

Product datasheet for **MC220455**

Papd5 (NM_001164497) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Papd5 (NM_001164497) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Papd5
Synonyms:	5730445M16Rik; 5830428A09
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC220455 representing NM_001164497
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAGATCTGGGAGACGACCCAGGGGCTGAGGAACCTCTACTTCAACCACCCTGTACAGCAGCGGCG
 CGAGCAGCGCAGCGGGAGCGGCAGCGGCCCGGCAGCCCGCGGCACGGCCCGGCCCGGCCGCG
 CATGTTCCGCTCGGGGAGCGCCACTGGCGGCCCTCGCCGTGCCCGCGAGCAGCGGGACTTCCTGCC
 CTGGAGACGACCAACAACAACAATCACCACCAGCGCGGCCTGGGCACGGCGGGCATCGCGGGCC
 CCTCGCGTCCCGGTCCATCGCTCCCTCGTCCCGCGACCGCGGCCCACTCCCGCCTCCGAGTC
 TACCGACCGGCCTCGGCAGCAGCAACAAGAGAAACGTGACAACAAGGCCAGCACCTACGGACTCAAC
 TACAGCCTGCTGCAGCCAGCGGAGGGCGCGGGCCGAGGCGGACGGCGGACGGCGGGGGCGTGT
 ACAGCGGGACCCGTTGAAGCGACGGAACAACAGGGAGTCTGGGTCTGCATGAAGAAATCAGTGA
 TTTTATGAGTACATGTCTCCAGACCCGAGGAAGAGAAGATGCGGATGGAGGTAGTGAGCAGGATCGAG
 AGTGTGATTAAAGAGCTCTGGCCAGTGTGTATGTCAGATATTTGGAAGTTTTAAACTGGCCTGTATT
 TACCTACCAGTGACATCGATCTTGTGGTGTGGGAAGTGGGAGAACCTGCCTCTCTGGACCTGGGAAG
 AGCCCTTCGGAACACAAAGTCGCTGACGAGGATCCGTGAAAGTTCTAGACAAAGCAACGGTTCCTATT
 ATTAATAACAGATTCTTTACTGAAGTGAAGTTGATATCAGCTTTAATGTCCAGAATGGCGTGAGAG
 CAGCAGACCTCATTAAAGATTTACTAAGAAATATCCTGTATTGCCATACTTGGTTTTAGTATTGAAACA
 GTTCTTATTACAGAGGGACCTTAATGAAGTATTACAGGTGGAATTGGTCTTATAGTCTTTTTAATG
 GCAGTCAGTTTCTTCAGTTACATCCCAGGAAGATGCTTGCATCCCAATACAACTATGGTGTCTCT
 TAATAGAGTTTTTTGAATTATATGGACGGCACTTCAATTACTTAAAGACTGGCATCCGGATAAAGGATGG
 TGGTTCCTATGTGGCAAAGATGAAGTACAGAAAAATATGCTTGATGGCTACCGGCCGTCATGCTTTAT
 ATCGAAGATCCTTTACAACCAGTAATGATGTTGGAAGGAGTTCCTATGGGGCCATGCAGGTGAAACAGG
 CCTTTGATTATGCCTATGTGGTATTGAGTCATGCAGTGTACCGATTGCAAAGTACTATCCCAACAATGA
 AACAGAGAGCATATTAGGTAGAATAATTAGAGTGACGGATGAAGTTGCCACGTATAGAGATTGGATATCA
 AAACAGTGGGGCTTGCAGAATAGGCCGAGCCATCATGCAACGGAAATGGTGTACCTTGATAGTAGATA
 CTCAGCAGTTAGATAAGTGAATAATAACTGTCTGAAGAAAAGGAAGCCCTTGGAAAATGTAGAAGTAA
 CGCCTCGGAACCTCTTAGTAAACTCTTCAAACCTTTCATCAGGTCCAGTGTCTCTCTCTGCCACG
 CAGTCCAGCTCTAGTGACGTCGATTCTGATGCAACGCCATGCAAAACCCCAACAGCTGCTCTGCCGTC
 CACCCACTGTACCCGGTAGGCTCACAGGATGTCTCTTGGAGGTCTCTCAGGCAGTTGGGAAAATGCA
 GAGCACTCAAACCACTAACACACCCAACACGCAACAAATCACAGCATGGATCAGCAAGGCTCTCCGT
 TCTTCCAGCAAAGGCTTCCAAGGTACAGCTCAAACCAGCCATGGGGCCTTGATGACAAGCAAACAGCATC
 AAGGCAAATCCAATACTCAGTATTACCATGGCAAAAAGAGGAGACACAAGAGGGACGCGCCCTCTCAGA
 GCTTTGTAGTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001164497
- Insert Size:** 2043 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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_001164497.1](#), [NP_001157969.1](#)

RefSeq Size: 4642 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]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (a). Both variants 1 and 2 encode the same isoform.