

Product datasheet for RC202898

POP4 (NM_006627) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	POP4
Synonyms:	RPP29
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC202898 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGAGTGTGATCTACCATGCATTGTCTCAGAAAGAGGCGAATGACTCCGATGTCCAGCCTTCAGGAG
CACAGCGGGCCGAGGCCTTCGTGAGGGCCTTCCTGAAGCGCAGCACGCCCGCATGAGCCCGCAGGCCCG
CGAGGACCACTGCAGCGCAAGGCGGTGGTCTGGAGTACTTCACCCGCCACAAGCGCAAGGAGAAGAAG
AAGAAAGCCAAAGGCCTCTCTGCCAGGCAAGGAGGAGCTGCGGCTCTTGACATTAACCCAGAGCAGC
AGAGATACAGCCTTTTCTCCCTCTCCATGAACTCTGGAAACAGTACATCAGGGACCTGTGCACTGGGCT
CAAGCCAGACACGAGCCACAGATGATTCAGGCCAAGCTCTTAAAGGCAGATCTTACGGGGCTATTATT
TCAGTGACAAAATCCAAATGCCCTCTTATGTGGGTATTACAGGAATCCTTCTACAGGAAACAAAGCACA
TTTTCAAATTTATACCAAAGAAGACCGCCTGAAAGTTATCCCAAGCTAACTGCGTGTTCACTGTGGA
AACCGATGGCTTTATTTCTACATTTACGGGAGCAAATCCAGCTTCGGTCAAGTGAACGGTCTGCGAAG
AAGTTCAAAGCGAAGGAACGATTGACCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence:

>RC202898 protein sequence
Red=Cloning site Green=Tags(s)

MKSVIYHALSQKEANDSDVQPSGAQRAEFVRAFLKRSTPRMSPQAREDQLQRKAVLLEYFTRHKRKEKK
 KKAKGLSARQRRRLRFLDKPEQQRYSFLPLHELWKQYIRDLCSGLKPDTPQPMIQAKLLKADLHGAI
 SVTSKSCPSYVGITGILLQETKHIFKIIITKEDRLKVIPLNCFVTVETDGFISYIYGSKFQLRSSERSAK
 KFKAKGTIDL

TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Chromatograms:

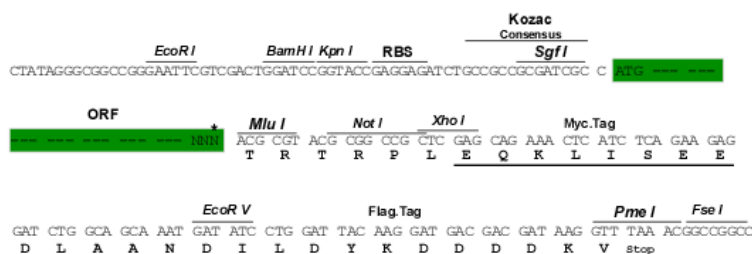
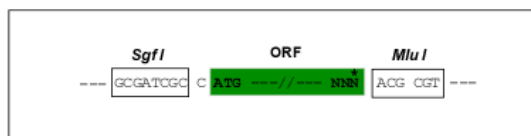
https://cdn.origene.com/chromatograms/mk6l44_g10.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN:

NM_006627

ORF Size:

660 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:

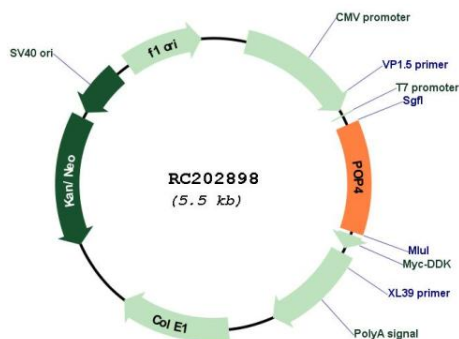
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components:

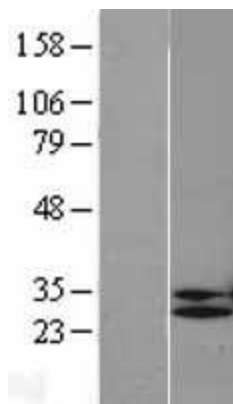
The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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:	<u>NM_006627.3</u>
RefSeq Size:	2612 bp
RefSeq ORF:	663 bp
Locus ID:	10775
UniProt ID:	<u>O95707</u>
Cytogenetics:	19q12
Domains:	POP4
MW:	25.4 kDa
Gene Summary:	This gene encodes one of the protein subunits of the small nucleolar ribonucleoprotein complexes: the endoribonuclease for mitochondrial RNA processing complex and the ribonuclease P complex. The encoded protein is localized to the nucleus and associates directly with the RNA component of these complexes. This protein is involved in processing of precursor RNAs. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2009]

Product images:



Circular map for RC202898



Western blot validation of overexpression lysate (Cat# [LY401980]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202898 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).