

Product datasheet for **RG202898**

POP4 (NM_006627) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	POP4
Synonyms:	RPP29
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG202898 representing NM_006627
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTGCACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGAGTGTGATCTACCATGCATTGTCTCAGAAAGAGGCGAATGACTCCGATGTCCAGCCTTCAGGAG
CACAGCGGGCCGAGGCCTTCGTGAGGGCCTTCCTGAAGCGCAGCAGCCCCGCATGAGCCCCGAGGCCCG
CGAGGACCACTGCAGCGCAAGGCGGTGGTCTGGAGTACTTACCCGCCACAAGCGCAAGGAGAAGAAG
AAGAAAGCCAAAGGCCTCTCTGCCAGGCAAGGAGGAGCTGCGGCTCTTGACATTAAACCAGAGCAGC
AGAGATACAGCCTTTTCTCCCTCTCCATGAACCTCTGAAACAGTACATCAGGGACCTGTGCACTGGGCT
CAAGCCAGACACGACGCCACAGATGATTCAGGCCAAGCTCTTAAAGGCAGATCTTACGGGGCTATTATT
TCAGTGACAAAATCCAATGCCCTCTTATGTGGGTATTACAGGAATCCTTCTACAGGAAACAAAGCACA
TTTTCAAATATACCAAAGAAGACCGCCTGAAAGTTATCCCAAGCTAAACTGCGTGTTCACTGTGGA
AACCGATGGCTTTATTTCTACATTTACGGGAGCAAATCCAGCTTCGGTCAAGTGAACGGTCTGCGAAG
AAGTTCAAAGCGAAGGGAACGATTGACCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG202898 representing NM_006627
Red=Cloning site Green=Tags(s)

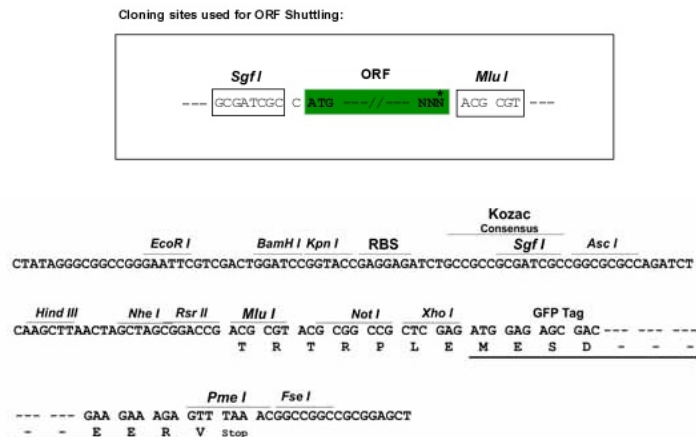
MKSVIYHALSQKEANDSDVQPSGAQRAEAFVRAFLKRSTPRMSPQAREDQLQRKAVVLEYFTRHKRKEKK
KKAKGLSARQRRELRLFDIKPEQQRYSFLPLHELWKQYIRDLCGLKPDTPQMIAKLLKADLHGAI
SVTKSKCPSYVGITGILLQETKHIFKIITKEDRLKVIPKLNCFVTVETDGFISYIYGSKFQLRSSERSAK
KFKAKGTIDL

TRTRPLE - GFP Tag - V



Restriction Sites: SgfI-MluI

Cloning Scheme:



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: [NM_006627.3](#)

RefSeq Size: 1133 bp

RefSeq ORF: 663 bp

Locus ID: 10775

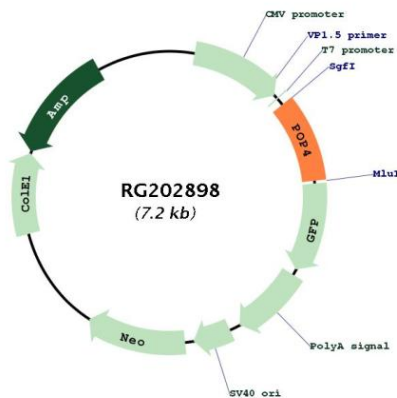
UniProt ID: [O95707](#)

Cytogenetics: 19q12

Domains: POP4

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 RG202898