

## Product datasheet for **SC124701**

### **NIPP1 (PPP1R8) (NM\_002713) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NIPP1 (PPP1R8) (NM_002713) Human Untagged Clone
Tag:	Tag Free
Symbol:	NIPP1
Synonyms:	ARD-1; ARD1; NIPP-1; NIPP1; PRO2047
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC124701 sequence for NM_002713 edited (data generated by NextGen Sequencing) ATGGTGCAAACCTGCAGTGGTCCCAGTCAAGAAGAAGCGTGTGGAGGGCCCTGGCTCCCTG GGCCTGGAGGAATCAGGGAGCAGGCGCATGCAGAACTTTGCCTTCAGCGGAGGACTCTAC GGGGCCCTGCCCCCACACAGTGAAGCAGGCTCCCAGCCACATGGCATCCATGGGACA GCACTCATCGGTGGCTTGCCCATGCCATACCCAAACCTTGCCCCTGATGTGGACTTGACT CCTGTTGKCCGTGAGCAGTGAACATGAACCCTGCACCAAACCTGCAGTCTATAACCCT GAAGCTGTAAATGAACCCAAGAAGAAGAAATATGCAAAGAGGCTTGCCAGGCAAGAAG CCCACACCTTCCTTGCTGATTTGA  Clone variation with respect to NM_002713.3 249 g=>k



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_002713 unedited NNNCCAGGTCAAATTTGTATACGACTCATATAGGGCGGCCGGAATTCGCACGAGGGCGG CAGCCCGGAACTCCGGCTCTAGCCTCCCCTGTTTCGACTGCCAACCTGGGCAGGTAAGC CCCCTCCCGGTTTACATCTGGATGTAGTCAAAGGAGACAACTAATTGAGAACTGATTA TTGATGAGAAGAAGTATTACTTATTTGGGAGAAACCCTGATTTGTGTGACTTTACCATTG ACCACCAGTCTTGCTCTCGGGTCCATGCTGCACTTGCTACCACAAGCATCTGAAGAGAG TTTTCTGATAGATCTCAACAGTACACACGGCACTTTCTTGGGTACATTCGGTTGGAAC CTCACAAGCCTCAGCAAATTCCTATCGATTCCACGGTCTCATTTGGCGCATCCACAAGGG CATACTCTGCGCGAGAAGCCTCAGACATTGCCATCGGCTGTGAAAGGAGATGAGAAGA TGGGTGGAGAGGATGATGAACTCAAGGGCTTACTGNGGCTTCCAGAGGAGGAACTGAGC TTGATAACCTGACAGAGTTCAACACTGCCACAACAAGCGATTCTACCCTGACCATTG ANGAGGNAATCTGGACATTCAAAGACCANAGAGGAAGAGGAAGAAGCACTCACGGGTGACAT TCAGTGAGGATGATGAGATCATCAACCCAGAGATGTGGATCCCTCAGTGGNTCGATTGAG GAACATGGNTGCAACTGCAGTGGNTCCAGTCAAGAAAAACGTGTGGNAGGCCCTGGCTCC CTGGCCTGNAGAATCANGNACANGCGATGCANAACCTTGCCTTAGCAGAGACTCTACGGGG CCTGCCCCACACACATGAGCAGCTCCAGCCCATGCATCATGGACACCTCATCGTGGCTGC CATGCATACCAANCTGCCTGAGTACTGACTCCTGTGTCGN
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_002713
<b>Insert Size:</b>	2400 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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_002713.2</a> , <a href="#">NP_002704.1</a>
<b>RefSeq Size:</b>	2590 bp
<b>RefSeq ORF:</b>	384 bp
<b>Locus ID:</b>	5511
<b>UniProt ID:</b>	<a href="#">Q12972</a>
<b>Cytogenetics:</b>	1p35.3
<b>Protein Families:</b>	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]

Transcript Variant: This variant (3) encodes the shortest isoform (gamma, also called ARD-1). It has its first exon longer at the 3' end and lacks an internal exon as compared to that of transcript variant 1. The gamma isoform uses a different translation start site and is N-terminally truncated as compared to isoform alpha encoded by variant 1. Isoform gamma contains ribonuclease activity.