

Product datasheet for **MC220827**

Pnpt1 (BC055826) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pnpt1 (BC055826) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pnpt1
Synonyms:	Old35, PNPase, RP23-313I4.2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >BC055826
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGCTGCAGGCTGTGCTGCTTGTGCCCGTGCCTCCGACCGCTGGGCTGCGGCCCCCTCGGCCGGC
 CCGGGCGGAATCGGGCACTCAGCTATTTGCAGATGCGAGCGTTGTGGAGCAGCACCGGATCCAGAGCGGT
 GACTGTAGACCTGGGACACAGAAAATTAGAAAATCCTCTGGGAAACTGGCAAGATTTGCTGATGCTGT
 GCTGTGATACAGTCAGGCGATACTGCAGTAATGGTCACGGCAGTCAGAAAAAAAAGCTTCGCCTTCCC
 AATTCATGCCGTTGGTGGTGGACTACCGACAGAAGGCTGCTGCAGCAGGCAGAATCCCCACAACTACCT
 TAGAAGGGAGATTGGCTCCTCTGACAGAGAGGTTCTTACAAGTCGAGTAATAGATCGTTCAATTCGCCCT
 CTCTTTCCAGCCGGCTATTTTTATGATACTCAGGTTCTCTGTAATCTGCTAGCAGTAGATGGCATCAATG
 AACCTGATATCCTAGCAGTTAATGGTGTCTCTGAGCCCTCTCCTTATCAGATATCCCTTGAATGGACC
 TGTTGGGGCAGTACGAATAGGAATGATTGATGGAGAATGTGTCGTTAACCCAACAAGGAGAGAAATGTCT
 TCTAGCACTTTAAATTTAGTAGTTGCCGAGCACCTAAAAGCCAAATGTTATGTTGGAAGCCTCTGCAG
 AAAATATTCTACAGCAGGACTTTTGCCATGCTATCAAAGTTGGGGTGAAGTATACACAGCAGATAATTCA
 AGGCATCCAGCAGTTGGTAAAAGAAATCGGTGTTGCCAAGAGGACACCGCAGAAGATATTTACTCCTTCT
 GCAGAGATTGTGAAGTACACGAAGATAATTGCCATGGAGAAACTCTATGCGGTTTTTACAGATTATGAAC
 ATGATAAAGTTTCCAGGGATGAAGCTGTTAACAAGATAAGATTAGATACAGAGGAGCATCTAAAGGAAAA
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 ATATTTTTGAATGAATACAAAAGGTGTGATGGAAGAGATCTGACTTCACTTAGGAATATAAGTTGTGAGG
 TCGATATGTTTTAAAACACTTTCATGGATCAGCATTATTTCCAGAGAGGACAAACACAGGTACTCTGTACTGT
 TACATTTGATTCATTAGAAATCCAGTATTAAGTCAGATCAAATTATAACAGCTATAAATGGGGTAAAAGAT
 AAAAATTTTCATGCTGCACTATGAGTTCCCTCCTTATGCAACCAATGAAACTGGCAAAGTTACTGGTGTGA
 ATCGAAGAGAACTTGACATGGTGTCTTGGCAGAAAAGCTTTGTGCTCTGTTATTTCCAAAGATTTTCC
 TTTTACCATAAGAGTTACATCTGAAGTCTCGAATCAAATGGGTCATCTTCTATGGCATCTGCATGTGGT
 GGAAGTTTGGCATTAAATGGATGCAGGGTCCCAATTTCTGCTGTTGCAGGTGTAGCAGTGGGATTGG
 TTACCAAAAACCAATCCAGAGAAAGGTGAAATAGAAGACTACCGTTTGTAAACAGATATTCTGGGAATTGA
 AGATTATAATGGTGACATGGATTTCAAATAGCCGGTACAAATAAAGGAATAACTGCATTACAGGCTGAT
 ATTAAGTTACCTGGAGTACCAATTAATAATGGAAGCCATCCAACAAGCGTCAGTGGCAAAGAAGG
 AGATACTGCAGATAATGAACAAAACGATTTCAAACCTCGAGCATCAAGAAAAGAAAATGGACCAGTTGT
 AGAAACAGTAAAGGTTCCATTATCAAAACGAGCAAAATTCGTTGGGCCTGGTGGATCACTTAAAAAAA
 CTCCAGGCTGAGACAGGTGTAACAATTAGTCAGGTTGATGAAGAAACCTTCTCCATATTTGCACCAACAC
 CTACTGCAATGCATGAAGCAAGAGATTTTATTACAGAAATTTGCAGAGATGATCAAGAGCAACAATTAGA
 ATTTGGAGCAGTTTATACCGCGACAATAACTGAAATCAGAGACTGGAGTGTGGTAAAACCTGTATCCA
 AACATGACTGCAGTGTGCTTATAATTCACAACCTGACCAACGAAAGATTAAACATCCCCTGCCCCTAG
 GACTAGAGGTTGGCCAAGAAATTCAGGTCAAACTTTGGCCGTGATCCAGCTGATGGAAGAATGAGGCT
 TTCTCGTAAAGTACTTTCAGTCTCCAGCTACAACCTGCTCTCAAAACTCTAAATGATAGAAGCAGCATTGTA
 ATGGGAGAGCCTGTCTCACAGTCATCTAACTCTAACCCCTTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: BC055826
Insert Size: 2352 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).
Reconstitution Method:	<ol style="list-style-type: none">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:	BC055826 , AAH55826
RefSeq Size:	2598 bp
RefSeq ORF:	2351 bp
Locus ID:	71701
Cytogenetics:	11 A3.3
Gene Summary:	RNA-binding protein implicated in numerous RNA metabolic processes. Catalyzes the phosphorolysis of single-stranded polyribonucleotides processively in the 3'-to-5' direction. Mitochondrial intermembrane factor with RNA-processing exoribonuclease activity. Component of the mitochondrial degradosome (mtEXO) complex, that degrades 3' overhang double-stranded RNA with a 3'-to-5' directionality in an ATP-dependent manner. Required for correct processing and polyadenylation of mitochondrial mRNAs. Plays a role as a cytoplasmic RNA import factor that mediates the translocation of small RNA components, like the 5S RNA, the RNA subunit of ribonuclease P and the mitochondrial RNA-processing (MRP) RNA, into the mitochondrial matrix. Plays a role in mitochondrial morphogenesis and respiration; regulates the expression of the electron transport chain (ETC) components at the mRNA and protein levels. In the cytoplasm, shows a 3'-to-5' exoribonuclease mediating mRNA degradation activity; degrades c-myc mRNA upon treatment with IFNB1/IFN-beta, resulting in a growth arrest in melanoma cells. Regulates the stability of specific mature miRNAs in melanoma cells; specifically and selectively degrades miR-221, preferentially. Plays also a role in RNA cell surveillance by cleaning up oxidized RNAs. Binds to the RNA subunit of ribonuclease P, MRP RNA and miR-221 microRNA.[UniProtKB/Swiss-Prot Function]