

Product datasheet for **RG204400**

POP5 (NM_015918) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: POP5 (NM_015918) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: POP5
Synonyms: hPop5; HSPC004; RPP2; RPP20
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG204400 representing NM_015918
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTGC GGTTCAAGCACAGGTACCTGCTCTGCGAACTGGTGTCTGACGACCCCCGCTGCCGCTAAGCC
 TCGATGACCGAGTTCTGAGCAGCCTCGTACGGGACACGATCGCCAGGGTGCACGGAACCTTCGGCGCAGC
 CGCCTGCTCCATCGGCTTCGCGGTTTCGATATCTCAATGCCTATACTGGAATAGTGTACTTCGATGCAGA
 AAAGAATTCTATCAGCTTGTGTGGTCAGCTCTCCCTTCATCACATACTGGAGAACAAAGGACACCGTT
 ACCCATGCTTTTTCAACACATTACATGTGGGAGGTACAATAAGAACATGTCAGAAGTTCCTAATTCAGTA
 CAACAGGAGACAGCTGTTGATCTTGTTCGAGAAGTGCAGTGAAGGAGAGCGGGAAGCTATCCAGAAG
 TCTGTGACAAGAAGCTGCTTACTAGAGGAGGAGGAGGAGTCAGGTGAGGAGGCTGCAGAAGCAATGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG204400 representing NM_015918
 Red=Cloning site Green=Tags(s)

MVRFKHYLLCELVSDPRCLSLDDRVLSSLVRDTIARVHGTFGAAACSIGFAVRYLNAYTGIVLLRCR
 KEFYQLVWSALPFITYLENKGHRYPFFNTLHVGGTIRTCQKFLIQYNNRQLLILLQNCTDEGEREAIQK
 SVTRSCLEEEEEESGEEAAEAME

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_015918

ORF Size: 489 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_015918.2](#)

RefSeq Size: 801 bp

RefSeq ORF: 492 bp

Locus ID: 51367

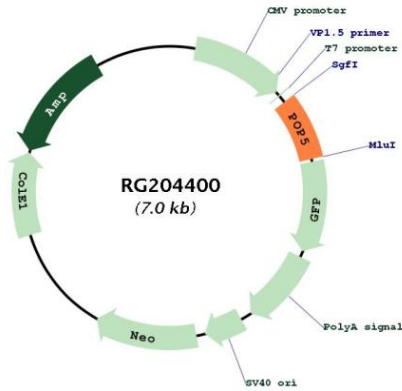
UniProt ID: [Q969H6](#)

Cytogenetics: 12q24.31

Protein Families: Stem cell - Pluripotency

Gene Summary: Component of ribonuclease P, a protein complex that generates mature tRNA molecules by cleaving their 5'-ends (PubMed:11413139, 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 RG204400