TCTGAAACAATATTGGAAAAGAGGATATGGGTATACTATTAACAGTCGATCCAGCTGCACCTTGTTTCAG  
GATATCTTTTCAGCACTTGACAAAAGCAGTTGAACAGAAAACAAAGGTCTCAGCCAATTTCTTCCAGTCA  
TCCTCCAGTTTGGTCATGCAGAGACTCTTCTTCCACTGCTTTCTCTCATGGGCTACTTCAAAGACAAGGA  
ACCCCTAACAGCGTACAATTACAAAAACAAATGCATCGGAAGTCCGAAGTGGTCTCATTGTACCTTAT  
GCCTCGAACCTGATATTTGTGCTTTACCACTGTGAAAATGCTAAGACTCCTAAAGAACAATTCGAGTGC  
AGATGTTATTAATGAAAAGGTGTTACCTTTGGCTTACTACAAGAACTGTTTCATTTTATGAAGATCT  
GAAGAACCCTACAAGGACATCCTTCAGAGTTGTCAAACCACTGAAGAATGTGAATTAGCAAGGGCTAAC  
AGTACATCTGATGAACTA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG229832 representing NM\_001178118  
Red=Cloning site Green=Tags(s)

MCLFQLCGLVRYMEFGPPTVNDKLMRFFDHCEKFLTEVEKNATALYHVEAFKTPGEMQNILKKVAATLQV  
 PVNDLNADLIQVAFFTCDFDLAIKGVKSPWCDVFDIDDAKVLEYLNDLKQYWKRGYGYTINSRSSCTLFQ  
 DIFQHLDKAVEQKQRSQPISSPILQFGHAETLLPLL SLMGYFKDKEPLTAYNYKKQMRKFRSGLIVPY  
 ASNLIFVLYHCENAKTPKEQFRVQMLLNEKVLPLAYSQETVSVFYEDLKNHYKDILQSCQTSEECELARAN  
 STSDEL

TRTRPLE - GFP Tag - V

**Restriction Sites:**

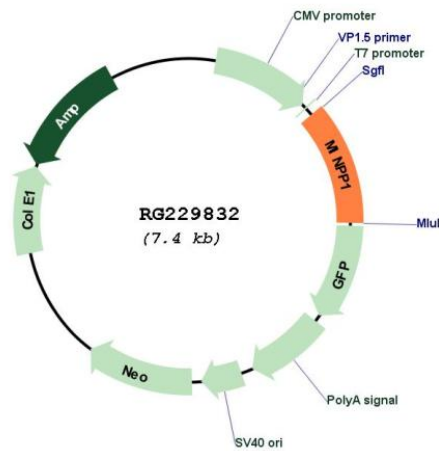
SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_001178118

**ORF Size:** 858 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001178118.1</a> , <a href="#">NP_001171589.1</a>
<b>RefSeq Size:</b>	2225 bp
<b>RefSeq ORF:</b>	861 bp
<b>Locus ID:</b>	9562
<b>UniProt ID:</b>	<a href="#">Q9UNW1</a>
<b>Cytogenetics:</b>	10q23.2
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Inositol phosphate metabolism
<b>Gene Summary:</b>	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]