

## Product datasheet for **RC238745**

### **PNLDC1 (NM\_001271862) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PNLDC1 (NM_001271862) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PNLDC1
Synonyms:	HsPNLDC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC238745 representing NM\_001271862  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGACGTGGGCGCCGACGAGTTCGAGGAGAGCCTCCCTCTGCTGCAGGAGCTCGTCCAGGAGGCCGACT  
 TCGTGGGTCTGGACATAGAGTTCACGGGCTTCGTTCTAACCTGTCTGGGCCCCAGCAGATCAGTCTTTT  
 TGATTTGCCATCGGAGTGGTATCTAAAGACCCGTCAGAGTGTTCAGCAATTTACAGTCTGTGAGATTGGA  
 TTGTCTGTGTTTTCCGCTATTGAAGGAGAGGCAAACAAGTATATAGCCATTCTTGTAACTTCTATCTCT  
 TCCCTACAACGTTTTGGGATTTGGACTCAGAATTCCTTCCAGGCTTCCAGTGTTCAGTTTTTGAATCA  
 GTATGGCTTCAACTATAACAAGTTTCTCAAAAACGGAATCCCATATATGAATGAAGAACAGGAGAAGAAA  
 ATTAGACACGATATCCTGACTGGAACTGGAGAGTTCGCAGCTCTCCGGATAAAGACCAATCAAGGTGG  
 TGATTGACGAAGTGACCGGTGGCTGGAGCTGGCCAAGGAAGGCGACTGGATGACTTTCCTGGGATCAC  
 TGGCTTCCAGGCTTTGAGGTCCAACCTGGTGTGAGGCAGGCCCTCCCAACATCTGGACGGTGTGAAA  
 GATGAGGGGGTGGTAGTGAAGAAAGTGAAGTAAACAACATCGTTGGTATCTTCAGAACACCTTGTGACC  
 GAGAGAGCTGTTGGAAGGAAAATATTCTTCTCTCAGCAAGGGGTTTTTCTGTCTTTTCCAAATGCTGGT  
 GAAAGCCCAGAAGCCCTTAGTGGGACATAATATGATGATGGACCTGCTGCACCTCCATGAGAAGTCTTC  
 AGACCCCTCCCAGAAAGCTACGATCAATTTAAGCAGAATATCCACAGCCTATTTCTGTTCTCATTGATA  
 CCAAGAGTGTAACAAAGGATATCTGGAAGGAGATGAATTTCCCGAGGGTGTGGAATCTTTCCGGAAGTCTA  
 TGAAGTCTGAACAGTGACTTGAATCCCACCAAGAATTCTGGACCAGAGATTGTTACGCGAGCAGGTGT  
 GAGAAAATGTTGAGACAAAGTGCCCCACGAAGCCGATGATGCCTTCTCTGTGGTCACTCTTT  
 TGAAGGTGCACACTTGCTTCTACAGAAGATATACCACATCGACCCCGTCCCGAGTCACTCTTTCTCA  
 GTACCTTGACGTGCTGGCTCCTTACGTGAACCAAGTGAACCTCATCCGAGCGGGGTCCCAAAGATCAAT  
 TTTTCTGGTCCAGATTATCCAGTATCCGACCTCCCATCCTCATCTCAGCGTCAAAAGGTGGCCTGGGG  
 TCAGCGAGCAGCAAGTCTACCATAAGTTTCAAGTCTCTGCAAGTTTGTGTGAGGCGACTCACAAGAAG  
 CCAGTTCTTACTCTGACCAATAAGTTTAAAGATGCGCGGAACATCCTGAAGGAGTACCGGGACACCCG  
 ACCCTGTGCATCTCCCTGTACCGCTACTGGAGGCACTCCCAACGTCAACTGCCTGTCCAAGTCTGTG  
 GCATAGTGACTGCCTGGGCCCTTCTCGGTTTCATCCTTGAAGATCTGGTACC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC238745 representing NM\_001271862  
 Red=Cloning site Green=Tags(s)

MDVGADEFEEESLPLLQELVQEADVFGLDIEFTGLRSNLSGPQQISLFDLPSEWYKTRQSVQQFTVCQIG  
 LSVFSAIEGEANKYIAHSCNFYLFPTTFGILDSEFSFQASSVQFLNQYGFNYNKFKNKNGIPYMNEEQEKK  
 IRHDILTGNWRVRSSPDQDIKVVIDEVTRWLELAKEGDWMTLPGITGFQAFEVQLVLRQALPNIWTVLK  
 DEGVVVKVSKQHRWYLQNTSCDRESCWKENILLARGFSVFFQMLVKAQKPLVGHNMMDLLHLHEKFF  
 RPLPESYDQFKQNIHSLFPVLIDTKSVTKDIWKEMNFRVSNLSEVYEVLSNDLNPTKNSGPEIVHASRC  
 EKYYETKCPHEAAYDAFLCGSVLLKVAHLLQKIYHIDPVPESSFPQYLDVLPYVNVQVNLIRAGVPKIN  
 FSGPDYPSIRPPILILSVKRWPGVSEQQVYHKFQNLCKFDVRRLLTRSQFLLLTNKFKDARNILKEYRDHP  
 TLCISLYRYWRHSPNVNCLLQVCGIVTAWALLAFILGRSGT

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001271862

**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:**
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\\_001271862.2](#)
**RefSeq Size:** 1859 bp

**RefSeq ORF:** 1596 bp

**Locus ID:** 154197

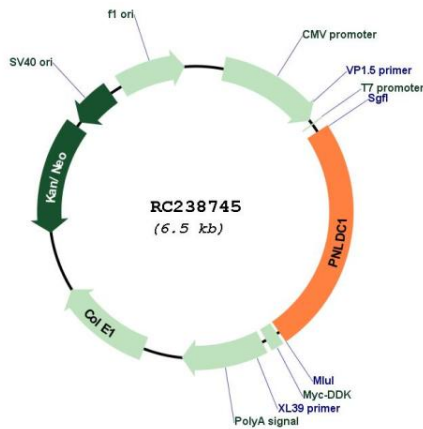
**UniProt ID:** [Q8NA58](#)

**Cytogenetics:** 6q25.3

**MW:** 61.8 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 (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RC238745