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Product datasheet for RC204400

POP5 (NM_015918) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POP5 (NM_015918) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	POP5
Synonyms:	hPop5; HSPC004; RPP2; RPP20
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC204400 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGCGGTTCAAGCACAGGTACCTGCTCTGCGAACTGGTGTCTGACGACCCCCGCTGCCGCCTAAGCC
TCGATGACCGAGTTCTGAGCAGCCTCGTACGGGACACGATCGCCAGGGTGCACGGAACTTTCGGCGCAGC
CGCCTGCTCCATCGGCTTCGCGGTTCGATATCTCAATGCCTATACTGGAATAGTGCTACTTCGATGCAGA
AAAGAATTCTATCAGCTTGTGTGGTCAGCTCTTCCCTTCATCACATACTTGGAGAACAAAGGACACCGTT
ACCCATGCTTTTTCAACACATTACATGTGGGAGGTACAATAAGAACATGTCAGAAGTTCCTAATTCAGTA
CAACAGGAGACAGCTGTTGATCTTGTTGCAGAACTGCACTGATGAAGGAGAGCGGGAAGCTATCCAGAAG
TCTGTGACAAGAAGCTGCTTACTAGAGGAGGAGGAGGAGTCAGGTGAGGAGGCTGCAGAAGCAATGGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC204400 protein sequence
Red=Cloning site Green=Tags(s)

MVRFKHRYLLCELVSDDPRCRLSLDDRVLSSLVRDTIARVHGTFGAAACSIGFAVRYLNAYTGIVLLRCR
KEFYQLVWSALPFITYLENKGHRYPCFFNTLHVGGTIRTCQKFLIQYNRRQLLILLQNCTDEGEREAIQK
SVTRSCLLEEEEESGEEAAEAME

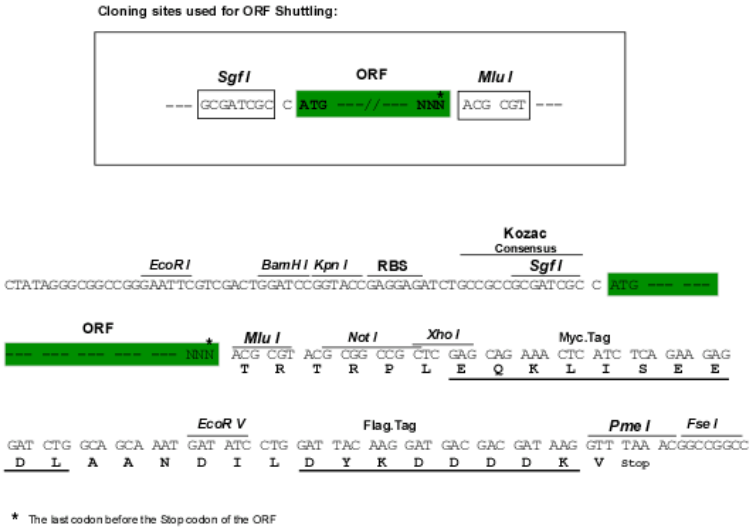
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6325_f01.zip

View online »

Restriction Sites: SgfI-MluI

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

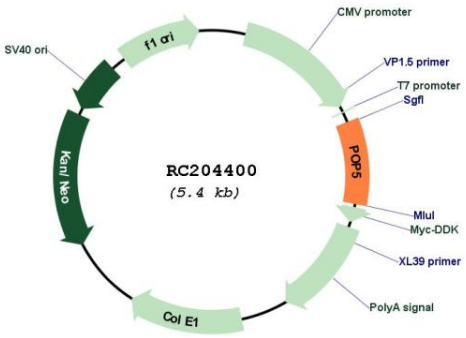
Cytogenetics: 12q24.31

Protein Families: Stem cell - Pluripotency

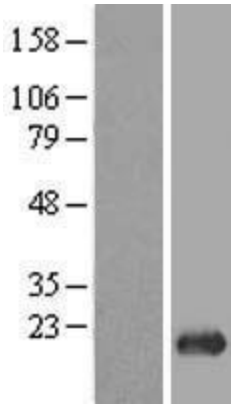
MW: 18.8 kDa

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]

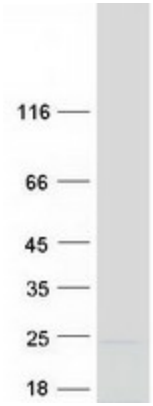
Product images:



Circular map for RC204400



Western blot validation of overexpression lysate (Cat# [LY414321]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204400 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified POP5 protein (Cat# [TP304400]). The protein was produced from HEK293T cells transfected with POP5 cDNA clone (Cat# RC204400) using MegaTran 2.0 (Cat# [TT210002]).