

Product datasheet for **MR216502**

Papd5 (NM_001164499) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Papd5 (NM_001164499) 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:

>MR216502 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTTCCGCTCGGGGAGCGCCACTGGCGGCCTCGCCGTGCCCGGGAGCAGCGGGACTTCTGCCCC
 TGGAGACGACCAACAACAACAACATCACCACCAGCCGGCGGCCTGGGCACGGCGGCATCGGGCGGCC
 CTCGGCGTCGCCGTCATCGGCTCCCTCGTCCCGCGACCGCGGCCCACTCCCCGCTCCGAGTCT
 ACCGACCCGGCTCGGGCAGCAGCAACAAGAGGAAACGTGACAACAAGGCCAGCACCTACGGACTCAACT
 ACAGCCTGCTGCAGCCAGCGGAGGGCGCGGCCGGAGCGGACGGCGGACGGCGGGGGCGTGTA
 CAGCGGGACCCCGTGAAGCGACGGAACACAACCAGGGAGTCTGGGTCTGCATGAAGAAATCAGTGAT
 TTTTATGAGTACATGTCTCCAGACCCGAGGAAGAGAAGATGCGGATGGAGGTAGTGAGCAGGATCGAGA
 GTGTGATTAAGAGCTCTGGCCAGTGTGATGCCAGATATTTGGAAGTTTTAAACTGGCCTGTATTT
 ACCTACCAGTGACATCGATCTTGTGGTGTGGGAAGTGGGAGAACCTGCCTCTCTGGACCTGGAAGAA
 GCCCTTCGAAACACAAAGTCGCTGACGAGGATTCCTGAAAAGTTCTAGACAAAGCAACGGTTCCTATTA
 TAAATTAACAGATTTCTTTACTGAAGTAAAAGTTGATATCAGCTTAAATGTCCAGAATGGCGTGAGAGC
 AGCAGACCTCATTAAAGATTTTACTAAGTTACATCCCAGGGAAGATGCTTGCATCCCAATACAACTAT
 GGTGTTCTCTTAATAGAGTTTTTGAATTATATGGACGGCACTTCAATTACTTAAAGACTGGCATCCGGA
 TAAAGGATGGTGGTTCCTATGTGGCCAAAGATGAAGTACAGAAAAATATGCTTGTAGGCTACCGGCCGTC
 AATGCTTTATATCGAAGATCCTTTACAACCAGGTAATGATGTTGGAAGGAGTTCCTATGGGGCCATGCAG
 GTGAAACAGGCCTTTGATTATGCCTATGTGGTATTGAGTCATGCAGTGCACCGATTGCAAAGTACTATC
 CCAACAATGAAACAGAGAGCATATTAGGTAGAATAATTAGAGTGACGGATGAAGTTGCCAGTATAGATA
 TTGGATATCAAAACAGTGGGGCTTGAGAAATAGGCCCGAGCCATCATGCAACGAAATGGTGTTACCTTG
 ATAGTAGATACTCAGCAGTTAGATAAGTGAATAATAATCTGTCTGAAGAAAAGGAGCCCTTGGAAAAAT
 GTAGAAGTAAACGCTCGGAACCTCTTAGTAAACACTCTTCAAACCTTTCATCAGGTCCAGTGTCTCCTC
 CTCTGCCACGCAGTCCAGCTCTAGTGACGTCGATTCTGATGCAACGCCATGCAAAACCCCAACAGCTG
 CTCTGCCGTCCACCCACTGTACCCGGGTAGGCTCACAGGATGTCTCCTTGGAGGTCTCTCAGGCAGTTG
 GAAAAATGCAGAGCACTCAAACCACTAACACACCAACAACGCCAACAATCACAGCATGGATCAGCAAG
 GCTCTCCGTTCTCCAGCAAAGGCTTCAAGGTACAGCTCAAACAGCCATGGGGCCTTGATGACAAGC
 AAACAGCATCAAGGCAAATCCAATACTCAGTATTACCATGGCAAAAAGAGGAGACACAAGAGGGACGCGC
 CCTCTCAGAGCTTTGTAGA

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR216502 protein sequence
 Red=Cloning site Green=Tags(s)

MFRSGERPLGGLAVPAEQRDFLPLETTNNNNHHQPAAWARRASAGPSASPVPSAPSSPRPAAALPASES
 TDPASGSSNKRKRDNKASTYGLNYLLQPSGGRAAGGGRADGGGGVYSGTPWKRRNRYNQVVGLHEEISD
 FYEYMSRPEEEKMRMEVVSRIESVIKELWPSADVQIFGSKTGLYLPTSDIDL VVFGKWENLPLWTL EE
 ALRKHKVADEDSVKVLDKATVPIIKL TDSFTEVKVDISFNVQNGVRAADLIKDFTKLHPREDACIPNTNY
 GVLLIEFFELYGRHFNYLKTGIRIKDGGSYVAKDEVQKNMLDGYRPSMLYIEDPLQPGNDVGRSSYGAMQ
 VKQAFDYAYVVL SHAVSPIAKYYPNNETESILGRIIRVTDEVATYRDWISKQWGLQNRPEPSCNGNGVTL
 IVDTQQLDKCNNLSEEKEALGKCRSNAEPLSKHSSNSSSGPVSSSSATQSSSSDVSDATPCKTPKQL
 LCRPPTVTRVGSQDVSLEVSQAVGKMQSTQTNTNPNANKSQHGSARLFRSSSKGFQGTATSHGALMTS
 KQHQGSNTQYYHGKRRRHRDAPLSEL CR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001164499

ORF Size: 1773 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_001164499.1](#), [NP_001157971.1](#)

RefSeq Size: 4513 bp

RefSeq ORF: 1914 bp

Locus ID: 214627

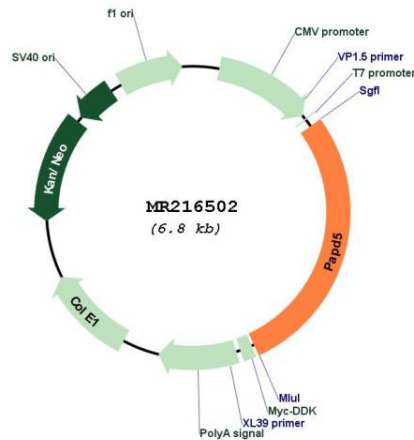
UniProt ID: [Q68ED3](#)

Cytogenetics: 8 C3

MW: 64.8 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 MR216502