

## Product datasheet for **RG219319**

### **RPP40 (NM\_006638) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RPP40 (NM_006638) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RPP40
Synonyms:	bA428J1.3; RNASEP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG219319 representing NM_006638 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCACGCTGCGCCGGCTTCGGGAGGCGCCGGCACTTACTGGTTTGCAGAAATCCAACCTCGGCA  
ACCACAAGTCGCGCCACCGGCATCTTGTGCAGACGCACTACTATAACTACAGGGTTTCATTTCTCATTCC  
TGAATGTGGGATACTATCGGAAGAACTGAAAACTGGTCATGAACACTGGACCCTATTACTTTGTGAAG  
AATTTACCTCTTCATGAATTAATTACACCTGAATTCATCAGTACCTTTATAAAGAAAGGTTCTTGCTATG  
CACTAACATACAATACACATATTGATGAAGATAAATACTGTTGCCCTGCTACCAAATGGGAAATTAATTTT  
GTCAGTGGATAAAGACACTTATGAAGAACTGGACTTCAGGGTCATCCATCTCAGTTTTCTGGCAGAAAA  
ATTATGAAATTTATTGTTTCCATTGATTTGATGGAATTATCCTTAAACTTGGATTCTAAGAAGTATGAAA  
GAATATCTTGGTCTTCAAAGAAAAAGACGATTGAAATTTGATTTTCTTTGGCTTGGCATAAAACAGG  
TTCAGAAGAAATCGACAATGATGTCATATTTTCCAAGTACCAAATTCAGGAGCATCAGCCAAAAGTAGCA  
CTGAGCACGTTGAGAGATCTCCAGTGCCAGTGTGCAGAGCAGCGAGCTGGAGGAAACGCCAGAGGTGT  
CCTGCCGGGCTCTGGAGCTCTTCGACTGGCTCGGCGCGTCTTCAGTAATGTCGACCTAAATAATGAGCC  
TAATAATTTTCATATCAACCTATTGCTGTCTGAGCCAAGCACAGTGGTGGCAAAGCTTATTTGTGTACA  
ATCACTGGCTTCATACTCCAGAGAAGATCTGTCTCCTATTGGAACATCTGTCACTACTTTGATGAAC  
CGAAGTTAGCTCCATGGGTTACACTGTCCGTTCAAGGCTTTGCAGACAGCCCTGTTTCTGGGAAAAAAA  
TGAACATGGTTTTCGAAAAGGAGGAGAACATTTATATAACTTTGTGATTTTAATAATCAGGACTATTGG  
CTTCAGATGGCTGTTGGGGCAAATGATCACTGTCCACCA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG219319 representing NM\_006638  
 Red=Cloning site Green=Tags(s)

MATLRRLLREAPRHLLVCEKSNFGNHKSRHRHLVQTHYYNYRVSFLLIPECGILSEELKNLVMNTGPYYFVK  
 NLPLHELITPEFISTFIKKGSCYALTYNTHIDEDNTVALLPNGKLILSLDKDITYEETGLQGHPSQFSGRK  
 IMKFIVSIDLMELSLNLDSSKKYERISWSFKEKKPLKFDLFLAWHKTGSEESTMMSYF SKYQIQEHQPKVA  
 LSTLRDLQCPVLQSSSELEGTPEVSCRALELFDWLGAVFSNVDLNNPEPNFISTYCCPEPSTVVAKAYLCT  
 ITGFILPEKICLLLEHLCHYFDEPKLAPWVTLVQGFADSPVSWEKNEHGFRRKGGHELYNFVIFNNQDYW  
 LQMAVGANDHCPP

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_006638

**ORF Size:** 1089 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\\_006638.4](#)

**RefSeq Size:** 1174 bp

**RefSeq ORF:** 1092 bp

**Locus ID:** 10799

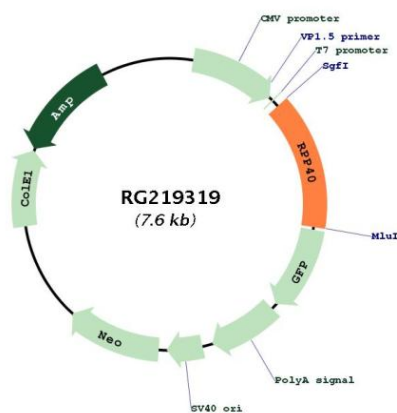
**UniProt ID:** [O75818](#)

**Cytogenetics:** 6p25.1

**Protein Families:** Stem cell - Pluripotency

**Gene Summary:** Component of ribonuclease P, a ribonucleoprotein complex that generates mature tRNA molecules by cleaving their 5'-ends (PubMed:9630247, PubMed:30454648). Also a component of the MRP ribonuclease complex, which cleaves pre-rRNA sequences (PubMed:28115465). [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for RG219319