

## Product datasheet for **MR221272**

### **Pnlc1 (NM\_001034866) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pnlc1 (NM_001034866) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pnlc1
Synonyms:	Gm313
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR221272 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGACGTGGCGCGGACGAATTTGAGCAGAGCCTTCCACTCCTGCAGGAGCTTGTGCGGGTGGCGACT  
 TCGTGGGTCTGGATATAGAGTTCACAGGTCTGCGTTCAAACCTGTCTCGGCCCAACAGATCAGTCTTTT  
 TGACTTGCCATCTGAGTGGTATCTGAAGACCCGCGCAGAGTGTTCAGCAGTTTACAATCTGTCAGATTGGA  
 TTGTCCATGTTTTCCAGCATCGAAGGAGAGTCAAACAAGTATGTAGCACACTCCTGCAATTTCTTTCTCT  
 TCCCTACAACATTTGGGATCCTGGACTCAGAGTTCTTTCCAGGCATCTAGTGTGCAGTTTCTGAATCA  
 GTATGGCTTCGACTATAACAAGTTCCTCAAAAATGGAATCCCATACATGAATGAAGAGCAGGAGAAGAAA  
 ATCAAGCACAGTATCCTAAGAGGAACTGGAGAGTCCGAAGCTCTCTGGATAAAGACCAATCAAGGTGG  
 TGATTGATAAGGTGACCCAGTGGCTGGACTGGCTGAGGAAGGTGACCAGATGACTCTGCCTGGCATCGC  
 TGGGTTCCAAGCCTTTGAGGTCCAAGTGGTGTGAGGCAGGCCCTCCCAACATCTGGACAGTGTGAAA  
 GAGGAGTGGGTGATTGTGAAGAAGGTGAGCCAGCCACAACGCTGGTACCTTGAGCACGCCTCTTGTGACC  
 AAGTCAGCTGTTGGAAGGAACAGATTCTTCTCTCTGCAAGAGGCTTCTGTCTTTTTCCAGATGTTGGT  
 GAAAGCCCAGAAGCCCTTGGTAGGACATAACATGATGATGGACCTACTGCATCTCCATGAGAAGTTCTTC  
 CGACCTCTCCAGAAAGCTATGATCAGTTTAAGCAGAACATCCATAGCCTGTTTCTGTCTCATTGACA  
 CTAGAACGTGACAAAGGACATCTGGAAGGAAGTGCCTTCCACGGGTCTCCAACCTCTTGAAGTGTA  
 CGAAGTGTGAGCAGTAACTTGAATCCCACTAAGGATTCTGGACCGGTGATTATTCACGCAAGACAGTGT  
 AAAAAATACGCTGAGACCAAGTGCCTCACGAAGCAGCCTATGACGCTTCTCTGCGGGTCAAGTTCTTT  
 TGAAGTGGCTCACTTGTCTCTGCAAGGGTGCATGGCAACGGTGTGTCACGAGCCTGCCTTCCCCCA  
 ATACCTTGATGTGCTGGCGCCTTACGTGAACCAAGTGAACCTTATCCGAGCTGGGGTCCGAAAATTAAT  
 TTTTCTGGTCCCATTACCCAGCATCCGCCCTCTGTACTCATCTCACCGTCAAGAGGTGGCCTGGGG  
 TGAGCGAGCAGCAGGTCTACCGTGAAGTCCAGAATCTCTGCAAGTTCGATGTGAGCGGTTCACTCGAAG  
 CCAGTTCCTGCTCCTGACCAATAAGTTTAAAGATGCCCGCAGTGTCTTGAAGGAGTACAGGAACCCCA  
 ACCCTGCAGGTCTCCTTGTACCGGTCTGGAGACATCCCAACATCACCTGCCTGTTACAGGTCTGCA  
 GCATAGTACCACCTGGCCATGATTGCATTTCTCTGGGAAGACCCATGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR221272 protein sequence  
 Red=Cloning site Green=Tags(s)

MDVGADEFEQSLPLLQELVAGADVFGLDIEFTGLRSNL SRPQQISLFDLPSEWYKTRQSVQQFTICQIG  
 LSMFSSIEGESNKYVAHSCNFFLPPTTFGILDSEFSFQASSVQFLNQYGFYDYNKFLKNGIPYMNEEQEKK  
 IKHSILRGNWRVRSSLDKQIKVVIDKVTQWDLAEEGDQMTLPGIAGFQAFEVQLVLRQALPNIWTVLK  
 EEWIVKVKVSPQRWYLEHASCDQVSCWKEQILL SARGFSVFFQMLVKAQKPLVGHNMMMDLLHLHEKFF  
 RPLPESYDQFKQNIHSLFPVLIDTKNVTKDIWKELRFPRVSNLLEVYEVLSNLNPTKDSGPVIIHARQC  
 KKYAETKCPHEAAYDAFLCGSVLLKVAHLLLQRVHNGAVHEPAFPQYLDVLPYVNVQVNLIRAGVPKIN  
 FSGPDYPSIRPPVILTVKRWPGVSEQQVYREFQNLCKFDVRRFTRSQFLLLTNKFKDARSVLKEYRNHP  
 TLQVSLYRSWRHSPNITCLLQVCSIVTTWAMIAFLLGRPMP

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**ACCN:** NM\_001034866

**ORF Size:** 1596 bp

**OTI Disclaimer:** 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](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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:**
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:** [NM\\_001034866.1](#), [NP\\_001030038.1](#)

**RefSeq Size:** 1689 bp

**RefSeq ORF:** 1596 bp

**Locus ID:** 240023

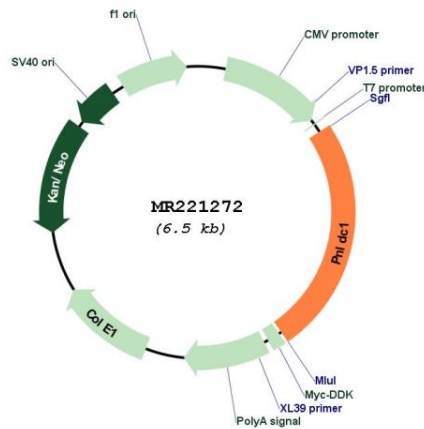
**UniProt ID:** [B2RXZ1](#)

**Cytogenetics:** 17 A1

**MW:** 61.3 kDa

**Gene Summary:** 3'-exoribonuclease that has a preference for poly(A) tails of mRNAs, thereby efficiently degrading poly(A) tails (PubMed:27515512). Exonucleolytic degradation of the poly(A) tail is often the first step in the decay of eukaryotic mRNAs and is also used to silence certain maternal mRNAs translationally during oocyte maturation and early embryonic development (PubMed:27515512). May act as a regulator of multipotency in embryonic stem cells (PubMed:27515512).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR221272