

## Product datasheet for **RG203861**

### POP1 (NM\_015029) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	POP1 (NM_015029) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	POP1
Synonyms:	ANXD2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203861 representing NM_015029 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCAAATGCAAAGAAAGAAAACACGCCAAGAAAATGAGAAACCAGCCTACCAATGTGACTCTGTCTCT  
CTGGCTTTGTGGCTGACAGAGGTGTAAGCACCACAGTGGAGGTGAAAAACCTTTCCAAGCTCAAAAACA  
AGAGCCTCATCTGGAACCTCACGACAGCGCAAACCAGAGTCAACCCCACTTCTCTGCCTGACCCTGAA  
GTGAATGAGCAGTCTTCTCAAAGGGATGTTTAGAAAAAGGGAGGATGAAAGCAGGTCCCGAGGGCA  
CGTCTCAGGAGATCCCCAAGTATAAATGCTTCTACTTTTGCTCAAGCAGGAGTGTGAAATCAGTGC  
TATGTTAAAAGCTGTGACCCAGAAGTCTTGAATTCAGTGGTTTTTCAGACTCTGCCACGGCACATGCGA  
CGAAGAGCCATGAGCCACAACGTCAAACGCCTTCCAGACGGTTACAGGAGATTGCCAGAAAGAGGCGG  
AGAAAGCCGTACATCAGAAAAAAGAACATTCAAAAATAATGCCATAAAGCTCGAAGATGTCACATGAA  
CCGGACGCTAGAATTTAACCGTAGACAAAAGAAGAACATTTGGTTAGAACTCACATCTGGCAGCCAAAG  
CGGTTTCATATGGTCAAGAAGTGGGGCTACTGCCTTGGGAGAGGGCAACAGTCAAGAGCCACAGAGCCT  
GCTATCGAGCCATGACGAACCGGTGCCTCCTGCAGGATTTATCCTATTACTGTTGTTGGAGTTGAAAGG  
CAAAGAGGAAGAAATACTAAAGGCGCTTCTGGAATGTGAACATAGACACAGGGCTGACGTTTGCAGCA  
GTTCACTGCTTGTGGAAGCGCAAGGGAGCCTTGTGCTTTATCGGGTGAATAAATATCCAGAGAAA  
TGCTTGGCCTGTTACGTTTATCTGGAAGTCCCAGAGGACCCCGGGTACCCTTCTGAGAGCAGGCAGCT  
GTGGATCTGGCTGCATCCAACCTTAAACAGGATATCTTAGAGGAAATAAAGCAGCGTGCCAGTGTGTG  
GAACCCATCAAATCAGCTGTCTGCATCGCTGACCCACTTCCAACACCATCCCAAGAAAAAGCCAAACTG  
AATTGCCTGACGAGAAAAATGGCAAGAAAAAGAAAGATGATGGAGAAAAATGCTAAACCAATTA  
AAAAATTATCGGTGATGGAAGTACAGATCCATGTCTACCATACTTGGATCTCTCAACACAGGCATT  
ATAATCAGCGATTTGACGATGGAGATGAACAGATTCGGGCTGATGGGCCACTTCCCACTCCATCTAA  
CTGAAGCAATAAAAGCTGCTTCTGTCCACTGTGGGAGAGGACACAGAGGAGACACCTCACCGCTGGT  
GATAGAAACCTGTAAGAAACCTGACAGCGTTTCCCTTCATTGCAGACAAGAAGCCATTTTCGAGTTGTTG



[View online »](#)

GGAGGAATAACATCACCAGCAGAAATCCGGCAGGTAATCTGGGACTGACAGTTGGGGATCCTCGAA  
 TAAATTTGCCCAAAGAAGTCCAACGCTTTGCCAATCCAGAAAAATGCCAAGATAATGAGAAAGTTAG  
 ACAGCTGCTTCTGGAGGGTGTGCCTGTGGAATGTACGCATAGCTTTATCTGGAACCAAGATATCTGTAAG  
 AGTGTACAGAGAATAAAATCTCGGATCAGGATTTAAACCGGATGAGGAGTGAATTGCTGGTGCCTGGGT  
 CACAGCTTATTTAGTCCCATGAATCCAAGTACCTATACTTTTATTGATTGAGCAGCCAGGAAAAGTGAC  
 TGGTGAAGATCGACTAGGCTGGGGAAGTGGCTGGGATGTCTACTCCAAAGGGCTGGGGCATGGCTTTC  
 TGGATTCATTTATTTATCGAGGTGTGAGAGTCGGAGGGTTGAAAGAGTCTGCAGTGCATTTCTCAGTATA  
 AGAGGTGCCTAATGTCCAGGCGATTTCCAGACTGCCCTGCCGGATGCTGTTTGCAGGAGCAAGC  
 TAAGAATCTTCTTAAAAAGTACAAAAGACGCCCTCCTGCAAAAACGGCCAACTACGTTAAGCTTGGCACT  
 CTGGCACCTTTCTGCTGTCCCTGGGAGCAGTAACTCAAGACTGGGAGTCAAGAGTCCAGGCTTACGAAG  
 AACCTTCTGTAGCTTCATCTCCAATGGTAAGGAGAGTGACCTAAGAAGATCTGAGGTGCCTTGTCTCC  
 CATGCCTAAAAAACTCATCAGCCATCTGATGAAGTGGGCACATCCATAGAGCACCCAGGGAGGCAGAG  
 GAGGTAATGGATGCAGGGTGTCAAGAATCGGCAGGGCCTGAGAGGATCACAGACCAGGAGCCAGTGA  
 ACCATGTTGCTGCCACAGGGAGTCACTCTGCGTTCTCAGGAGTAGAAAAATTACTGAAGCAACTGTCAGC  
 CTGGTGTGGGCCAGTTCTGAGGATAGTCGGGGAGGCCGGCGAGCTCCCGCAGAGGCCAGCAAGGATTG  
 ACCAGAGAGGCTTGCTGTCCATCTTGGGCCACTTCCCAAGGGCCCTGGTTTGGGTGAGCCTGTCCCTGC  
 TCAGCAAGGGCAGCCCCGAGCCTCACACCATGATCTGTGTCCAGCCAAGGAGGACTTCCCTCAGCTCCA  
 TGAGGACTGGCATTACTGTGGGCCCCAGGAATCCAAACACAGTGACCCATTAGGAGCAAGATCCTGAAA  
 CAGAAAGAGAAGAAGAAAAGGGAGAAGAGGCAGAACCCAGGACGTGCCTCTTCTGATGGCCCGCGGGGG  
 AAGAGCCCGTGGCTGGGCAGGAAGCTCTGACTCTAGGGCTGTGGTCAGGCCCTCTGCCCGTGTGACGTT  
 GCACTGCTCCAGAACTCTCTAGGCTTTGTGACTCAGGGAGATTTTTCCATGGCTGTTGGCTGTGGAGAA  
 GCCCTGGGGTTTGTAGCTTGACAGGCTTGCTGGATATGGTGTCCAGCCAGCCTGCAGCCGAGAGGGCT  
 TAGTGTACTGAGGCCTCCCGCTCTCTGCAGTATCGATTGCGAGGATTGCTATTGAGGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG203861 representing NM\_015029  
 Red=Cloning site Green=Tags(s)

