

Product datasheet for **RG210575**

NIPP1 (PPP1R8) (NM_138558) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NIPP1 (PPP1R8) (NM_138558) 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:	>RG210575 representing NM_138558 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCAGCCGCGAACTCCGGCTCTAGCCTCCCGCTGTTGCGACTGCCAACCTGGGCAGGTAAGCCCC
CTCCCGTTTTACATCTGGATGTAGTCAAAGGAGACAACTAATTGAGAACTGATTATTGATGAGAAGAA
GTATTACTTATTTGGGAGAAACCCTGATTTGTGTGACTTTACCATTGACCACCAGTCTTGCTCTCGGGTC
CATGCTGCACTTGTCTACCACAAGCATCTGAAGAGAGTTTTCTGATAGATCTCAACAGTACACACGGCA
CTTTCTTGGGTACATTCGGTTGGAACCTCACAAGCCTCAGCAAATTCATCGATTCCACGGTCTCATT
TGGCGCATCCACAAGGGCATACTCTGCGCGAGAAGCCTCAGACATTGCCATCGGCTGTGAAAGGAGAT
GAGAAGATGGGTGGAGAGGATGATGAACTCAAGGGCTTACTGGGGCTTCCAGAGGAGGAAACTGAGCTTG
ATAACCTGACAGAGTTTCACTGCCCACAACAAGCGGATTTCTACCTTACCATTGAGGAGGAAATCT
GGCATTCAAAGACCAAAGAGGAAGAGGAAGAACTCACGGGTGACATTCACTGAGGATGATGAGATCATC
AACCCAGAGGATGTGGATCCCTCAGTTGGTCGATTGAGGAACATGGTGCAAACCTGCACTGGTCCCAGTCA
AGAAGAAGCGTGTGGAGGGCCCTGGCTCCCTGGGCTGGAGGAATCAGGGAGCAGGCGCATGCAGAACTT
TGCCCTTACGGGAGGACTCTACGGGGCCCTGCCCCACACACAGTGAAGCAGGCTCCAGCCACATGCC
ATCCATGGGACAGCACTCATCGGTGGCTTGCCCATGCCATACCCAAACCTTGCCCTGATGTGGACTTGA
CTCCTGTTGTGCGTCAGCAGTGAACATGAACCTGCACCAAACCTGCACTCTATAACCTGAAGCTGT
AAATGAACCCAAGAAGAAGAAATATGCAAAGAGGCTTGCCAGGCAAGAAGCCACACCTTCTTGCTG
ATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG210575 representing NM_138558
Red=Cloning site Green=Tags(s)

MAAAANSGLPLFDCPTWAGKPPPGLHLDVVKGDKLEKLIIDEKYYLFGRNPDLCDFIDHQSCSRV
 HAALVYHKHLKRVFLIDLNSTHGTF LGHIRLEPHKPPQIPIDSTVSFGASTRAYTLREKQTLPSAVKGD
 EKMGGEDDELKGLLGLPEEETELDNLETFITAHNKRISTLTIEEGLDIQRPKRKRKNSRVTFSEDEII
 NPEDVDPSVGRFRNMVQTAVVPVKKRVEGPGSLGLEESGSRMQNFAFSGGLYGLPPTHSEAGSQPHG
 IHGTALIGGLPMPYPNLAPDVLTPVVP SAVNMNPAPNPVYVYVPEAVNEPKKKKYAKEAWPGKKPTPSLL
 I

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_138558

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_138558.1](#), [NP_612568.1](#)

RefSeq Size: 2691 bp

RefSeq ORF: 630 bp

Locus ID: 5511

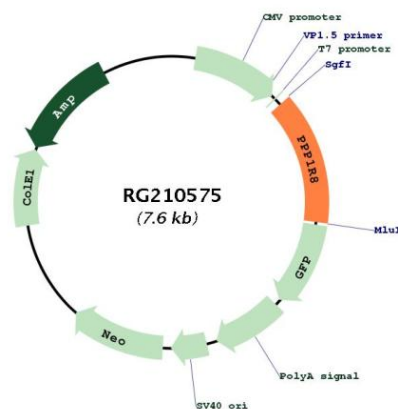
UniProt ID: [Q12972](#)

Cytogenetics: 1p35.3

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 RG210575