

Product datasheet for **MG215021**

Pop1 (NM_026340) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pop1 (NM_026340) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pop1
Synonyms:	4932434G09Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG215021 representing NM_026340 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTAATGCAAAGGAAAGAAAACATGCTAAGAAAATGAGAAACCAGCCAGTAACTGACTCTGTCT
CCGGCTTTATGGCTGAGAGAGATGGAAGCATCATTTTGGAAAGGGGAAGCCGTCCTCAATCTCAGAAACA
AGAGCTTCATTCTGGAACCTCAAGGCAGTGGCAAATCAAGATGAGTCCCCACTTGCTTCTGAGTCTGAT
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CTTCTCAGGAGATCCCCAAGTATAAATGCTTCTACTTTTGGCTCAAGCAGGAGCCGCTGAAATCAGTGC
CATGTTAAAAGCTGTGACCCAGAAGTCATCTAATCACTGCTGTTTCCAGACTCTTCCAAGGCACATGCGA
CGTAGAGCCATGAGCCACAATGTCAAACGCCTTCTAGACGGTTGCAGGAGATGGCCAAAAAAGAGGCGG
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CCGGACTCTGGAATTTAACCGCAGACAACAGAAGAACAATGTTAGAGACTCACATCTGGCAGCCAAA
CGGTTTCATATGGTGAAGAAGTGGGTTACTGCCTTGGGAGAGGCCACGGCCAAGAGCCACCGAGCCT
GCTATCGAGCCATGACAAACCTCGCTCCTGCAGGATTTATCATATTACTGCTGTTGGAGTTGAAAGG
CAAAGAGGAAGAAGTACTGAAAGCGCTCTCTCAAATGTGTAGCATAGACGAGGAGGCTGACTTTTGTGCA
GTTCACTGCTTGTCTGGGAAGCGCAAGGAGCCTCATGCTTTACCGGCAAAATAAGTATCCAGGGAAA
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GACTGACACTTGACGAGCTCTGATGGTCTTCTTCCAAAGACAAGAAGCAGTGTGAGTGTGTTG



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GGAGGGATATCATCACCAGCAGAAATCCAGCAGGTAATCTCTGGGATTGACAGTTAGGGATCCGAGAG
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 TTGCTGGAAATGTTGTCCAGCCAGTCAGCAGCCATGAGGGGCTGGTGTCTGCTGCCGCCTCAACCTCAC
 TGCAGTATCGGTTTGAAGAATTACCATTGAGGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG215021 representing NM_026340
 Red=Cloning site Green=Tags(s)

MSNAKERKHAKMNRNQPNSVTLSSGFMAERDGHKHHFGKGPSSQSQKQELHSGTSRQWQIKMSPHLLPESD
 VNEQSSSKTMFKKGGWKAGPEGTSQEIPKYITASTFAQARAAEISAMLKAVTQKSSNSLVFQTLPRHMR
 RRAMSHNVKRLPRRLQEMAKKEAEKAAHQKKEHSKNKCHKARRCHINRTLEFNRRQKNIWLETHIWHAK
 RFHMVKKWGYCLGERPTAKSHRACYRAMTNLCLLQDL SYYCCLELKGKEEELLKALSQMCSIDAGLTFAA
 VHCLSGKRQGSMLYRANKYPREMLGPVTFIWKSRTMPEDASEDRQLWIWLHPTLKLAVLEEIKTTCHCS
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 IVSDLTMEENRFRLIGPLSHCILTSALRAAPVHTGEEDAETPHHWTDTCRSSDGRSLHQRQEAFFELL
 GGISSPAEIPAGTILGLTVRDPVNLPPQRSRALPDPERYQANERVKQLLLEGVVACAHSF IWDQD ICR
 SVTENKLLDQDLNMRSELLVPGSQLDLGARESKIPILLIQQPGKVTGEDRLGWGSGWDVLI PKGWGMF
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 LAPFCCPWEQLTRDWESRVHAQEAIIASMPGAQETDPRRLGVPCVPKEICQLSNEAGIAENQPRKPEVT
 GCQAQEGTKVAMEWNA SEAHMATTGSQLCVVRSRLLKQLSSWCGPSSEIRRAPCRAQQELTSNVCLSIL
 NDFPRALVWVSL SLLRKGSPHTMIVPSKEDLHRLSQDQCYHGPWESRHSDFKSLILKEKEKKKKEK
 RQDGEHRASEGQAAGPPIAGQEAL TQGLWSGPLPGLTSHCSRLLLGFVTQGDFSMAAGCGEALGFVSMTG
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TRTRPLE - GFP Tag - V

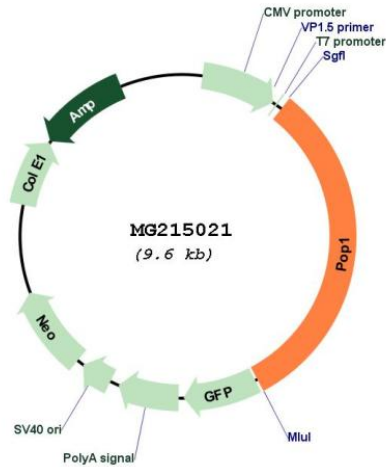
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_026340

ORF Size: 3045 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:	<ol style="list-style-type: none">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:	<u>NM_026340.3</u> , <u>NP_080616.1</u>
RefSeq Size:	3303 bp
RefSeq ORF:	3048 bp
Locus ID:	67724
Cytogenetics:	15 B3.1