

Product datasheet for **RR205059**

Pop4 (NM_001009642) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pop4 (NM_001009642) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pop4
Synonyms:	MGC108830
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR205059 representing NM_001009642 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGAAGGCTGTGATCTACCATGCCTTTTCTCATAAAGAAGCCAAGGACCACGATGTGCAGGAGCTGGGAA
CCCAGCGGGCTGAGGCCTTTGTGCGGGCCTTCCTGAAGCAGAGCATACCTCACATGAGCCAACAAGACTG
CGAGAGCCATCTGCAACGAAGGCTGTGATCTTGAATATTTCACTCGCCTGAAGCCGAAGCCAAGGCCA
AAGAAGAAATCCAAAGGCCTCTCTGCCAAACAGAGGAGAGAGCTCGGCTCTTTGACATTAAACCAGAGC
AACAGAGATACAGTCTCTCCTCCTCTACATGAAGTCTGAAACAGTACATCCGTGACCTGTGCAATGG
GCTCAAGCCAGACACGCAGCCACAGATGATTCAAGCCAAGCTCCTAAAGGCAGATCTTCATGGCGCTGTT
ATTTCAAGTACAGAAATCCAAGTCCCCCTCTATGTGGGAGTTACGGGAATCCTTCTGCAGGAGACCAAGC
ATGTCTTCAAGATCATCACCAGAAAGACCACTGAAAGTTATCCCTAAGCAAAATTGTGTGTTACCAT
AGAAATTGATGACTTCATTTCTACATTATGGAAGCAAATTCAGCTTCGGGCAAGTGAGCGGTCTGCC
AAGAAGTTCAAAGCAAAGGGAACAATTGACCTA

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RR205059 representing NM_001009642
 Red=Cloning site Green=Tags(s)

MKAVIYHAFSHKEAKDHDVQELGTQRAEAFVRAFLKQSI PHMSQQDCESHLQRKAVILEYFTRLKPKPRP
 KKKSKGLSAKQRRELRLFDIKPEQQRYSLFLPLHELWKQYIRDL CNGLKPDTPQPMIQA KLLKADLHGAV
 ISVTSKSCPSYVGVTGILLQETKHVFKIITKEDHLKVI PKQNCVFTIEIDDFISYIYGSKFQLRASERSA
 KKFKAKGTIDL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001009642

ORF Size: 663 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_001009642.1](#), [NP_001009642.1](#)

RefSeq Size: 1205 bp

RefSeq ORF: 666 bp

Locus ID: 292831

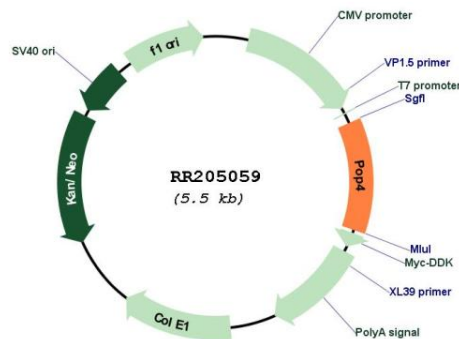
UniProt ID: [Q5M882](#)

Cytogenetics: 1q21

MW: 25.6 kDa

Gene Summary: Component of ribonuclease P, a ribonucleoprotein complex that generates mature tRNA molecules by cleaving their 5'-ends.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR205059