

Product datasheet for **MG218918**

Papd5 (NM_001164498) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Papd5 (NM_001164498) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Papd5 |
| Synonyms: | 5730445M16Rik; 5830428A09 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>MG218918 representing NM_001164498
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCAGATCTGGGAGACGACCCAGGGGCTGAGGAACCTCTACTTCAACCACCCTGTACAGCAGCGGCG
 CGAGCAGCGGAGCGGGAGCGGCAGCGGCCCGGCAGCCCCGGCGGCACGGCCCCGGCCCCGGCCGG
 CATGTTCCGCTCGGGGAGCGCCCACTGGGCGGCCTCGCCGTGCCCGCGGAGCAGCGGGACTTCCTGCC
 CTGGAGACGACCAACAACAACAATCACCACCAGCGGCGGCCTGGGCACGGCGGGCATCGGCGGGCC
 CCTCGGCGTCCCGGTCCCATCGGCTCCCTCGTCCCCGCGACCGGCGGCCCACTCCCCGCTCCGAGTC
 TACCGACCCGGCCTCGGGCAGCAGCAACAAGAGAAACGTGACAACAAGGCCAGCACCTACGGACTCAAC
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 ACAGCGGGACCCCGTGAAGCGACGGAACAACAGGAGTCTGTTGGTCTGCATGAAGAAATCAGTGA
 TTTTTATGAGTACATGTCTCCAGACCCGAGGAAGAGAAGATGCGGATGGAGGTAGTGAGCAGGATCGAG
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 AGCCCTTCGGAACACAAAGTCGCTGACGAGGATCCGTGAAAGTTCTAGACAAAGCAACGGTTCCTATT
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 CTCAGCAGTTAGATAAGTGAATAATAATCTGTCTGAAGAAAAGGAGCCCTTGGAAAATGTAGAAGTAA
 CGCCTCGAACCTCTTAGTAAACTCTTCAAACCTTTCATCAGGTCCAGTGTCTCTCTCTGCCAGC
 CAGTCCAGCTCTAGTGACGTCGATTCTGATGCAACGCCATGCAAAACCCCAACAGCTGCTCTGCCGTC
 CACCCACTGTACCCGGGTAGGCTCACAGGATGTCTCCTTGGAGGTCTCTCAGGCAGTTGGGAAAATGCA
 GAGCACTCAAACCACTAACACACCCAACAACGCCAACAATCACAGCATGGATCAGCAAGGCTCTCCGT
 TCTTCCAGCAAAGGCTTCCAAGGTACAGCTCAAACCAGCCATGGGGCCTTGATGACAAGCAAACAGCATC
 AAGGCAAATCCAATACTCAGTATTACCATGGCAAAAAGAGGAGACACAAGAGGGACGCGCCCTCTCAGA
 GCTTTGTAGA

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG218918 representing NM_001164498
Red=Cloning site Green=Tags(s)

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MQIWETTQGLRNLYFNHHCHSSGASSASGGSGSGPGSPGGTAPAPAGMFRSGERPLGGLAVPAEQRDFLP
LETTNNNNHHQPAAWARRASAGPSASPVPSPAPSSPRPAAALPASESTDPASGSSNKRKRDNKASTYGLN
YSLQLPSGGRAAGGRADGGGGVYSGTPWKRRNYNQGVGLHEEISDFEYMSPRPEEEKMRMEVVSRIE
SVIKELWPSADVQIFGSFKTGLYLPTSDIDL VVFGKWENLPLWTL EEALRKHKVADEDSVKVLDKATVPI
IKLTDSFTEVKVDISFNVQNGVRAADLIKDFTKKYPVLPYLVLVLKQFL LQRDLNEVFTGGIGSYSLFLM
AVSFLQLHPREDACIPNTNYGVLLIEFFELYGRHFNYLKTGIRIKDGGSYVAKDEVQKNMLDGYPMSLY
IEDPLQPGNDVGRSSYGAMQVKQAFDYAYVVL SHAVSPIAKYYPNNETESILGRIIRVTDEVATYRDWIS
KQWGLQNRPEPSCNGVTLIVDTQQLDKC>NNLSEEKEALGKCRSNASEPLSKHSSNSSGPGVSSSSAT
QSSSDVSDATPCKTPKQLL CRPPTVTRVGSQDVSLEVSQAVGKMQSTQTNTNPNNANKSQHGSARLFR
SSSKGFQGT AQTSHGALMTSKQH QGKSNTQYYHGKRRRHKRDAPLSELCR
    
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TRTRPLE - GFP Tag - V

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

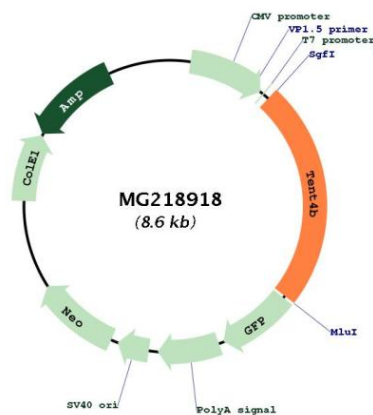
Locus ID: 214627

UniProt ID: [Q68ED3](#)

Cytogenetics: 8 C3

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. 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 MG218918