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Product datasheet for RC218843

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:	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:

>RC218843 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGCAGCCGCGAACTCCGGCTCTAGCCTCCCGCTGTTCGACTGCCCAACCTGGGCAGGTAAGCCCC
CTCCCGGTTTACATCTGGATGTAGTCAAAGGAGACAAACTAATTGAGAAACTGATTATTGATGAGAAGAA
GTATTACTTATTTGGGAGAAACCCTGATTTGTGTGACTTTACCATTGACCACCAGTCTTGCTCTCGGGTC
CATGCTGCACTTGTCTACCACAAGCATCTGAAGAGAGTTTTCCTGATAGATCTCAACAGTACACACGGCA
CTTTCTTGGGTCACATTCGGTTGGAACCTCACAAGCCTCAGCAAATTCCCATCGATTCCACGGTCTCATT
TGGCGCATCCACAAGGGCATACACTCTGCGCGAGAAGCCTCAGACATTGCCATCGGCTGTGAAAGGAGAT
GAGAAGATGGGTGGAGAGGATGATGAACTCAAGGGCTTACTGGGGCTTCCAGAGGAGGAAACTGAGCTTG
ATAACCTGACAGAGTTCATCACTGCCCACAACAAGCGGATTTCTACCCTTACCATTGAGGAGGGAAATCT
GGACATTCAAAGACCAAAGAGGAAGAGGAAGAACTCACGGGTGACATTCAGTGAGGATGATGAGATCATC
AACCCAGAGGATGTGGATCCCTCAGTTGGTCGATTCAGGAACATGGTGCAAACTGCAGTGGTCCCAGTCA
AGAAGAAGCGTGTGGAGGGCCCTGGCTCCCTGGGCCTGGAGGAATCAGGGAGCAGGCGCATGCAGAACTT
TGCCTTCAGCGGAGGACTCTACGGGGGCCTGCCCCCCACACACAGTGAAGCAGGCTCCCAGCCACATGGC
ATCCATGGGACAGCACTCATCGGTGGCTTGCCCATGCCATACCCAAACCTTGCCCCTGATGTGGACTTGA
CTCCTGTTGTGCCGTCAGCAGTGAACATGAACCCTGCACCAAACCCTGCAGTCTATAACCCTGAAGCTGT
AAATGAACCCAAGAAGAAGAAATATGCAAAAGAGGCTTGGCCAGGCAAGAAGCCCACACCTTCCTTGCTG
ATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC218843 protein sequence
Red=Cloning site Green=Tags(s)

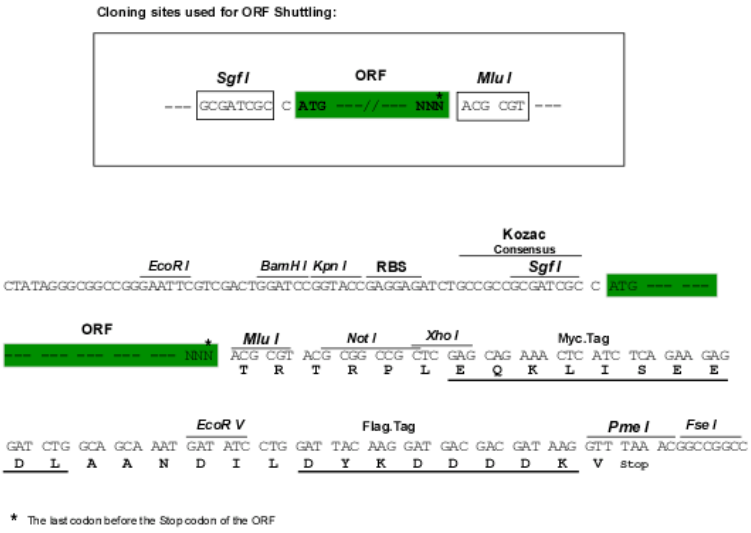
MAAAANSGSSLPLFDCPTWAGKPPPGLHLDVVKGDKLIEKLIIDEKKYYLFGRNPDLCDFTIDHQSCSRV
HAALVYHKHLKRVFLIDLNSTHGTFLGHIRLEPHKPQQIPIDSTVSFGASTRAYTLREKPQTLPSAVKGD
EKMGGEDDELKGLLGLPEEETELDNLTEFITAHNKRISTLTIEEGNLDIQRPKRKRKNSRVTFSEDDEII
NPEDVDPSVGRFRNMVQTAVVPVKKKRVEGPGSLGLEESGSRRMQNFAFSGGLYGGLPPTHSEAGSQPHG
IHGTALIGGLPMPYPNLAPDVDLTPVVPSAVNMNPAPNPAVYNPEAVNEPKKKKYAKEAWPGKKPTPSLL
I

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6542_a09.zip

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_014110.5

RefSeq Size: 2377 bp

RefSeq ORF: 1056 bp

Locus ID: 5511

UniProt ID: Q12972

Cytogenetics: 1p35.3

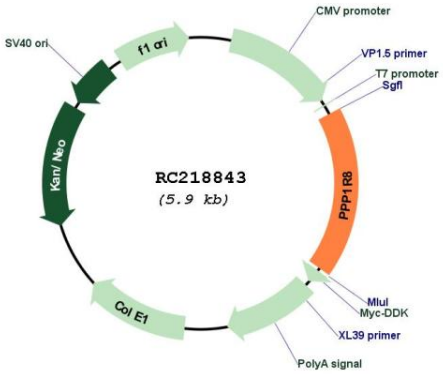
Domains: FHA

Protein Families: Druggable Genome, Transcription Factors

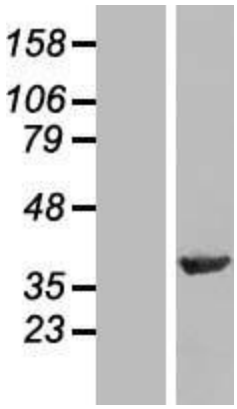
MW: 38.5 kDa

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]

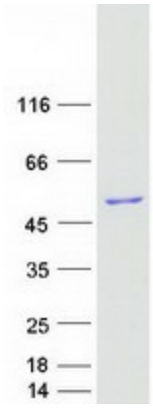
Product images:



Circular map for RC218843



Western blot validation of overexpression lysate (Cat# [LY415484]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218843 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PPP1R8 protein (Cat# [TP318843]). The protein was produced from HEK293T cells transfected with PPP1R8 cDNA clone (Cat# RC218843) using MegaTran 2.0 (Cat# [TT210002]).