

## Product datasheet for **MR219852**

### **Papd7 (NM\_198600) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Papd7 (NM_198600) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Papd7
Synonyms:	LAK-1; POLK; Pols; TRF4; TRF4-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR219852 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCCTTGTCTGAAGAAGCAGCCATGAGAAGGGAGGTGGTAAACGGATCGAAACTGTGGTAAAAG  
 ACCTCTGGCCACAGCTGATGTGCAGATATTTGGCAGCTTAGTACAGGCCTCTATCTTCCAACAAGTGA  
 CATAGACCTGGTTGTCTTTGAAAAGTGGGAACGCCCTCCATTACAGTTGTTGGAACAAGCCCTCCGGAAG  
 CACAACGTGGCTGAGCCGTGCTCCATCAAAGTTCTTGACAAAGCTACAGTGCCCATATAAAGCTCACAG  
 ATCAGGAGACTGAAGTTAAAGTCGACATCAGCTTAAACATGGAGACTGGCGTGCGGGCGGCAGAGTTCAT  
 CAAGAATTACATGAAGAAGTACTCGCTACTGCCATACTTGATTTTAGTGTGAAACAGTTCCTGCTGCAG  
 AGGGACCTGAATGAGGTCTTACAGGGGGATCAGCTCTACAGCCTCATCCTAATGGCCATCAGCTTTC  
 TGCAGTTACATCCAAGAATCGATGCCCGGAGAGCTGATGAAAACCTGGGAATGCTTCTTGAGAATTTT  
 TGAACCTTATGGAAGAAATTTAATTACTTAAAACTGGTATTAGAATAAAAAGAAGGAGGTGCCATATC  
 GCCAAAGAAGAGATCATGAAAGCCATGACCAGTGGGTACCGACCATCGATGCTGTGCATTGAGGACCCCT  
 TACTGCCTGGAATGATGTTGGACGGAGTTCCTATGGGGCCATGCAGGTGAAGCAGGTGTTTGACTACGC  
 TTACATTTGTGCTCAGCCACGCTGTGTACCCGCTCGCCAGGTCTTACCCCAACAGGGATTCTGAAAGTACT  
 TTAGGAAGAATCATCAAAGTCACCCAGGAAGTGATCGACTACCGGAGGTGGATCAAAGAAAAGTGGGGTA  
 GCAGAATCCTCCCGTCTCCAGACCTTGACAACAGGATTAAGATAAAGGAGAGAATTACCAGTGCAATGG  
 GGAGCAGATGCAGAGCCGGGAGCCAGCTCCCTTACACCCAGCGCTGACTCTGTCCCTGTCCAGTCCC  
 CAGCTGCTGTCTTCAAGCTCTTCTGCTTCTGTGTCTCACTTCTGGAAGTGACATTGACTCCGACA  
 CACCCGCTGCACACACCCAGTGTTCAGTTCAGCCTGCAAGCACCCACTACCCTGATGGCCAGCCT  
 GCCCACAGCCTTGCCAATGCCAGCAGCAAACCCAGCCTGCTGCTTCCAGAACGTTGATCATGACAACA  
 AACACCAGACCAGGTTACTATCCCTCCACCAACCCTCGGAGTCGCCCTGTTCTTGCAGACAGGCTG  
 GTGTCGACGGAACCACATCTTTGAAGGCTGTTACAGTGTAACTTCCCCAGCCATTCCCTCGGCATCCCC  
 CAACCCACTGTCTAGTCTCATCTGTATCACAAGCAGCACAATGGCATGAAACTGTCCATGAAAGGCTCC  
 CACAACCACACTCAGGGTGGCGGTACAGCTCTGTGGCAGTGGAGCTGTGAGGCCTCTGTAGGCAACC  
 GAGGACATCATCAGTACAACCGCACCGGCTGGAGGAGAAAAAAGCACGCACACAAGGGACAGCCTGCC  
 CGTGAGTCTCAGCAGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR219852 protein sequence  
 Red=Cloning site Green=Tags(s)

MSPCPPEEAAMRREVVKRIETVVKDLWPTADVQIFGSFSTGLYLPTSDIDLVVFGKWERPPLQLLEQALRK  
 HNVAEPCSIKVLDKATVPIIKLTDQETEVKVDISFNMETGVRAAEFIKKNYMKYSLLPYLILVLKQFLLQ  
 RDLNEVFTGGISSYSLILMAISFLQLHPRIDARRADENLGMILLVEFFELYGRNFNYLKTGIRIKEGGAYI  
 AKEEIMKAMTSGYRPSMLCIEDPLLPNDVGRSSYGAMQVKQVFDYAYIVL SHAVSPLARSYPNRDSEST  
 LGRIIKVTQEVIDYRRWIKEKWSRILPSPDLNRIKIKERITTCNQEQQMSREPSSPYTQRLTLSSP  
 QLLSSGSSASSVSSLSGSDIDSPTTPCTTPSVYQFSLQAPTTLMASLPTALPMPSSKQPAAASRTLIMTT  
 NNQTRVTIPPTLGVAPVPCRQAGVDGTTSLKAVHSVTSIPAIPASPNPLSSPHLYHKQHNGMKLSMKGS  
 HNHTQGGYSSVSGAVRPPVGNRGHHQYNRTGWRRKKHAHTRDSLPLVLSLR

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**ACCN:** NM\_198600

**ORF Size:** 1626 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\\_198600.2](#), [NP\\_941002.2](#)

**RefSeq Size:** 4017 bp

**RefSeq ORF:** 1629 bp

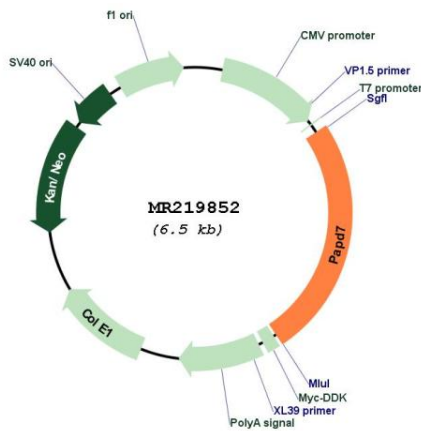
**Locus ID:** 210106

**UniProt ID:** [Q6PB75](#)

**Cytogenetics:** 13 35.55 cM  
**MW:** 60 kDa

**Gene Summary:** Terminal nucleotidyltransferase that catalyzes preferentially the transfer 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. Has no terminal uridylyltransferase activity, and does not play a role in replication-dependent histone mRNA degradation via uridylation (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR219852