

## Product datasheet for **SC120008**

### Nucleoside phosphorylase (PNP) (NM\_000270) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Nucleoside phosphorylase (PNP) (NM_000270) Human Untagged Clone
Tag:	Tag Free
Symbol:	Nucleoside phosphorylase
Synonyms:	NP; PRO1837; PUNP
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC120008 sequence for NM_000270 edited (data generated by NextGen Sequencing)

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ATGGAGAACGGATACACCTATGAAGATTATAAGAACACTGCAGAATGGCTTCTGTCTCAC
ACTAAGCACCGACCTCAAGTTGCAATAATCTGTGGTTCTGGATTAGGAGGTCTGACTGAT
AAATTAACCTCAGGCCAGATCTTTGACTACGGTGAAATCCCCAACTTTCCCCGAAGTACA
GTGCCAGGTCATGCTGGCCGACTGGTGTGGTTCCTGAATGGCAGGGCCTGTGTGATG
ATGCAGGGCAGGTTCCACATGTATGAAGGGTACCCACTCTGGAAGGTGACATTCCCAGTG
AGGGTTTTCCACCTTCTGGGTGTGGACACCCTGGTAGTCACCAATGCAGCAGGAGGGCTG
AACCCCAAGTTTGAGGTTGGAGATATCATGCTGATCCGTGACCATATCAACCTACCTGGT
TTCAGTGGTCAGAACCCTCTCAGAGGGCCAATGATGAAAGGTTTGGAGATCGTTTCCCT
GCCATGTCTGATGCCTACGACCGGACTATGAGGCAGAGGGCTCTCAGTACCTGGAACAA
ATGGGGGAGCAACGTGAGCTACAGGAAGGCACCTATGTGATGGTGGCAGGCCCCAGCTTT
GAGACTGTGGCAGAATGTCGTGTGCTGCAGAAGCTGGGAGCAGACGCTGTTGGCATGAGT
ACAGTACCAGAAGTTATCGTTGCACGGCACTGTGGACTTCGAGTCTTTGGCTTCTCACTC
ATCACTAACAAGGTCATCATGGATTATGAAAGCCTGGAGAAGGCCAACCATGAAGAAGTC
TTAGCAGCTGGCAAACAAGCTGCACAGAAATTGGAACAGTTTGTCTCCATTCTTATGGCC
AGCATTCCACTCCCTGACAAAGCCAGTTGA

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Clone variation with respect to NM\_000270.3



