

## Product datasheet for RC210575

### 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:	Myc-DDK
Symbol:	NIPP1
Synonyms:	ARD-1; ARD1; NIPP-1; NIPP1; PRO2047
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC210575 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGCAGCCGCGAACTCCGGCTCTAGCCTCCCGCTGTTGCGACTGCCAACCTGGGCAGGTAAGCCCC  
CTCCCGTTTTACATCTGGATGTAGTCAAAGGAGACAACTAATTGAGAACTGATTATTGATGAGAAGAA  
GTATTACTTATTTGGGAGAAACCCTGATTTGTGTGACTTTACCATTGACCACCAGTCTTGCTCTCGGGTC  
CATGCTGCACTTGTCTACCACAAGCATCTGAAGAGAGTTTTCTGATAGATCTCAACAGTACACACGGCA  
CTTTCTTGGGTACATTCGGTTGGAACCTCACAGCCTCAGCAAATTCATCGATTCCACGGTCTCATT  
TGGCGCATCCACAAGGGCATACTCTGCGCGAGAAGCCTCAGACATTGCCATCGGCTGTGAAAGGAGAT  
GAGAAGATGGGTGGAGAGGATGATGAACTCAAGGGCTTACTGGGGCTTCCAGAGGAGGAAACTGAGCTTG  
ATAACCTGACAGAGTTTCACTGCCCACAACAAGCGGATTTCTACCTTACCATTGAGGAGGAAATCT  
GGACATTCAAAGACCAAAGAGGAAGAGGAAGAAGTACCGGGTGCATTGAGTGGAGATGATGAGATCATC  
AACCCAGAGGATGTGGATCCCTCAGTTGGTCGATTGAGGAACATGGTGCAAACCTGCAGTGGTCCCAGTCA  
AGAAGAAGCGTGTGGAGGGCCCTGGCTCCCTGGGCCTGGAGGAATCAGGGAGCAGGCGCATGCAGAACTT  
TGCCCTTACGCGGAGGACTCTACGGGGCCCTGCCCCACACACAGTGAAGCAGGCTCCAGCCACATGCC  
ATCCATGGGACAGCACTCATCGGTGGCTTGCCCATGCCATACCCAAACCTTGCCCTGATGTGGACTTGA  
CTCCTGTTGTGCGTCAGCAGTGAACATGAACCTGCACCAAACCTGCAGTCTATAACCTGAAGCTGT  
AAATGAACCCAAGAAGAAGAAATATGCAAAGAGGCTTGCCAGGCAAGAAGCCACACCTTCTTGCTG  
ATT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA



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**Protein Sequence:** >RC210575 protein sequence  
 Red=Cloning site Green=Tags(s)

MAAAANSGLPLFDCPTWAGKPPPGLHLDVVKGDKLIEKLIIDEKYYLFG RNPDLCDFTIDHQSCSRV  
 HAALVYHKHLKRVFLIDLNSTHGTF LGHIRLEPHKPPQIPIDSTVSFGASTRAYTLREKQTLPSAVKGD  
 EKMGGEDDELKGLLGLPEEETELDNL TEFITAHNKRI STL TIEEGLDIQRPKRKRKNSRVTFSEDEII  
 NPEDVDPVSVGRFRNMVQTAVVPVKKRVEGPGSLGLEESGSRMQNF AFSGGLYGGLPPTHSEAGSQPHG  
 IHGTALIGGLPMPYPNLAPDVDLTPVVP SAVNMNPAPNPAVYNPEAVNEPKKKKYAKEAWPGKKPTPSLL  
 I

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6281\\_b07.zip](https://cdn.origene.com/chromatograms/mk6281_b07.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_138558

**ORF Size:** 1056 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 Size:** 2659 bp

**RefSeq ORF:** 630 bp

**Locus ID:** 5511

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

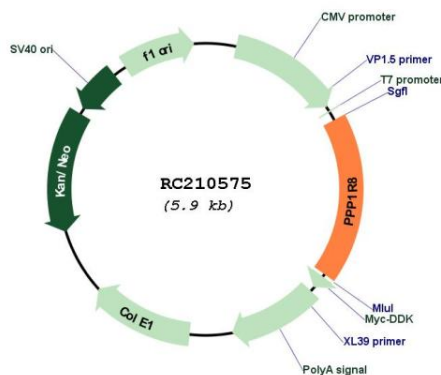
**Cytogenetics:** 1p35.3

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

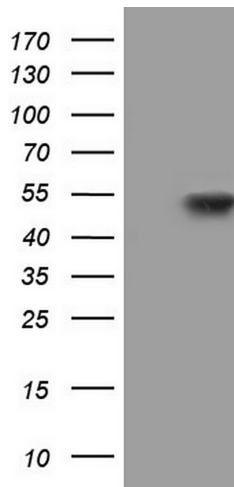
**MW:** 38.5 kDa

**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]

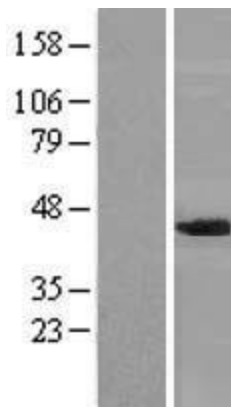
### Product images:



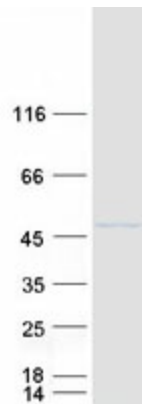
Circular map for RC210575



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY PPP1R8 (Cat# RC210575, 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-PPP1R8(Cat# [TA804812]). Positive lysates [LY408577] (100ug) and [LC408577] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY408577]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210575 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PPP1R8 protein (Cat# [TP310575]). The protein was produced from HEK293T cells transfected with PPP1R8 cDNA clone (Cat# RC210575) using MegaTran 2.0 (Cat# [TT210002]).