

Product datasheet for **RC219319**

RPP40 (NM_006638) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Tag: Myc-DDK

Symbol: RPP40

Synonyms: bA428J1.3; RNASEP1

Mammalian Cell Selection: Neomycin

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC219319 representing NM_006638
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCACGCTGCGCCGGCTTCGGGAGGCGCCGGCACTTACTGGTTTGCGAGAAATCCAATTCGGCA
ACCACAAGTCGCGCCACCGGCATCTTGTGCAGACGCACTACTATAACTACAGGGTTTCATTTCTCATTCC
TGAATGTGGGATACTATCGGAAGAACTGAAAACTGGTCATGAACACTGGACCTATTACTTTGTGAAG
AATTTACCTCTTCATGAATTAATTACACCTGAATTCATCAGTACCTTTATAAAGAAAGGTTCTTGCTATG
CACTAACATAACAATACACATATTGATGAAGATAAATACTGTTGCCCTGCTACCAAATGGGAAATTAATTTT
GTCACTGGATAAAGACACTTATGAAGAACTGGACTTCAGGGTCATCCATCTCAGTTTTCTGGCAGAAAA
ATTATGAAATTTATTGTTTCCATTGATTTGATGGAATTATCCTTAACTTGGATTCTAAGAAGTATGAAA
GAATATCTTGGTCTTCAAAGAAAAGAAGCCATTGAAATTTGATTTTCTTTGGCTTGGCATAAAACAGG
TTCAGAAGAATCGACAATGATGTCATATTTTCCAAGTACCAAATTCAGGAGCATCAGCCAAAAGTAGCA
CTGAGCACGTTGAGAGATCTCCAGTGCCAGTGCTGCAGAGCAGCGAGCTGGAGGGAACGCCAGAGGTGT
CCTGCCGGGCTCTGGAGCTCTCGACTGGCTCGGCGCGTCTTCAGTAATGTCGACCTAAATAATGAGCC
TAATAATTTATATCAACCTATTGCTGTCTGAGCCAAGCACAGTGGTGGCAAAAGCTTATTTGTGTACA
ATCACTGGCTTCATACTCCAGAGAAGATCTGTCTCCTATTGGAACATCTCTGTCACTACTTTGATGAAC
CGAAGTTAGCTCCATGGGTTACACTGTCCGTTCAAGGCTTGCAGACAGCCCTGTTTCTTGGGAAAAAAA
TGAACATGGTTTTCGAAAAGGAGGAGAACATTTATATACTTTGTGATTTTAAATATCAGGACTATTGG
CTTCAGATGGCTGTTGGGGCAAATGATCACTGTCCACCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC219319 representing NM_006638
 Red=Cloning site Green=Tags(s)

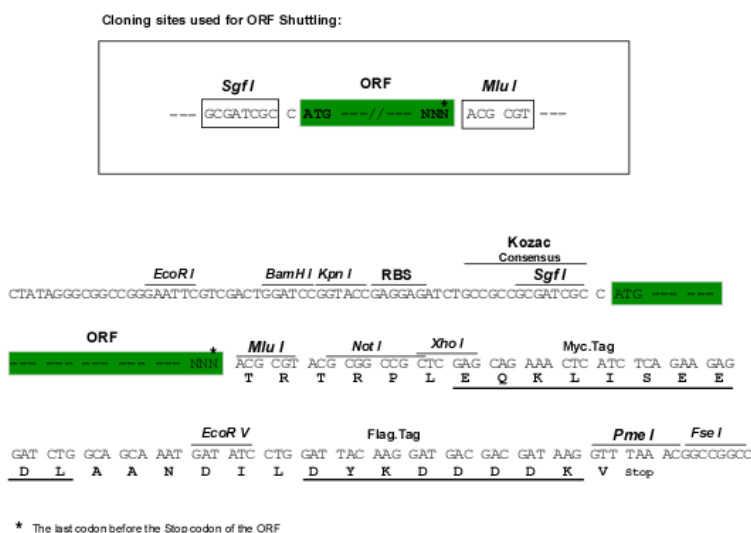
MATLRRRLREAPRHLLVCEKSNFGNHKSRHRHLVQTHYYNRYVSFLIPECGILSEELKNLVMNTGPYYFVK
 NLPLHELITPEFISTFIKKGSCYALTYNTHIDEDNTVALLPNGKLILSLDKDITYEETGLQGHPQSQSGRK
 IMKFIVSIDLMELSLNLDISKKYERISWSFKEKKPLKDFLLAWHKTGSEESTMMSYFSKYQIQEHQPKVA
 LSTLRDLQCPVLQSSLEGTPEVSCRALELFDWLGAVFSNVDLNNEPNNFISTYCCPEPSTVVAKAYLCT
 ITGFI LPEKICLLLEHLCHYFDEPKLAPWVTL SVQGFADSPVSWEKNEHGFRKGGEHLYNFVIFNNQDYW
 LQMAVGANDHCPP

TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6476_a05.zip

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_006638.4](#)

RefSeq Size: 1174 bp

RefSeq ORF: 1092 bp

Locus ID: 10799

UniProt ID: [O75818](#)

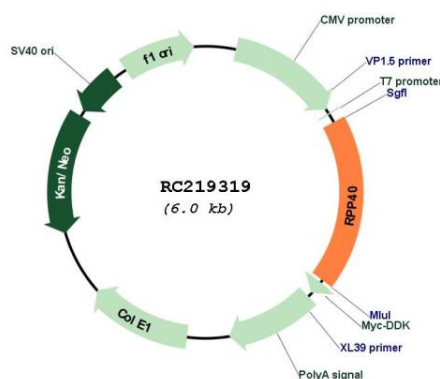
Cytogenetics: 6p25.1

Protein Families: Stem cell - Pluripotency

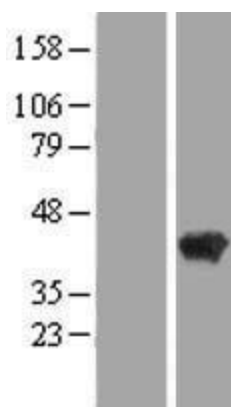
MW: 41.7 kDa

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]

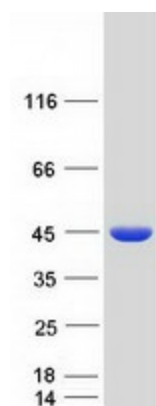
Product images:



Circular map for RC219319



Western blot validation of overexpression lysate (Cat# [LY416512]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219319 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RPP40 protein (Cat# [TP319319]). The protein was produced from HEK293T cells transfected with RPP40 cDNA clone (Cat# RC219319) using MegaTran 2.0 (Cat# [TT210002]).