

## Product datasheet for **MR218918**

### **Papd5 (NM\_001164498) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Papd5 (NM_001164498) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Papd5
Synonyms:	5730445M16Rik; 5830428A09
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR218918 representing NM\_001164498  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCAGATCTGGGAGACGACCCAGGGGCTGAGGAACCTCTACTTCAACCACCACTGTACAGCAGCGGCG  
 CGAGCAGCGCAGCGGGAGCGGCAGCGGCCCGGCAGCCCCGGCGGCACGGCCCCGGCCCCGGCCGG  
 CATGTTCCGCTCGGGGAGCGCCCACTGGGCGGCCTCGCCGTGCCCGCGGAGCAGCGGGACTTCCTGCC  
 CTGGAGACGACCAACAACAACAATCACCACGACCGGCGGCCTGGGCACGGCGGGCATCGGCGGGCC  
 CCTCGGCGTCGCGGTCCATCGGCTCCCTCGTCCCCGCGACCGGCGGCCCACTCCCCGCTCCGAGTC  
 TACCGACCGGCCTCGGGCAGCAGCAACAAGAGAAACGTGACAACAAGGCCAGCACCTACGGACTCAAC  
 TACAGCCTGCTGCAGCCAGCGGAGGGCGCGGGCCGAGGCGGACGGCGGACGGCGGGGGCGTGT  
 ACAGCGGGACCCCGTGAAGCGACGGAACAACAGGGAGTCTGGGTCTGCATGAAGAAATCAGTGA  
 TTTTATGAGTACATGTCTCCAGACCCGAGGAAGAGAAGATGCGGATGGAGGTAGTGAGCAGGATCGAG  
 AGTGTGATTAAAGAGCTCTGGCCAGTGTGTATGTCAGATATTTGGAAGTTTTAAACTGGCCTGTATT  
 TACCTACCAGTGACATCGATCTTGTGGTGTGGGAAGTGGGAGAACCTGCCTCTCTGGACCTGGAAGA  
 AGCCCTTCGGAACACAAAGTCGCTGACGAGGATCCGTGAAAGTTCTAGACAAAGCAACGGTTCCTATT  
 ATTAATAACAGATTCTTTACTGAAGTGAAGTTGATATCAGCTTTAATGTCCAGAATGGCGTGAGAG  
 CAGCAGACCTCATTAAAGATTTTACTAAGAAATATCCTGTATTGCCATACTTGGTTTTAGTATTGAAACA  
 GTTCTTATTACAGAGGGACCTTAATGAAGTATTACAGGTGGAATTGGTCTTATAGTCTTTTTAATG  
 GCAGTCAGTTTCCCTCAGTTACATCCCAGGAAGATGCTTGCATCCCAATACAACTATGGTGTCTCT  
 TAATAGAGTTTTTTGAATTATATGGACGGCACTTCAATTAAGACTGGCATCCGGATAAAGGATGG  
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 ATCGAAGATCCTTTACAACCAGTAATGATGTTGGAAGGAGTTCCTATGGGGCCATGCAGGTGAAACAGG  
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 CTCAGCAGTTAGATAAGTGAATAATAATCTGTCTGAAGAAAAGGAGCCCTTGGAAAATGTAGAAGTAA  
 CGCCTCGGAACCTTTAGTAAACTCTTCAAACCTTTCATCAGGTCCAGTGTCTCTCTCTGCCACG  
 CAGTCCAGCTCTAGTGACGTCGATTCTGATGCAACGCCATGCAAAACCCCAAACAGCTGCTCTGCCGTC  
 CACCCACTGTACCCGGGTAGGCTCACAGGATGTCTCCTTGGAGGTCTCTCAGGCAGTTGGGAAAATGCA  
 GAGCACTCAAACCACTAACACACCCAACAACGCCAACAATCACAGCATGGATCAGCAAGGCTCTCCGT  
 TCTTCCAGCAAAGGCTTCCAAGGTACAGCTCAAACCAGCCATGGGGCCTTGATGACAAGCAAACAGCATC  
 AAGGCAATCCAATACTCAGTATTACCATGGCAAAAAGAGGAGACACAAGAGGGACGCGCCCTCTCAGA  
 GCTTTGTAGA

**ACGCGT**ACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR218918 representing NM\_001164498  
Red=Cloning site Green=Tags(s)

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MQIWETTQGLRNLYFNHHCHSSGASSASGGSGSGPGSPGGTAPAPAGMFRSGERPLGGLAVPAEQRDFLP
LETTNNNNHHQPAAWARRASAGPSASPVPSPAPSSPRPAAALPASESTDPASGSSNKRRDNKASTYGLN
YSLQLPSSGGRADGGGGVYSGTPWKRRNYNQGVGLHEEISDFYEYMSRPEEEKMRMEVVSRIE
SVIKELWPSADVQIFGSFKTGLYLPTSDIDL VVFGKWENLPLWTLEEALRKHKVADEDSVKVLDKATVPI
IKLTDSFTEVKVDISFNQNGVRAADLIKDFTKKYPVLPYLVLVLKQFLLRDLNEVFTGGIGSYSLFLM
AVSFLQLHPREDACIPNTNYGVLLIEFFELYGRHFNYLKTGIRIKDGGSYVAKDEVQKNMLDGYRPSMLY
IEDPLQPGNDVGRSSYGAMQVKQAFDYAVVLSHAVSPIAKYYPNNETESILGRIIRVTDEVATYRDWIS
KQWGLQNRPEPSCNGVTLIVDTQQLDKCNNLSEEKEALGKCRSNASEPLSKHSSNSSGVPVSSSAT
QSSSDVSDATPCKTPKQLLCPPTVTRVGSQDVSLEVSQAVGKMQSTQTTNTPNNANKSQHGSARLFR
SSSKGFQGTAAQTSHGALMTSKQHKGKSNQYYHGKRRRHKRDAPLSELCR
    
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001164498

**ORF Size:** 2040 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\\_001164498.1](#), [NP\\_001157970.1](#)

**RefSeq Size:** 4616 bp

**RefSeq ORF:** 2043 bp

**Locus ID:** 214627

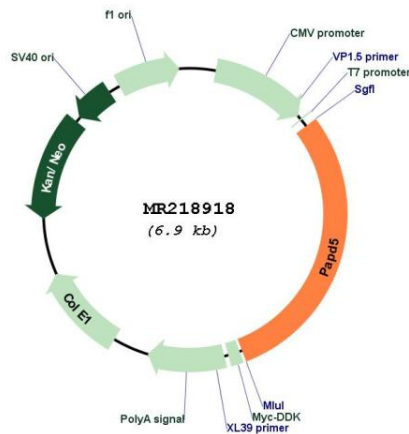
**UniProt ID:** [Q68ED3](#)

**Cytogenetics:** 8 C3

**MW:** 74.7 kDa

**Gene Summary:** Terminal nucleotidyltransferase that catalyzes preferentially the transfert of ATP and GTP on RNA 3' poly(A) tail creating a heterogeneous 3' poly(A) tail leading to mRNAs stabilization by protecting mRNAs from active deadenylation (By similarity). Also functions as a catalytic subunit of a TRAMP-like complex which has a poly(A) RNA polymerase activity and is involved in a post-transcriptional quality control mechanism. Polyadenylation with short oligo(A) tails is required for the degradative activity of the exosome on several of its nuclear RNA substrates. Doesn't need a cofactor for polyadenylation activity (in vitro). Plays a role in replication-dependent histone mRNA degradation, probably through terminal uridylation of mature histone mRNAs. May play a role in sister chromatid cohesion (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR218918