

## Product datasheet for MR201402

### Pop5 (NM\_026398) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Pop5 (NM\_026398) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Pop5  
**Synonyms:** 1500019J17Rik; 2700077E03Rik; AW049989; Rnasep3  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR201402 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGGTGCGGTTCAAGCACAGGTACCTTCTGTGCGAGCTGGTGTCCGAGGACGCGCGCTGCCGTTTGAGCC  
TGGACGACCGGTGCTGGGCGGGCTGGTCCGCGACACGATCGCCCGGTGCACGGGGCTTCGGCGCCGC  
CGCCTGCTCCGTGGGCTTTCAGTCCGATACCTCAATGCCTACACTGGAGTCGTGCTACTGCGATGCCGG  
AAGGATTTCTACCAGCTCGTGTGGTCACTCTTCTTTCATCACCTATTTGGAGAACAAAGGCCACCGTT  
ACCCGTGCTTCTCAACACATTACACGTGGGAGGTACCATCAGAACCTGTCAGAAGTTCTGATCCAGTA  
CAACAGGAGACAGCTGCTGATCTTGTGAGAATTGCACTGACGAAGGAGAGCGGAAGCCATCAAGAAG  
TCTGTCTCAAGAAGCTGTCTGCTGGACAGAGCCCGTTGAAGAGCTTTCAGACAGTGTGGTGAGGAGG  
TTGCAGAAGCAATGGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR201402 protein sequence  
Red=Cloning site Green=Tags(s)

MVRFKHYLLCELVSEDARCLSLDDRVLGGLVRDTIARVHGAFGAAACSVGFVRYLNAYTGCVLLRCR  
KDFYQLVWSALPFITYLENKGHRYPCFFNTLHVGGTIRTCQKFLIQYNNRQLLILLQNCTDEGEREAIKK  
SVSRSCLLDREPVEELSDSAGEEVAEAME

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



Cloning Scheme:



ACCN: NM\_026398

ORF Size: 510 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\\_026398.4](#)

RefSeq Size: 991 bp

RefSeq ORF: 510 bp

Locus ID: 117109

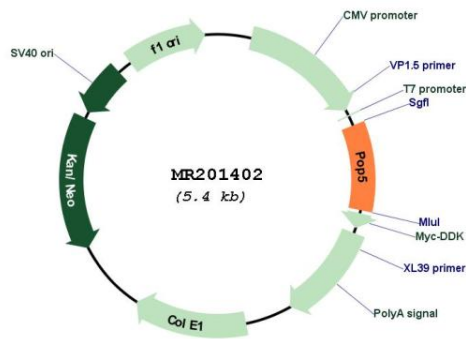
UniProt ID: [Q9DB28](#)

Cytogenetics: 5 F

MW: 19.3 kDa

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

**Product images:**



Circular map for MR201402