

Product datasheet for **MG218403**

Pop4 (NM_025390) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Tag: TurboGFP
Symbol: Pop4
Synonyms: I110023P21Rik; Rpp29
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG218403 representing NM_025390
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTGCACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGGCTGCCATCTACCATGCCTTTTCTCATAAAGAAGCCAAGGACCACGATGTGCAGGAGCTGGAA
GCCAGCGGGCTGAGGCCTTTGTGCGGGCCTTCTGAAGCAGAGCATACCTCACATGAGCCAAGAAGACTG
TGAGAGCCATCTGACGCGCAAGGCCGTGATCTTGGAATATTTCACTCGCCTAAAGCCAAGGCCAAGGCCA
AAGAAGAAATCAAAGGCCTCTCTGCCAAACAGAGGAGAGACATGCGGCTCTTTGACATTAAACCAGAGC
AACAGAGATACAGCCTGTTCTCCCTCTCCATGAACTCTGGAACAGTACATCCGGGACCTGTGCAATGG
GCTCAAGCCGGACACGCAGCCACAGATGATTAGGCCAAGCTCCTAAAGGCAGATCTTCATGGTGTCTATT
ATTTCACTCACGAAATCCAAGTGCCCTCCTATGTGGGAGTTACAGGAATCCTTCTGCAGGAGACCAAAAC
ATGTCTTTAAGATCATCACCAGAGAAGACCACCTAAAAGTCATCCCAAGCTGAATTGTGTGTTACCAT
AGAAATTGATGACTTCATTTCTACATTTATGGAAGCAAATTCAGCTTCGGGCAAGTGAGCGGTCTGCC
AAGAAGTTCAAAGCAAAGGGATCAATTGACCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG218403 representing NM_025390
Red=Cloning site Green=Tags(s)

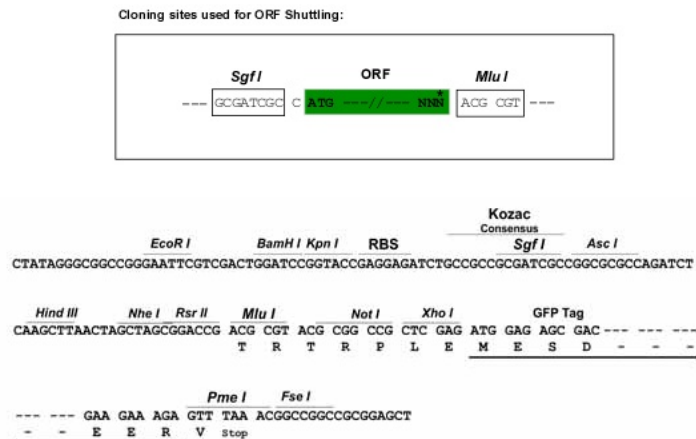
MKAAIYHAFSHKEAKDHVDVQELGSQRAEAFVRAFLKQSI PHMSQEDCESHLQRKAVILEYFTRLKPRPRP
KKKSKGLSAKQRRDMRLFDIKPEQQRYSLFLPLHELWKQYIRDLCNGLKPDTPQPMIQAALLKADLHGAI
ISVTSKSCPSYVGTGILLQETKHVFKIITREDHLKVIPKLNCFVTFIEIDDFISYIYGSKFQLRASERSA
KKFKAKGSIDL

TRTRPLE - GFP Tag - V



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_025390

ORF Size: 663 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:

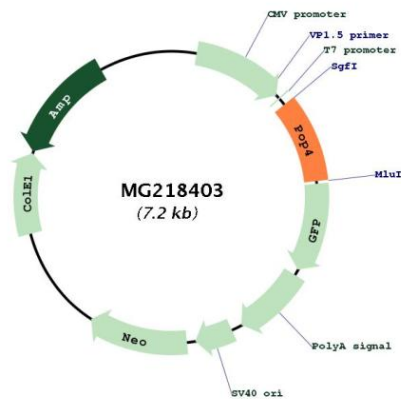
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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_025390.4](#), [NP_079666.1](#)

RefSeq Size:	1214 bp
RefSeq ORF:	666 bp
Locus ID:	66161
UniProt ID:	<u>Q9CR08</u>
Cytogenetics:	7 B3
Gene Summary:	Component of ribonuclease P, a ribonucleoprotein complex that generates mature tRNA molecules by cleaving their 5'-ends.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG218403