

## Product datasheet for **MG216502**

### **Papd5 (NM\_001164499) Mouse Tagged ORF Clone**

#### **Product data:**

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

>MG216502 representing NM\_001164499  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTTCCGCTCGGGGAGCGCCACTGGGCGGCCTCGCCGTGCCCGGGAGCAGCGGGACTTCTGCCCC  
 TGGAGACGACCAACAACAACAACATCACCACCAGCCGGCGGCCTGGGCACGGCGGCATCGGGCGGCC  
 CTCGGCGTCGCCGTCATCGGCTCCCTCGTCCCGCGACCGCGGCCCACTCCCGCCTCCGAGTCT  
 ACCGACCCGGCCTCGGGCAGCAGCAACAAGAGGAAACGTGACAACAAGGCCAGCACCTACGGACTCAACT  
 ACAGCCTGCTGCAGCCAGCGGAGGGCGCGGCCGGAGCGGACGGGCGGACGGCGGGGGCGTGTA  
 CAGCGGGACCCCGTGAAGCGACGGAACAACAGGGAGTCTGGGTCTGCATGAAGAAATCAGTGAT  
 TTTTATGAGTACATGTCTCCAGACCCGAGGAAGAGAAGATGCGGATGGAGGTAGTGAGCAGGATCGAGA  
 GTGTGATTAAGAGCTCTGGCCAGTGTGATGCCAGATATTTGGAAGTTTTAAACTGGCCTGTATTT  
 ACCTACCAGTGACATCGATCTTGTGGTGTGGGAAGTGGGAGAACCTGCCTCTCTGGACCTGGAAGAA  
 GCCCTTCGAAACACAAAGTCGCTGACGAGGATTCCTGAAAAGTTCTAGACAAAGCAACGGTTCCTATTA  
 TAAATTAACAGATTTCTTTACTGAAGTAAAAGTTGATATCAGCTTTAATGTCCAGAATGGCGTGAGAGC  
 AGCAGACCTCATTAAAGATTTTACTAAGTTACATCCCAGGGAAGATGCTTGCATCCCAATACAACTAT  
 GGTGTTCTCTTAATAGAGTTTTTGAATTATATGGACGGCACTTCAATTACTTAAAGACTGGCATCCGGA  
 TAAAGGATGGTGGTTCCTATGTGGCCAAAGATGAAGTACAGAAAAATATGCTTGTGGTACCGGCCGTC  
 AATGCTTTATATCGAAGATCCTTTACAACCAGGTAATGATGTTGGAAGGAGTTCCTATGGGGCCATGCAG  
 GTGAAACAGGCCCTTTGATTATGCCTATGTGGTATTGAGTATGACGATGTCACCGATTGCAAAGTACTATC  
 CCAACAATGAAACAGAGAGCATATTAGGTAGAATAATTAGAGTACGGATGAAGTTGCCAGTATAGAGA  
 TTGGATATCAAAAACAGTGGGGCTTGCAGAATAGGCCCGAGCCATCATGCAACGGAATGGTGTACCTTG  
 ATAGTAGATACTCAGCAGTTAGATAAGTGAATAATAATCTGTCTGAAGAAAAGGAGCCCTTGGAAAAAT  
 GTAGAAGTAAACGCTCGGAACCTCTTAGTAAACACTCTTCAAACCTCTTCAATCAGGTCCAGTGTCTCTCT  
 CTCTGCCACGCAGTCCAGCTCTAGTGACGTCGATTCTGATGCAACGCCATGCAAAACCCCAACAGCTG  
 CTCTGCCGTCCACCCACTGTACCCGGGTAGGCTCACAGGATGTCTCCTTGGAGGTCTCTCAGGCAGTTG  
 GAAAAATGCAGAGCACTCAAACCACTAACACACCCAACAACGCCAACAATCACAGCATGGATCAGCAAG  
 GCTCTCCGTTCTCCAGCAAAGGCTTCAAGGTACAGCTCAAACAGCCATGGGGCCTTGTATGACAAGC  
 AAACAGCATCAAGGCAAATCCAATACTCAGTATTACCATGGCAAAAAGAGGAGACACAAGAGGGACGCGC  
 CCCTCTCAGAGCTTTGTAGA

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**

**Protein Sequence:**

>MG216502 representing NM\_001164499  
 Red=Cloning site Green=Tags(s)

MFRSGERPLGGLAVPAEQDFLPLETTNNNNHHQPAAWARRASAGPSASPVPSAPSSPRPAAALPASES  
 TDPASGSSNKRKRDNKASTYGLNYLLQPSGGRAAGGGRADGGGGVYSGTPWKRRNYNQGVVGLHEEISD  
 FYEYMSRPEEEKMRMEVVSRIESVIKELWPSADVQIFGSFKTGLYLPTSDIDL VVFGKWLNLPLWTL EE  
 ALRKHKVADEDSVKVLDKATVPIIKL TDSFTEVKVDISFNQNGVRAADLIKDFTKLHPREDACIPNTNY  
 GVLLIEFFELYGRHFNYLKTGIRIKDGGSYVAKDEVQKNMLDGYRPSMLYIEDPLQPGNDVGRSSYGAMQ  
 VKQAFDYAYVVL SHAVSPIAKYYPNNETESILGRIIRVTDEVATYRDWISKQWGLQNRPEPSCNGNGVTL  
 IVDTQQLDKCNNNLSEEKEALGKCRSNA SEPLSKHSSNSSSGPVSSSSATQSSSSDVSDATPCKTPKQL  
 LCRPPTVTRVGSQDVSLEVSQAVGKMSTQTNTNPNANKSQHGSARLFRSSSKGFQGTATSHGALM TS  
 KQHQGKSNTQYHGGKRRHRKRDAPLSEL CR

**TRTRPLE - GFP Tag - V**

**Restriction Sites:**

Sgfl-MluI



<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_001164499.1</a> , <a href="#">NP_001157971.1</a>
<b>RefSeq Size:</b>	4513 bp
<b>RefSeq ORF:</b>	1914 bp
<b>Locus ID:</b>	214627
<b>UniProt ID:</b>	<a href="#">Q68ED3</a>
<b>Cytogenetics:</b>	8 C3
<b>Gene Summary:</b>	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]