

Product datasheet for **MG221272**

Pnlc1 (NM_001034866) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pnlc1 (NM_001034866) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pnlc1
Synonyms:	Gm313
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG221272 representing NM_001034866
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACGTGGGCGCGACGAATTTGAGCAGAGCCTTCCACTCCTGCAGGAGCTTGTGCGGGTGGCGACT
 TCGTGGGTCTGGATATAGAGTTCACAGGTCTGCGTTCAAACCTGTCTCGGCCCAACAGATCAGTCTTTT
 TGACTTGCCATCTGAGTGGTATCTGAAGACCCGCGCAGAGTGTTCAGCAGTTTACAATCTGTCAGATTGGA
 TTGTCCATGTTTTCCAGCATCGAAGGAGAGTCAAACAAGTATGTAGCACACTCCTGCAATTTCTTTCTCT
 TCCCTACAACATTTGGGATCCTGGACTCAGAGTTCTTTCCAGGCATCTAGTGTGCAGTTTCTGAATCA
 GTATGGCTTCGACTATAACAAGTTCCTCAAAAATGGAATCCCATACATGAATGAAGAGCAGGAGAAGAAA
 ATCAAGCACAGTATCCTAAGAGGAACTGGAGAGTCCGAAGCTCTCTGGATAAAGACCAATCAAGGTGG
 TGATTGATAAGGTGACCCAGTGGCTGGACTGGCTGAGGAAGGTGACCAGATGACTCTGCCTGGCATCGC
 TGGGTTCCAAGCCTTTGAGGTCCAAGTGGTCTGAGGCAGGCCCTCCCAACATCTGGACAGTGTGAAA
 GAGGAGTGGGTGATTGTGAAGAAGGTGAGCCAGCCACAACGCTGGTACCTTGAGCACGCCTCTTGTGACC
 AAGTCAGCTGTTGGAAGGAACAGATTCTTCTCTCTGCAAGAGGCTTCTGTCTTTTTCCAGATGTTGGT
 GAAAGCCCAGAAGCCCTTGGTAGGACATAACATGATGATGGACCTACTGCATCTCCATGAGAAGTTCTTC
 CGACCTCTCCAGAAAGCTATGATCAGTTTAAGCAGAACATCCATAGCCTGTTTCTGTCTCATTGACA
 CTAGAACGTGACAAAGGACATCTGGAAGGAAGTGCCTTCCACGGGTCTCCAACCTCTTGAAGTGTGA
 CGAAGTGTGAGCAGTAACTTGAATCCCACTAAGGATTCTGGACCGGTGATTATTCACGCAAGACAGTGT
 AAAAAATACGCTGAGACCAAGTGCCTCACGAAGCAGCCTATGACGCTTCTCTGCGGGTCAAGTTCTTT
 TGAAAGTGGTCACTTGGCTCTGACAGGGTGCATGGCAACGGTGTGTCGACGAGCCTGCCTTCCCCCA
 ATACCTTGATGTGCTGGGCCTTACGTGAACCAAGTGAACCTTATCCGAGCTGGGGTTCGAAAAATTAAT
 TTTTCTGGTCCCATTACCCAGCATCCGCCCTCTGTACTCATCTCACCGTCAAGAGGTGGCCTGGGG
 TGAGCGAGCAGCAGGTCTACCGTGAAGTCCAGAATCTCTGCAAGTTCGATGTGAGCGGTTCACTCGAAG
 CCAGTTCTGCTCCTGACCAATAAGTTTAAAGGATGCCCGCAGTGTCTTGAAGGAGTACAGGAACACCCA
 ACCCTGCAGGTCTCCTGTACCGGTCTGGAGACATCCCAACATCACCTGCCTGTTACAGGTCTGCA
 GCATAGTACCACCTGGCCATGATTGCATTTCTCTGGGAAGACCCATGCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG221272 representing NM_001034866
 Red=Cloning site Green=Tags(s)

MDVGADEFEQSLPLLQELVAGADFVGLDIEFTGLRSNL SRPQQISLFDLPSEWYLKTRQSVQQFTICQIG
 LSMFSSIEGESNKYVAHSCNFFLPPTTFGILDSEFSFQASSVQFLNQYGFYDNKFLKNGIPYMNEEQEKK
 IKHSILRGNWRVRSLLDKDIKVVIDKVTQWLDLAEEDQMTLPGIAGFQAFEVQLVLRQALPNIWTVLK
 EEWIVVKVSPQRWYLEHASCDQVSCWKEQILL SARGFSVFFQMLVKAQKPLVGHNMMDLLHLHEKFF
 RPLPESYDQFKQNIHSLFPVLIDTKNVTKDIWKELRFPRVSNLLEVYEVLSNLNPTKDSGPVIIHARQC
 KKYAETKCPHEAAYDAFLCGSVLLKVAHLLLQRVHNGAVHEPAFPQYLDVLPYVNVQVNLIRAGVPKIN
 FSGPDYPSIRPPVILTVKRWPGVSEQQVYREFQNLCKFDVRRFTRSQFLLL TNKFKDARSVLKEYRNHP
 TLQVSLYRSWRHSPNITCLLQVCSIVTTWAMIAFLLGRPMP

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

ACCN:	NM_001034866
ORF Size:	1593 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:	<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:	NM_001034866.1 , NP_001030038.1
RefSeq Size:	1689 bp
RefSeq ORF:	1596 bp
Locus ID:	240023
UniProt ID:	B2RXZ1
Cytogenetics:	17 A1
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]