

## Product datasheet for **MG211519**

### Pop1 (NM\_152894) Mouse Tagged ORF Clone

#### Product data:

|                           |                                                                             |
|---------------------------|-----------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                         |
| Product Name:             | Pop1 (NM_152894) 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:  | >MG211519 representing NM_152894<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTCTAATGCAAAGGAAAGAAACATGCTAAGAAATGAGAAACCAGCCAGTAACGTGACTCTGTCTT  
 CCGGCTTTATGGCTGAGAGAGATGGAAAGCATCATTTTGGAAAGGGGAAGCCGTCCCAATCTCAGAAACA  
 AGAGCTTCATTCTGGAACCTCAAGGCAGTGGCAAATCAAGATGAGTCCCCACTTGCTTCTGAGTCTGAT  
 GTGAATGAGCAATCTTCTCCAAACCATGTTTAAGAAAAAGGGAGGCTGAAAGCAGGTCTGAGGGCA  
 CTTCTCAGGAGATCCCCAAGTATATAACTGCTTCTACTTTTGCTCAAGCACGAGCCGCTGAAATCAGTGC  
 CATGTTAAAAGCTGTGACCCAGAAGTCATCTAACTCACTGGTTTTCCAGACTCTTCCAAGGCACATGCGA  
 CGTAGAGCCATGAGCCACAATGTCAAACGCCTTCTAGACGGTTGCAGGAGATGGCCAAAAAAGAGGCGG  
 AGAAAGCTGCTCATCAGAAAAAAGAACATTCAAAAAATAATGCCACAAAGCCGAAGATGTACATAAA  
 CCGGACTCTGGAATTTAACCGCAGACAACAGAAGAATATGGTTAGAGACTCACATCTGGCAGGCCAAA  
 CGGTTTCATATGGTGAAGAAGTGGGGTTACTGCCTTGGGAGAGGGCCACGGCCAAGAGCCACCGAGCCT  
 GCTATCGAGCCATGACAAACCTCTGCCTCCTGCAGGATTTATCATATTACTGCTGTTTGGAGTTGAAAGG  
 CAAAGAGGAAGAACTACTGAAAGCGCTCTCTCAATGTGTAGCATAGACGCAGGCCTGACTTTTGCTGCA  
 GTTCACTGCTTGTCTGGGAAGCGCAAGGGAGCCTCATGCTTTACCGGGCAAATAAGTATCCAGGGAAA  
 TGCTTGGGCCGGTTACCTTCATCTGGAAGTCTAGGATGACCCAGAGGATGCTTCTGAGGATAGGCAGCT  
 GTGGATCTGGCTTACCCAACCTCTAACTGGCTGTCCTAGAAGAAATAAAAAACAACATGCCACTGTTCA  
 GAACCCGTCAAGTCAAATATCTGCATGCCTGACCACTCCTGACACCAGCCCCGGAAGACATTCAAGCAG  
 GACTAGCTGGTGACAAAATCAGCAAGAAAAGAAAAGGAGAGACGATGGGAGAGTGTTAGCCGAGCTAA  
 GAAGACCATTGGTGACGGGACACGAGATGCCTGCCAGCCTCGGTCATGGCGATCTCCCACTACAGGGATT  
 ATAGTCAGTGACTTGACAATGGAGATGAACAGGTTCCGGCTGATAGGCCCTTTTCGCACTGTATCTGA  
 CCTCAGCACTGAGGGCTGCTCCTGTACACACAGGGGAAGAGGATGCCGAGGAGACACCACATCACTGGTG  
 GACTGACACTTGACGAGCTCTGATGGTCGTTCTTTCACCAAGACAAGAAGCAGTGTTTGAGTTGTTG