MSNAKERKHAKMNRNQTNTVTLSSGFVADRGVKHHSNGEKPFAQKQEPHPGTSRQRQTRVNPVSLPDPE  
 VNEQSSSKGMFRKKGGWKAGPEGTSQEIPKYITASTFAQARAAEISAMLKAVTQKSSNSLVFQTLPRHMR  
 RRAMSHNVKRLPRRLQEIAQKEAEKAVHQKKEHNSKNKCHKARRCHMNRTEFNRRQKNIWLETHIWHAK  
 RFHMVKKWGYCLGERPTVKSHRACYRAMNRCLLQDL SYYCCLELKGKEEELKALSGMNCIDTGLTFAA  
 VHCLSGKRQGSLLVLRVNYPREMLGPVTFIWKSRTPGDPSESRLWIWLHPTLKQDILEEIKAAACQCV  
 EPIKSAVCIADPLPTPSQEQSQTTEL PDEKIGKKRKRKDDGENAKPIKKIIGDGTDRDCLPYSWISPTTGI  
 IISDLTMEMNRFLIGPLSHSILTEAIIKAAVHTVGEDTEETPHRWWIETCKKPDSVSLHCRQEAIFELL  
 GGITSPAEPAGTILGLTVGDPRLNLPQKSNALPNPEKQDNEKVRQLLLEGVPECTHSFIWNQDICK  
 SVTENKISDQDLNMRSELLVPGSQLILGPHEKIPILLIQQPGKVTGEDRLGWGSGWDVLLPKGWGMFA  
 WIPFIYRGVVRVGLKESAVHSQYKRSPNVPDFPDCPAGMLFAEEQAKNLEKYKRRPPAKRPNYVKLGT  
 LAPFCCPWEQLTQDWESRVQAYEESPVASSPNGKESDLRRSEVPCAPMPKTHQPSDEVGTSIEHPREAE  
 EVM DAGQESAGPERITDQEASENHVAATGSHLCVLRSLKLLKQLSAWCGPSSSEDSRGGRRAPGRGQGL  
 TREACL S I L G H F P R A L V W V S L S L L S K G S P E P H T M I C V P A K E D F L Q L H E D W H Y C G P Q E S K H S D P F R S K I L K  
 QKEKKKREKRQKPGRASSDGPAGEEPVAGQEALTLGLWSGPLPRVTLHCSRTLLGFVTQGD F S M A V G C G E  
 ALGFVSLTGLDMVSSQPAQRGLVLLRPPASLQYRFARIAIEV

TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



ACCN: NM\_015029

ORF Size: 3072 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:

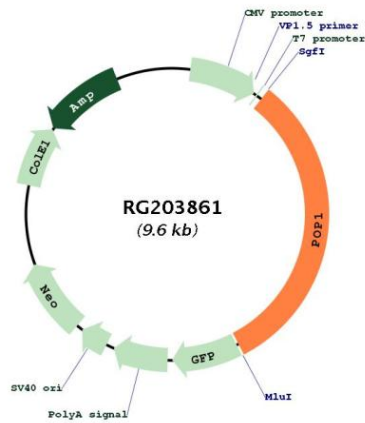
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM\\_015029.1](#), [NP\\_055844.1](#)

RefSeq Size: 3269 bp

RefSeq ORF: 3075 bp  
 Locus ID: 10940  
 UniProt ID: [Q99575](#)  
 Cytogenetics: 8q22.2  
 Protein Families: Stem cell - Pluripotency  
 Gene Summary: This gene encodes the protein subunit of two different small nucleolar ribonucleoprotein complexes: the endoribonuclease for mitochondrial RNA processing complex and the ribonuclease P complex. The encoded protein is a ribonuclease that localizes to the nucleus and functions in pre-RNA processing. This protein is also an autoantigen in patients suffering from connective tissue diseases. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2009]

**Product images:**



Circular map for RG203861