

Product datasheet for **SC100684**

PNPT1 (NM_033109) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PNPT1 (NM_033109) Human Untagged Clone
Tag:	Tag Free
Symbol:	PNPT1
Synonyms:	COXPD13; DFNB70; old-35; OLD35; PNPASE
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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Fully Sequenced ORF: >OriGene ORF within SC100684 sequence for NM_033109 edited (data generated by NextGen Sequencing)

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ATGGCGGCCTGCAGGTAAGTCTGCTGCTCGTGCCTCCGGCTCCGGCCCTGAGCGATGGTCTT
TTCCTTCTGCCACGGCGGGATCGGGCACTACCCAGTTGCAAGTGCGAGCACTATGGAGT
AGCGCAGGGTCTCGAGCTGTGGCCGTGGACTTAGGCAACAGGAAATAGAAATATCTTCT
GGAAAGCTGGCCAGATTTGCAGATGGCTCTGCTGTAGTACAGTCAGGTGACACTGCAGTA
ATGGTCACAGCGGTCAAGTAAAACAAAACCTTCCCCTTCCCAGTTTATGCCTTTGGTGGT
GACTACAGACAAAAGCTGCTGCAGCAGGTAGAATCCCACAAACTATCTGAGAAGAGAG
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CTCTTTCCAGCTGGCTACTTCTATGATACACAGGTTCTGTGAATCTGTTAGCAGTAGAT
GGTGTAATGAGCCTGATGCTCCTAGCAATTAATGGCGCTTCCGTAGCCCTCTCATTATCA
GATATTCCTTGGAAATGGACCTGTTGGGGCAGTACGAATAGGAATAATTGATGGAGAATAT
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GCACCTAAAAGTCAGATTGTCATGTTGGAAGCCTCTGCAGAGAACATTTTACAGCAGGAC
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CAGTTGGTAAAAGAACTGGTGTACCAAGAGGACACCTCAGAAGTTATTTACCCCTTCG
CCAGAGATTGTGAAATATACTCATAAACTTGTATGGAGAGACTCTATGCAGTTTTTACA
GATTACGAGCATGACAAAGTTTCCAGAGATGAAGCTGTTAACAAAATAAGATTAGATACG
GAGGAACAACTAAAAGAAAAATTTCCAGAAGCCGATCCATATGAAATAATAGAATCCTTC
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GGTCGGGATTTGACTTCACTTAGAATGTAAGTTGTGAGGTAGATATGTTTAAAACCTT
CATGGATCAGCATTATTTCAAAGAGGACAAACACAGGTGCTTTGTACCGTTACATTTGAT
TCATTAGAATCTGGTATTAAGTCAGATCAAGTTATAACAGCTATAAATGGGATAAAAAGAT
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ACTGGTTTAAATAGAAGAGAACTTGGGCATGGTCTCTTGTGAGAAAAGCTTTGTATCCT
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CCAATTTTCATCTGCTGTTGCAGGCTAGCAATAGGATTGGTCACCAAAACCGATCCTGAG
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ATTAATTTACCTGGAATACCAATAAAAAATTTGTGATGGAGGCTATTCAACAAGCTTCAGT
GCAAAAAAGGAGATATTACAGATCATGAACAAAACCTATTTCAAACCTCGAGCATCTAGA
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GTTGGACCTGGTGGCTATAACTTAAAAAACTTCAAGGCTGAAACAGGTGTAATATTAGT
CAGGTGGATGAAGAACTGTTTCTGTATTTGCACCAACACCCAGTGTATGCATGAGGCA
AGAGACTTCACTACTGAAATCTGCAAGGATGATCAGGAGCAGCAATTAGAATTTGGAGCA
GTATATACCGCCACAATAACTGAAATCAGAGATACTGGTGAATGGTAAAATTTATATCCA
AATATGACTGCGTACTGCTTCAACACACAACCTTGTCAACGAAAGATTAAACATCCT
ACTGCCCTAGGATTAGAAGTTGGCCAAGAAATTCAGGTGAAATACTTTGGACGTGACCCA
GCCGATGGAAGAATGAGGCTTTCTCGAAAAGTGCTTCAGTCGCCAGCTACAACCGTGGTC
AGAACTTTGAATGACAGAAGTAGTATTGTAATGGGAGAACCTATTTACAGTCATCATCT
AATTCTCAGTGA
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Clone variation with respect to NM_033109.3
361 a=>g;1390 c=>a

Restriction Sites: Please inquire
ACCN: NM_033109
Insert Size: 2500 bp

OTI Disclaimer:	<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 custsupport@origene.com 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. More info</p>
OTI Annotation:	This clone passes our TrueClone QC standards.
RefSeq:	NM_033109.2 , NP_149100.1
RefSeq Size:	3274 bp
RefSeq ORF:	2352 bp
Locus ID:	87178
UniProt ID:	Q8TCS8
Domains:	RNase_PH_C
Protein Pathways:	Purine metabolism, Pyrimidine metabolism, RNA degradation
Gene Summary:	<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>