

## Product datasheet for **RG218843**

### **NIPP1 (PPP1R8) (NM\_014110) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NIPP1 (PPP1R8) (NM_014110) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NIPP1
Synonyms:	ARD-1; ARD1; NIPP-1; NIPP1; PRO2047
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG218843 representing NM_014110 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGCAGCCGCGAACTCCGGCTCTAGCCTCCCGCTGTTGCGACTGCCAACCTGGGCAGGTAAGCCCC  
CTCCCGGTTTACATCTGGATGTAGTCAAAGGAGACAACTAATTGAGAACTGATTATTGATGAGAAGAA  
GTATTACTTATTTGGGAGAAACCCTGATTTGTGTGACTTTACCATTGACCACCAGTCTTGCTCTCGGGTC  
CATGCTGCACTTGTCTACCACAAGCATCTGAAGAGAGTTTTCTGATAGATCTCAACAGTACACACGGCA  
CTTTCTTGGGTACATTCGGTTGGAACCTCACAAGCCTCAGCAAATTCATCGATTCCACGGTCTCATT  
TGGCGCATCCACAAGGGCATACTCTGCGCGAGAAGCCTCAGACATTGCCATCGGCTGTGAAAGGAGAT  
GAGAAGATGGGTGGAGAGGATGATGAACTCAAGGGCTTACTGGGGCTTCCAGAGGAGGAAACTGAGCTTG  
ATAACCTGACAGAGTTTCACTGCCCACAACAAGCGGATTTCTACCTTACCATTGAGGAGGAAATCT  
GGACATTCAAAGACCAAAGAGGAAGAGGAAGAACTCACGGGTGACATTCACTGAGGATGATGAGATCATC  
AACCCAGAGGATGTGGATCCCTCAGTTGGTCGATTGAGGAACATGGTGCAAACCTGCACTGGTCCCAGTCA  
AGAAGAAGCGTGTGGAGGGCCCTGGCTCCCTGGGCTGGAGGAATCAGGGAGCAGGCGCATGCAGAACTT  
TGCCCTTACGGGAGGACTCTACGGGGCCCTGCCCCACACACAGTGAAGCAGGCTCCAGCCACATGCC  
ATCCATGGGACAGCACTCATCGGTGGCTTGCCCATGCCATACCCAAACCTTGCCCTGATGTGGACTTGA  
CTCCTGTTGTGCGTCAGCAGTGAACATGAACCTGCACCAAACCTGCAGTCTATAACCTGAAGCTGT  
AAATGAACCCAAGAAGAAGAAATATGCAAAGAGGCTTGCCAGGCAAGAAGCCACACCTTCTTGCTG  
ATT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG218843 representing NM\_014110  
 Red=Cloning site Green=Tags(s)

MAAAANS GSS LPL FDCPTWAGKPPPGLHLDVVKGDKLIIEKLIIDEKYYLFG RNPDLCDFTIDHQSCSRV  
 HAALVYHKHLKRVFLIDLNSTHGTF LGHIRLEPHKPQQIPIDSTVSFGASTRAYTLREKQTLPSAVKGD  
 EKMGGEDDELKGLLGLPEEETELDNLTEFITAHNKRI STL TIEEGLNDIQRPKRKRKNSRVTFSEDEII  
 NPEDVDPSVGRFRNMVQTAVVPVKKRVEGPGSLGLEESGSRMQNFASFSGGLYGLPPTHSEAGSQPHG  
 IHGTALIGGLPMPYPNLAPDVDLTPVVPSAVNMNPAPNPAVYNPEAVNEPKKKKYAKEAWPGKKPTPSLL  
 I

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_014110

**ORF Size:** 1053 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\\_014110.3](#), [NP\\_054829.2](#)

**RefSeq Size:** 2336 bp

**RefSeq ORF:** 1056 bp

**Locus ID:** 5511

**UniProt ID:** [Q12972](#)

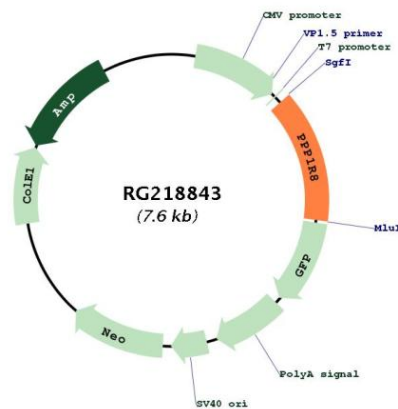
**Cytogenetics:** 1p35.3

**Domains:** FHA

**Protein Families:** Druggable Genome, Transcription Factors

**Gene Summary:** This gene, through alternative splicing, encodes three different isoforms. Two of the protein isoforms encoded by this gene are specific inhibitors of type 1 serine/threonine protein phosphatases and can bind but not cleave RNA. The third protein isoform lacks the phosphatase inhibitory function but is a single-strand endoribonuclease comparable to RNase E of *E. coli*. This isoform requires magnesium for its function and cleaves specific sites in A+U-rich regions of RNA. [provided by RefSeq, Jul 2008]

## Product images:



Circular map for RG218843