

## Product datasheet for **RG208800**

### **PNPT1 (NM\_033109) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PNPT1 (NM_033109) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PNPT1
Synonyms:	COXPD13; DFNB70; old-35; OLD35; PNPASE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG208800 representing NM\_033109  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGCCTGCAGTACTGCTGCTCGTCCGCTCCGGCTCCGGCCCTGAGCGATGGTCTTTCTTCTGTC  
 CACGGCGGGATCGGGCACTCACCCAGTTGCAAGTGCAGCACTATGGAGTAGCGCAGGGTCTCGAGCTGT  
 GGCCGTGGACTTAGGCAACAGGAAATTAGAAATATCTTCTGAAAAGCTGGCCAGATTTGCAGATGGCTCT  
 GCTGTAGTACAGTCAAGTACACTGCAGTAATGGTACAGCGGTGAGTAAAAACAAACCTTCCCCTTCCC  
 AGTTTATGCCTTTGGTGGTTGACTACAGACAAAAGCTGCTGCAGCAGGTAGAATCCCACAAACTATCT  
 GAGAAGAGAGATTGGTACTTCTGATAAAGAAATCTAACAAAGTGAATAATAGATCGTTCAATTAGACCG  
 CTCTTCCAGCTGGCTACTTCTATGATACACAGGTTCTGTGAATCTGTTAGCAGTAGATGGTGAATG  
 AGCCTGATGCTCAGCAATTAATGGCGCTCCGTAGCCCTCTCATTATCAGATATTCCTTGAATGGACC  
 TGTTGGGGCAGTACGAATAGGAATAATTGATGGAGAATATGTTGTTAACCCAACAAGAAAAGAAATGTCT  
 TCTAGTACTTTAAATTTAGTGGTTGCTGGAGCACCTAAAAGTCAAGTTGTCATGTTGGAAGCCTCTCGAG  
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 GGGCATTACAGCAGTTGGTAAAAGAACTGGTGTACCAAGAGGACACCTCAGAAGTTATTTACCCCTTCG  
 CCAGAGATTGTGAAATATACTCATAAACTTGTATGGAGAGACTCTATGCAGTTTTTACAGATTACGAGC  
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 ATGTTTTGAATGAATACAAAAGGTGCGATGGTGGGATTTGACTTCACTTAGGAATGAAGTTGTGAGG  
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 TACATTTGATTCATTAGAATCTGGTATTAAGTCAAGTCAAGTTATAACAGCTATAAATGGGATAAAAGAT  
 AAAAATTTTCATGCTGCACTACGAGTTTCTCTCTTATGCAACTAATGAAATTTGGCAAAGTCACTGGTTTAA  
 ATAGAAGAGAAGTTGGGCATGGTCTTGTGCTGAGAAAAGCTTTGTATCCTGTTATTTCCCGAGATTTTCC  
 TTTACCATAAGAGTTACATCTGAAGTCTAGAGTCAAATGGGTCATCTTCTATGGCATCTGCATGTGGC  
 GGAAGTTTAGCATTAAATGGATTCAGGGTTCCAATTTCTCTGCTGTTGCAGGCGTAGCAATAGGATTGG  
 TCACAAAACCGATCCTGAGAAGGGTGAATAGAAGATTATCGTTTGTGACAGATATTTTGGGAATTGA  
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 AATATGACTGCGTACTGCTTCATAACACACAACCTGATCAACGAAAGATTAAACATCCTACTGCCCTAG  
 GATTAGAAGTTGGCCAAGAAATTCAGGTGAAATACTTTGGACGTGACCCAGCCGATGGAAGAATGAGGCT  
 TTCTCGAAAAGTCTTCAAGTCCAGCTACAACCGTGGTCAGAAGTTGAATGACAGAAGTAGTATTGTA  
 ATGGGAGAAGCTATTTTACAGTCATCATTAATTCTCAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG208800 representing NM\_033109  
Red=Cloning site Green=Tags(s)

MAACRYCCSCLRLRPLSDGPFLLPRRDRALTQLQVRALWSSAGSRAVAVDLGNRKLEISSGKLARFADGS  
AVVQSGDTAVMVTAVSKTKPSPSQFMPLVVDYRQKAAAAGRIPTNYLRREIGTSDKEILTSRIIDRSIRP  
LFPAGYFYDTQVLCNLLAVDGVNEPDVLAINGASVALSLSDIPWNGPVGAVRIGIIDGEYVVPTRKEMS  
SSTLNLVVAGAPKSQIVMLEASAENILQQDFCHAIKVGKVTQQIIQGIQQLVKETGVTKRTPQKLFPS  
PEIVKYTHKLAMERLYAVFTDYEHDKVSREAVNKIRLDTEEQLEKFPPEADPYEIIESFNVAKEVFRS  
IVLNEYKRCDGRDLTSLRNVSCVDMFKTLHGSALEFQRGQTQVLCVTFDSLESGIKSDQVITAINGIKD  
KNFMLHYEFPPYATNEIGKVTGLNRRELGHGALAEKALYPVIPRDFPFTIRVTSEVLESNGSSSMASACG  
GSLALMDSGVPISAVAGVAIGLVTKTDPEKGEIEDYRLLTDILGIEDYNGDMDFKIAGTNKGITALQAD  
IKLPGIPIKIVMEAIQQASVAKKEILQIMNKTISKPRASRKENGPVVETVQVPLSKRAKRVGPGGYNLKK  
LQAETGVTISQVDEETFSVFAPTPSAMHEARDFITEICKDDQEQLEFGAVYTATITEIRDVGVMVKLYP  
NMTAVLLHNTQLDQRKIKHPTALGLEVGQEIQVKYFGRDPADGRMRLSRKVLQSPATTVVRTLNDRSSIV  
MGEPISQSSSNSQ

TRTRPLE - GFP Tag - V

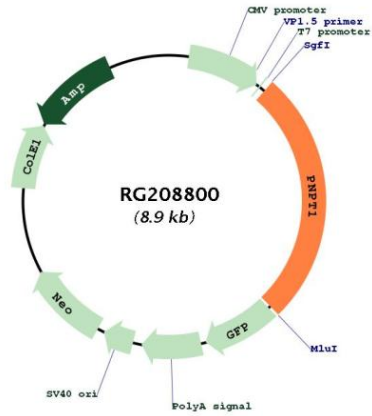
**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2121\\_b11.zip](https://cdn.origene.com/chromatograms/ja2121_b11.zip)

**Restriction Sites:** Sgfl-Mlul



<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_033109.5</a>
<b>RefSeq Size:</b>	4579 bp
<b>RefSeq ORF:</b>	2352 bp
<b>Locus ID:</b>	87178
<b>UniProt ID:</b>	<a href="#">Q8TCS8</a>
<b>Cytogenetics:</b>	2p16.1
<b>Domains:</b>	RNase_PH_C
<b>Protein Pathways:</b>	Purine metabolism, Pyrimidine metabolism, RNA degradation
<b>Gene Summary:</b>	<p>The protein encoded by this gene belongs to the evolutionary conserved polynucleotide phosphorylase family comprised of phosphate dependent 3'-to-5' exoribonucleases implicated in RNA processing and degradation. This enzyme is predominantly localized in the mitochondrial intermembrane space and is involved in import of RNA to mitochondria. Mutations in this gene have been associated with combined oxidative phosphorylation deficiency-13 and autosomal recessive nonsyndromic deafness-70. Related pseudogenes are found on chromosomes 3 and 7. [provided by RefSeq, Dec 2012]</p>

Product images:



Circular map for RG208800