

## Product datasheet for **RG213918**

### **PAPOLG (NM\_022894) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PAPOLG (NM_022894) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PAPOLG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>RG213918 representing NM\_022894  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGAAAGAGATGTCTGCAAAACCGTGTCTGGACAGCCAGCGTCAACAAAAGCATTATGGAATTACCTCCC  
CAATTAGTTTGGCATCTCTAAAGAAATTGATCATATTTACACACAGAAATTAATTGACGCCATGAAACC  
ATTTGGAGTGTGTTGAAGATGAGGAAGAATTGAACCACAGGCTGGTGGTTCTTGGTAAATTGAACAATTTA  
GTAAAAGAATGGATTTCTGATGTCAGCGAGAGTAAGAACCCTCCACCTTCTGTTGTGGCTACTGTTGGTG  
GTAAAATTTTACATTTGGATCTATAGGCTTGGAGTACACACAAAGGAGCTGACATTGATGCACTTTG  
TGTAGCTCCAAGACATGTGAAAGATCTGATTTTTTTTCAGTCTTTTTTGAATAATTGAAACATCAAGAT  
GGCATTAGAACTTAAGAGCTGTAGAAGATGCCTTTGTACCTGTTATAAAATTTGAATTTGATGGTATTG  
AAATTGATCTAGTCTTTGCAAGACTGGCAATACAAACCATATCAGATAATTTAGATCTAAGAGACGACTC  
TCGCCTGAGAAGCCTTGATATAAGGTGATTTCGCAGCTTAAATGGTTGTAGAGTTACTGATGAAATTTTG  
CATTTAGTGCCAAATAAAGAACTTTTAGACTCACCTAAGAGCTGTCAAATTATGGGCAAAACGACGTG  
GTATTTATTCCAACATGCTAGGATTCCTTGGTGGTGTCTCCTGGGCAATGCTAGTTGCAAGAACTTGCCA  
ATTGTATCCAATGCAGCAGCATCTACTTTAGTTCATAAGTTCTTTTTAGTTTTTTCCAAGTGGGAATGG  
CCAATCTGTGCTGCTGAAGCAACCAGAAAGCAATTTGAATTTGCCTGTCTGGGATCCTCGGGTAA  
ATCCATCAGATAGGTATCATCTCATGCCATAATCACCCCTGCCTACCCACAACAGAATTTCTACGTATAA  
TGTGTCCACATCAACTCGAACAGTAATGGTAGAAGAATTTAAACAAGGTCTTGCAGTCACAGATGAAATT  
CTTCAAGGAAAGTCAGATTGGTCCAACTACTTGAGCCACCGAATTTCTTTCAAAGTATAGACATTATA  
TAGTATTGACTGCCAGCGCATCAACAGAAAGAAACCATCTAGAGTGGGTTGGATTAGTAGAATCTAAAAT  
CCGTGTACTTGTGAAACTTGGAACGGAATGAATTTATTACTCTTGCCCATGTGAATCCCCAGTCATTC  
CCAGGGAATAAGGAACATCATAAAGACAACAATTACGTATCAATGTGGTTCCTTGGGATAATTTTTCGGA  
GAGTAGAAAAATGCAGAAAGTGTCAACATAGACTTGACATATGATATACAGTCATTTACTGATACAGTGTA  
CAGACAGGCAACAATATAAATATGCTAAAGGAGGGAATGAAAATTGAAGCAACTCATGTAAGAAAAAAA  
CAACTTCACCACTACCTTCTGCAGAAATTTCTCAAAGAAGAAAAAGCAAAGTCTCTCTGATGTCAATC  
GAAGCTCGGGCGGACTTCAATCCAAAAGATTGTCTCTGGATAGCAGTTGTCTGGATAGCTCCAGAGACAC  
TGATAATGGAACACCTTTTAATTCTCCAGCGTCCAAGTCTGATAGCCCTTCTGTAGGAGAAACAGAAAGG  
AATAGTGTGAGCCTGCTGCTGTAATTGTGGAGAAGCCACTGAGTGTACCACCAGCCCAAGGACTTTCCA  
TTCCAGTGATTGGCGCAAAGTTGACTCTACAGTAAAAACTGTATCACCCCCACTGTGTGTACCATTCC  
TACCGTAGTAGGACGAAATGTCATTCTAGAAATCACAACACCTCACAACCCTGCCAGGGACAACCGCAT  
CTGAATGGAATGTCAAATATAACTAAGACTGTTACACCTAAGAGATCCCATTCCCATCCATAGATGGGA  
CTCCTAAGAGGTTGAAAGACGTAGAAAAGTTTATTCGACTTGAATCAACATTTAAGGACCCCGCACTGC  
TGAAGAAAAGAAAAGAAAATCAGTGGATGCCATTGGAGGAGAATCTATGCCTATTCCAATATTGATACA  
TCACGCAAAAAGAGACTACCCAGTAAAGAACTACCAGATTCATCATCTCCAGTCCAGCAAAACAACATCC  
GTGTCATCAAAAATTCATTGACTGACCCTTAATCGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG213918 representing NM\_022894  
 Red=Cloning site Green=Tags(s)

