

Product datasheet for **MG219852**

Papd7 (NM_198600) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Papd7 (NM_198600) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Papd7
Synonyms:	LAK-1; POLK; Pols; TRF4; TRF4-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG219852 representing NM_198600
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCTTGTCTGAAGAAGCAGCCATGAGAAGGGAGGTGGTAAACGGATCGAAACTGTGGTAAAG
 ACCTCTGGCCACAGCTGATGTGCAGATATTTGGCAGCTTAGTACAGGCCTCTATCTTCCAACAAGTGA
 CATAGACCTGGTTGTCTTTGAAAGTGGGAACGCCCTCCATTACAGTTGTTGGAACAAGCCCTCCGGAAG
 CACAACGTGGCTGAGCCGTGCTCCATCAAAGTTCTTGACAAAGCTACAGTGCCCATATAAAGCTCACAG
 ATCAGGAGACTGAAGTTAAAGTCGACATCAGCTTAAACATGGAGACTGGCGTGCGGGCGGCAGAGTTCAT
 CAAGAATTACATGAAGAAGTACTCGCTACTGCCATACTTGATTTTAGTGTGAAACAGTTCCTGCTGCAG
 AGGGACCTGAATGAGGTCTTACAGGGGGATCAGCTCTACAGCCTCATCTAATGGCCATCAGCTTTC
 TGCAGTTACATCCAAGAATCGATGCCCGGAGAGCTGATGAAAACCTGGGAATGCTTCTTGAGAATTTT
 TGAACCTTATGGAAGAAATTTAATTACTTAAAACTGGTATTAGAATAAAAAGAAGGAGGTGCCTATATC
 GCCAAAGAAGAGATCATGAAAGCCATGACCAGTGGGTACCGACCATCGATGCTGTGCATTGAGGACCCCT
 TACTGCCTGGAATGATGTTGGACGGAGTTCCTATGGGGCCATGCAGGTGAAGCAGGTGTTTGACTACGC
 TTACATTTGTGCTCAGCCACGCTGTGTACCCGCTCGCCAGGTCTTACCCCAACAGGGATTCTGAAAGTACT
 TTAGGAAGAATCATCAAAGTCACCCAGGAAGTGATCGACTACCGGAGCGGATCAAAGAAAAGTGGGGTA
 GCAGAATCCTCCCGTCTCCAGACCTTGACAACAGGATTAAGATAAAGGAGAGAATTACCACGTGCAATGG
 GGAGCAGATGCAGAGCCGGGAGCCAGCTCCCTTACACCCAGCGCTGACTCTGTCCCTGTCCAGTCCC
 CAGCTGCTGTCTTCAAGCTCTTCTGCTTCTTGTGTCTCACTTCTGGAAGTGACATTGACTCCGACA
 CACCCGCTGCACCACCCAGTGTATCAGTTCAGCCTGCAAGCACCCACTACCCTGATGGCCAGCCT
 GCCCACAGCCTTGCCAATGCCAGCAGCAAAACCCAGCCTGCTGTCTCCAGAACGTTGATCATGACAACA
 AACAAACAGACCAGGTTACTATCCCTCCACCAACCCTCGGAGTCGCCCTGTTCTTGCAGACAGGCTG
 GTGTCGACGGAACCACATCTTTGAAGGCTGTTACAGTGTAACTTCCCCAGCCATTCCCTCGGCATCCCC
 CAACCCACTGTCTAGTCTCATCTGTATCACAAGCAGCACAATGGCATGAAACTGTCCATGAAAGGCTCC
 CACAACCACACTCAGGTGGCGGTACAGCTCTGTGGCAGTGGAGCTGTGAGGCCTCTGTAGGCAACC
 GAGGACATCATCAGTACAACCGCACCGGCTGGAGGAGAAAAAAGCACGCACACAAGGGACAGCCTGCC
 CGTGAGTCTCAGCAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG219852 representing NM_198600
 Red=Cloning site Green=Tags(s)

MSPCPPEEAAMRREVVKRIETVVKDLWPTADVQIFGSFSTGLYLPTSDIDLVVFGKWERPPLQLLEQALRK
 HNVAEPCSIKVLDKATVPIIKLTDQETEVKVDISFNMETGVRAAEFIKKNYMKYSLLPYLILVLKQFLLQ
 RDLNEVFTGGISSYSLILMAISFLQLHPRIDARRADENLGMILLVEFFELYGRNFNLYKGTIRIKEGGAYI
 AKEEIMKAMTSGYRPSMLCIEDPLLPNDVGRSSYGAMQVKQVFDYAYIVL SHAVSPLARSYPNRDSEST
 LGRIIKVTQEVIDYRRRIKEKWSRILSPDLNRIKIKERITTCNGEQMSREPSSPYTQRLTSLSSP
 QLLSSGSSASSVSSLSGSDIDSPTTPCTTPSVYQFSLQAPTTLMASLPTALPMPSSKQPAAASRTLIMTT
 NNQTRVTPPPTLGVAPVPCRQAGVDGTTSLKAVHSVTSIPAIPASPNPLSSPHLYHKQHNGMKLSMKGS
 HNHTQGGYSSVSGAVRPPVGNRHHQYNRGTGWRKKHAHTRDSLPLVSLSR

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

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_198600.1](#)

RefSeq Size: 4017 bp

RefSeq ORF: 1629 bp

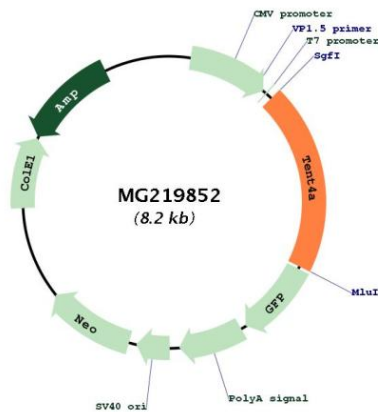
Locus ID: 210106

UniProt ID: [Q6PB75](#)

Cytogenetics: 13 35.55 cM

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 MG219852