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_000270 unedited  
 TTGTAACACGACTTTACTATANNNGCGGCCGNAATTCGGCACGAGGGACCCGGCAGCC  
 TTGCTCAGTTCAGCATAGCGGAGCGGATCCGATCGGATCGGAGCGGATCGGAGCACACCG  
 GAGCAGGCTCATCGAAGGGCTCTGCGAGACCATGGAGAACGGATACACCTATGAAGAT  
 TATAAGAACTGCAGAAATGGCTTCTGTCTCACACTAAGCACCGACCTCAAGTTGCAATA  
 ATCTGTGGTTCTGGATTAGGAGGTCTGACTGATAAATTAAGTCAAGGCCAGATCTTTGAC  
 TACGGTAAATCCCAACTTTCCCGAAGTACAGTGCCAGGTCATGCTGGCCGACTGGTG  
 TTTGGGTTCCCTGAATGGCAGGGCCTGTGTGATGATGCAGGGCAGGTTCCACATGTATGAA  
 GGGTACCACTCTGGAAGGTGACATTCCCAAGTGGGGTTTTCCACCTTCTGGGTGTGGAC  
 ACCCTGGTAGTCACCAATGCAGCAGGAGGGCTGAACCCCAAGTTTGGAGTTGGAGATATC  
 ATGCTGATCCGTGACCATATCAACCTACCTGGTTTTCAGTGGTCAGAACCCTCTCAGAGGG  
 CCCAATGATGAAAGGTTTGGAGATCGTTTCCCTGCCATGTCTGATGCCTACGACCCGACT  
 ATGAGGCAGAGGGCTCTCAGTACCTGAAACAAATGGGGGAGCAACGTGAGCTACANGGA  
 AGCACCTATGTGATGGTGGCAGGCCAGCTTTGAGACTGTGGCAGAATGTCGTGTGCTG  
 CAAAAGCTGGGAGCAGACGCTGTGGCATGAGTACAGTACCAGAAGTTATCCGTGCACGG  
 CACTGTGGACCTCCAGTCTTTGGCCNCTCACTCATCACTAACAAGGGCTCATGGAT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_000270 unedited  
 TTTTATGCCACGCGGCCCAATCTAATATCGAGTTTTTTTTTTTTTTTTTTTATTTTCATC  
 TTTCTCTTTATCCTGACAACATTATGACATTCAATAAAATCCAAGAGGATTGGATTACC  
 CCCTTGCTTGGTCCCTGGTGATTACATCCGGTACAACCTGATCCTCTCCGAACGTATTAT  
 TTCTAAGAGCTAGCACCAGCTGCTATGCAAAGCTCTAAGGGCCGAGCCAAATCCTGGGCA  
 TCTCCACAGCATGTGCGGCAGGGCACGGCCTTAGTTCTCGTGTAAAGAAAGACCAGGAAC  
 GAGAACAGCTTTATCCGTACCGCTAATGTTCTTCTATGCTCACACTTGTCTTTAGCT  
 TTGAGACAAGGACCCGGCCCCCTCGTCTTGCCATAAGACCGTGGGAAAGGCGAACGCA  
 ATGACACCTCTCCTTTCTGCTCCACCTATCCCCACGCCTCGCACTCTTCTTCGCGCCC  
 TAGACCGCCGACCTTCCCGGTTCCCTGCGTGTATACGCCTCACTATCCCTTCGTTTCCC  
 TTTTGATCTCCCATGCCGGCCACCCCTCCCCACAGTGCACCCTTTGTCCTCCATCCTGT  
 CGCTCTGTTCCGCCATCGTCATACTTCTCTGTTGACCTTCCCTCGTCCCCCTCCTT  
 TTCCATCTTCTTCCCCCTTACTTCCCCACTTCCCTTCTCCCGCCCTCCATACTCCT  
 CCGTCCCCCTTCTTCCCCCTTCCCCCTTTTTCCGCCTCCTTTTTTCCCCCTTT  
 TTTCCCCGCTTCCGTTCCCTCTCTTCCCCCTTTTAACTCCCCCTTTTTTTCTTTCC  
 ATACAGAGTATCCCTCCTCCTCCCCGTTCTTCCCTCTATTTCCGACTACTATTCCCCCC  
 CATCTCT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_000270

**Insert Size:**

1530 bp

**OTI Disclaimer:**

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).

**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).

<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_000270.1</a> , <a href="#">NP_000261.1</a>
<b>RefSeq Size:</b>	1418 bp
<b>RefSeq ORF:</b>	870 bp
<b>Locus ID:</b>	4860
<b>UniProt ID:</b>	<a href="#">P00491</a>
<b>Cytogenetics:</b>	14q11.2
<b>Domains:</b>	Mtap_PNP
<b>Protein Families:</b>	Druggable Genome, Stem cell - Pluripotency
<b>Protein Pathways:</b>	Metabolic pathways, Nicotinate and nicotinamide metabolism, Purine metabolism, Pyrimidine metabolism
<b>Gene Summary:</b>	<p>This gene encodes an enzyme which reversibly catalyzes the phosphorolysis of purine nucleosides. The enzyme is trimeric, containing three identical subunits. Mutations which result in nucleoside phosphorylase deficiency result in defective T-cell (cell-mediated) immunity but can also affect B-cell immunity and antibody responses. Neurologic disorders may also be apparent in patients with immune defects. A known polymorphism at aa position 51 that does not affect enzyme activity has been described. A pseudogene has been identified on chromosome 2. [provided by RefSeq, Jul 2008]</p>