MKEMSANTVLDSQRQKHYGITSPIISLASPKRIDHIYTQKLIIDAMKPFVFEDEEELNHRLVVLGKLNLL  
 VKEWISDVSESKNLPPSVVATVGGKIFTFGSYRLGVHTKGADIDALCVAPRHVERSDFFQSFEEKLKHQD  
 GIRNLRAVEDAFVPVIKFEFDGIEIDLVFARLAIQTIIDNLDLRDSDRLSLDIRCIRSLNGCRVTDEIL  
 HLVPNKETFRLTLRAVKLWAKRRGIYSNMLGFLGGVSWAMLVARTCQLYPNAAASTLVHKFFLVFSKWEW  
 PNPVLLKQPEESNLNLPVWDRVNPSTRYLMPITPAYPQQNSTYNVSTSTRVMVEEFKQGLAVTDEI  
 LQGKSDWSKLLLEPPNFQKYRHYIVLTASASTEENHLEWVGLVESKIRVLVGNLERNEFITLAHVNPQSF  
 PGNKEHHKDNYYVSMWFLGIIFFRVENAESVNIDLTYDIQSFTDTVYRQANNINMLKEGMKIEATHVKKK  
 QLHHYLPAAEILQKKKQSLSDVNRSSGGLQSKRLSLDSSCLDSSRDTDNGTPFNPSASKSDSPSVGETER  
 NSAEPAAVIVEKPLSVPPAQGLSIPVIGAKVDSTVKTVPPTVCTIPTVGRNVIPRITTPHNPAGGQPH  
 LNGMSNITKTVPKRSHSPSIDGTPKRLKDVKEFIRLESTFKDPRTAERKRKSVDAIGGESMPIPTIDT  
 SRKKRLPSKELPDSSSPVANNIRVIKNSIRLTLNR

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_022894

**ORF Size:** 2208 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\\_022894.4](#)

**RefSeq Size:** 4252 bp

**RefSeq ORF:** 2211 bp

**Locus ID:** 64895

**UniProt ID:** [Q9BWT3](#)

**Cytogenetics:** 2p16.1

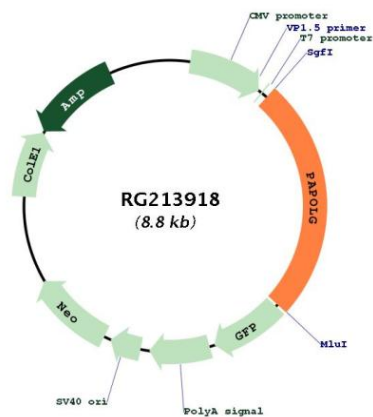
**Domains:** NTP\_transf\_2, PAP\_RNA-bind, PAP\_central

**Protein Families:** Transcription Factors

**Protein Pathways:** RNA degradation

**Gene Summary:** This gene encodes a member of the poly(A) polymerase family which catalyzes template-independent extension of the 3' end of a DNA/RNA strand. This enzyme shares 60% identity to the well characterized poly(A) polymerase II (PAPII) at the amino acid level. These two enzymes have similar organization of structural and functional domains. This enzyme is exclusively localized in the nucleus and exhibits both nonspecific and CPSF (cleavage and polyadenylation specificity factor)/AAUAAA-dependent polyadenylation activity. This gene is located on chromosome 2 in contrast to the PAPII gene, which is located on chromosome 14. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RG213918