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GGAGGGATATCATCACCAGCAGAAATCCAGCAGGTACTATTCTGGGATTGACAGTTAGGGATCCGAGAG  
TAAATTTGCCCCACAGCGATCCAGAGCTTTCCTGATCCAGAAAGATACCAAGTTTCGGAATTTACCTG  
TGAGGAAGGGATGTGCACCGGCAGCTGGTCTTGTGCTCATTGGAAGCCTCTGTCTGACCATACAGATGAT  
CCAGCTAATGAGCGAGTGAAGCAGCTGCTTCTGGAGGGTGTGCCTGTGGCATGTGCACACAGCTTCATCT  
GGGACCAGGATATCTGTAGGAGTGTACCGAGAATAAACTCTGGATCAGGATTTAAACCGGATGAGAAG  
TGAGTTGCTGGTGCCCGGATCGCAACTTGATTTAGGGGCTCGTGAATCTAAGATACCCATACTTCTGATT  
CAGCAGCCAGGAAAAGTGACTGGCGAAGACCGACTGGGCTGGGGCAGTGGCTGGGATGTCCTCATTCCCA  
AGGGCTGGGGCATGGCTTTTGGATTCCATTTATCTACCGAGGTGCACGAGTTGGTGGACTAAAAGAGGC  
TACAGTGCATTCTCAATACAGACGGTCTCCTAACATCCCAGGCGATTTCCAGACTGCCGTGCTGGAGTT  
CTGTTTGTGAAGATCAAGCTAAGGATCTTCTAGAGAAGTACAGACGACGCCCTCCTGCTAAAAGGCCCA  
ACTATGTTAAGCTTGGCACACTGGCTCCTTCTGTTGTCCCTGGGAACAGCTGACTCGGGACTGGGAGTC  
CAGGGTTCATGCCAAGAGGCAGCTATTATAGCTTCAATGCCTGGTGTCTCAGGAGACTGACCCAAGACGG  
CTTGGAGTGCCTTGTGTCCCAAGAGATCTGCCAACTATCTAATGAGGCAGGCATAGCTGAAAACCAAC  
CCAGGAAGCCAGAAGTTACAGGCTGTCAAGCGCAGGAGGGGACCAAAGTGCCATGGAATGGAATGCCAG  
TGAGGCTCATATGGCTACCACAGGTAGCCAGCTCTGTGTTGTTCCGAGTAGGAACTGCTGAAGCAGCTC  
TCGTCTGGTGTGGGCCAGTTCTGAGATCAGGAGGGCTCCCTGCAGAGCTCAGCAAGAAGTACTGACTAGTA  
ACGTCTGCTTGTCCATTCTGAATGACTTCCCCAGAGCCCTGGTGTGGGTGAGCTTGTCCCTGCTCAGGAA  
GGGCAGCCAGAGCCTCACACCATGATCTGTGTCCCATCTAAGGAGGACCTGCACCGGCTCAGTCAGGAT  
CAGTGCTACCATGGACCTGGGAATCCAGACACAGCGACCCATTTAAAGCCTGATTCTGAAGGAGAAAAG  
AAAAGAAGAAAAGGAGAAGAGGCAGGATGGGGAACACAGAGCCTCCGAGGGCCAGGCCGAGGGCCGCC  
CATAGCTGGGCAGGAAGCTCTGACGCAGGGGCTGTGGTCAAGCCCCCTCCAGGACTAACCTCACACTGC  
TCCAGGCTCCTCCTAGGCTTTGTACACAGGGAGATTTTCTATGGCTGCTGGCTGTGGAGAAGCCTTAG  
GGTTTGTAGTATGACCGGCTTGTGGAATGTTGTCCAGCCAGTCAGCAGCCATGAGGGCCTGGTGCT  
GCTGCGGCTCCAACCTACTGCAGTATCGGTTTGCAAGAATTACATTGAGGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

#### Protein Sequence:

>MG211519 representing NM\_152894

Red=Cloning site Green=Tags(s)

MSNAKERKHAKKMRNQPSNVTLSSGFMAERDGHKHFHGKPKPSQSQKQELHSGTSRQWQIKMSPHLLPESD  
VNEQSSSKTMFKKKGWAGPEGTSQEIPKYITASTFAQARAAEISAMLKAVTQKSSNSLVFQTLPRHMR  
RRAMSHNVKRLPRRLQEMAKKEAEKAAHQKKEHSKNKCHKARRCHINRTLEFNRRQKNIWLETHIWHAK  
RFHMVKKWGYCLGERPTAKSHRACYRAMTNLCLLQDL SYYCCLELKGKEEELLKAL SQMCSIDAGLTF AA  
VHCLSGKRQGSMLYRANKYPREMLGPVTFIWKSRTMPEDASEDRQLWIWLHPTLKLAVLEEIKTTCHCS  
EPVKSNICMPDPLLTPAPEDIQAGLAGDKISKRRKRRDDGESVSRAKKTIGDGTADACQPRSWRSPPTGI  
IVSDLTMEINRFRLIGPLSHCILTALRAAPVHTGEEDAETPHHWWTDTCRSSDGRSLHQRQEAVFELL  
GGISSPAEIPAGTILGLTVRDPVNLPPQRSRALPDPERYQVSEFTCEEGMCTGSWSCAHWKPLSDHTDD  
PANERVKQLLLEGPVACAHSFIWDQDICSVTENKLLDQDLNMRSELLVPGSQLDLGARESKIPILLI  
QQPGKVTGEDRLGWGSGWDVLI PKGWGMFAWIPFIYRGARVGGGLKEATVHSQYRRSPNIPGDFPD CRAGV  
LFAEDQAKDLLEKYRRRPPAKRPNYVKLGTLAPFCCPWEQLTRDWESRVHAQEAAIIASMPGAQETDPRR  
LGVPKVPKEICQLSNEAGIAENQPRKPEVTGCQAQEGTKVAMEWNASEAHMATTGSQLCVVRSLKLLKQL  
SSWCGPSSEIRRAPCRAQQELTSNVCLSLNDFPRALVWVSL SLLRKGSPEPHTMICVPSKEDLHRLSQD  
QCYHGPWESRHSDFKSLILKEKEKKKKEKRQDGEHRASEGQAAGPPIAGQEAL TQGLWSGPLPGLTSHC  
SRLLLGFVTQGDFSMAAGCGEALGFVSMTGLEMLSSQSAAMRGLVLLRPPTSLQYRFARITIEV

TRTRPLE - GFP Tag - V

#### Restriction Sites:

SgfI-MluI

## Cloning Scheme:



ACCN: NM\_152894

ORF Size: 3135 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:

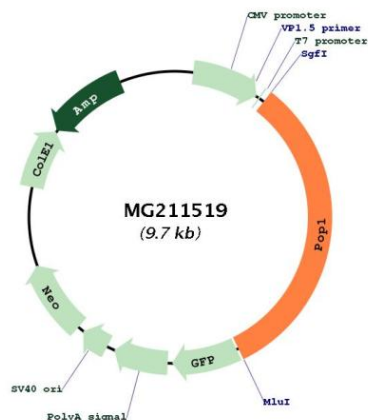
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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\\_152894.2](#)

RefSeq Size: 3396 bp  
 RefSeq ORF: 3138 bp  
 Locus ID: 67724  
 Cytogenetics: 15 B3.1

## Product images:



Circular map for MG211519