

## Product datasheet for RC203861

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	POP1 (NM_015029) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	POP1
Synonyms:	ANXD2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203861 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCAAATGCAAAAGAAAGAAAACACGCCAAGAAAATGAGAAACCAGCCTACCAATGTGACTCTGTCTCTGGCTTTGTGGCTGACAGAGGTGTAAGCACCACAGTGGAGGTGAAAAACCTTTCCAAGCTCAAAAACAAGAGCCTCATCTGGAACCTCACGACAGCGCAAACCAGAGTCAACCCCACTTCTGCTGACCCTGAA GTGAATGAGCAGTCTTCTCCAAAGGGATGTTTAGAAAAAGGGAGGATGAAAGCAGGTCCCGAGGGCA CGTCTCAGGAGATCCCAAGTATAAATGCTTCTACTTTTGCTCAAGCAGGAGTGTGAAATCAGTGC TATGTTAAAAGCTGTGACCCAGAAGTCTTGAATTCAGTGGTTTTTCAGACTCTGCCACGGCACATGCGA CGAAGAGCCATGAGCCACAACGTCAAACGCCTTCCAGACGGTTACAGGAGATTGCCAGAAAGAGGCGG AGAAAGCCGTACATCAGAAAAAGAACATTCAAAAATAAATGCCATAAAGCTCGAAGATGTCACATGAA CCGGACGCTAGAATTTAACCGTAGACAAAAGAAGAACATTTGGTTAGAAACTCACATCTGGCAGCCAAAG CCGTTTTCATATGGTCAAGAAGTGGGGCTACTGCCTTGGGAGAGGCCAACAGTCAAGAGCCACAGAGCCT GCTATCGAGCCATGACGAACCGGTGCCTCCTGCAGGATTTATCCTATTACTGTTGTTGGAGTTGAAAGG CAAAGAGGAAGAAATACTAAAGGCGCTTCTGGAATGTGAACATAGACACAGGGCTGACGTTTGCAGCA GTTCACTGCTTGTCTGGAAGCGCAAAGGAGCCTTGTGCTTTATCGGGTGAATAAATATCCAGAGAAA TGCTTGGCCTGTACGTTTATCTGGAAGTCCCAGAGGACCCCGGGTACCCTTCTGAGAGCAGGCAGCT GTGGATCTGGCTGCATCCAACCCTTAAACAGGATATCTTAGAGGAAATAAAGCAGCGTGCCAGTGTGTG GAACCCATCAAATCAGCTGTCTGCATCGCTGACCCACTTCCAACACCATCCCAAGAAAAAGCCAAACTG AATTGCCTGACGAGAAAAATGGCAAGAAAAAGAAAGATGATGGAGAAAAATGCTAAACCAATTA AAAAAATTATCGGTGATGGAAGTACAGATCCATGTCTACCATACTTTGGATCTCTCAACACAGGCATT ATAATCAGCGATTTGACGATGGAGATGAACAGATTCGGGCTGATGGGCCACTTTCCCACTCCATCTAA CTGAAGCAATAAAAGCTGCTTCTGTCCACTGTGGGAGAGGACACAGAGGAGACACCTCACCGCTGGTG GATAGAAACCTGTAAGAAACCTGACAGCGTTTCCCTTCATTGCAGACAAGAAGCCATTTTCGAGTTGTTG



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GGAGGAATAACATCACCAGCAGAAATCCGGCAGGTAATCTGGGACTGACAGTTGGGGATCCTCGAA  
 TAAATTTGCCCAAAGAAGTCCAACGCTTTGCCAATCCAGAAAAATGCCAAGATAATGAGAAAGTTAG  
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 AGAGGTGCCTAATGTCCAGGCGATTTTCCAGACTGCCCTGCCGGATGCTGTTTTCGCGAAGAGCAAGC  
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 CTGGCACCTTTCTGCTGTCCCTGGGAGCAGTAACTCAAGACTGGGAGTCAAGAGTCCAGGCTTACGAAG  
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 AAGAGCCCGTGGCTGGGCAGGAAGCTCTGACTCTAGGGCTGTGGTCAGGCCCTCTGCCGCGTGTGACGTT  
 GCACTGCTCCAGAAGCTCTCTAGGCTTTGTGACTCAGGGAGATTTTTCCATGGCTGTTGGCTGTGGAGAA  
 GCCCTGGGGTTTGTAGCTTGACAGGCTTGCTGGATATGGTGTCCAGCCAGCCTGCAGCCGAGAGGGGCT  
 TAGTGTACTGAGGCCTCCCGCTCTCTGCAGTATCGATTGCGAGGATTGCTATTGAGGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC203861 protein sequence  
 Red=Cloning site Green=Tags(s)

MSNAKERKHAKKMRNQPTNVTLSSGFVADRGVKKHHSNGEKPFAQKQEPHPGTSRQRQTRVNPVHSLPDPE  
 VNEQSSSKGMFRKKGGWKAGPEGTSQEIPKYITASTFAQARAAEISAMLKAVTQKSSNSLVFQTLPRHMR  
 RRAMSHNVKRLPRRLQEIAQKEAEKAVHQKKEHSKNKCHKARRCHMNRTEFNRRQKKNIWLETHIWHAK  
 RFHMVKKWGYCLGERPTVKSHRACYRAMTNRLLQDL SYYCCLELKGKEEELKALSGMCNIDTGLTFAA  
 VHCLSGKRQGSLLVLRVNYPREMLGPVTFIWKSRTPGDPSESRQLWIWLHPTLQDILEEIKAACQCV  
 EPIKSAVCIADPLPTPSQEQSQTLPDEKIGKKRKRKDDGENAKPIKKIIGDGTRDPLPYSWISPTTGI  
 IISDLTMEVNRFRILGPLSHSILTEAIIKAAVHTVGEDTEETPHRWIETCKKPDSVSLHCRQEAIFELL  
 GGITSPAEPAGTILGLTVGDPRINLPQKKSALPNPEKQDNEKVRQLLEGVPECTHSFIWNQDICK  
 SVTENKISDQDLNMRSELLVPGSQLILGPHEKIPILLIQPGKVTGEDRLGWGSGWDVLLPKGWGMFAF  
 WIPFIYRGVVRVGLKESAVHSQYKRSPNVPDGFDPAGMLFAEEQAKNLLKRYKRRPPAKRPNYVKGLT  
 LAPFCCPWEQLTQDWESRVQAYEEPSVASSPNGKESDLRRSEVPCAPMPKTHQPSDEVGTSIEHPREAE  
 EVM DAGQESAGPERITDQEASENHVAATGSHLCVLRSLKQLSAWCGPSSSESRGRRAPGRGQQGL  
 TREACLILGHFPRALVWVSL SLLSKGSPEPHTMICVPAKEDFLQLHEDWHYCGPQESKHSDFFRSKILK  
 QKEKKKREKRQKPGRASSDGPAGEEPVAGQEALTLGLWSGPLPRVTLHCSRTLLGFVTQGDVSMVAVGCGE  
 ALGFVSLTGLLDVSSQPAARGLVLLRPPASLQYRFARIAIEV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6208\\_e03.zip](https://cdn.origene.com/chromatograms/mk6208_e03.zip)

**Restriction Sites:**

Sgfl-Mlul

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](#)

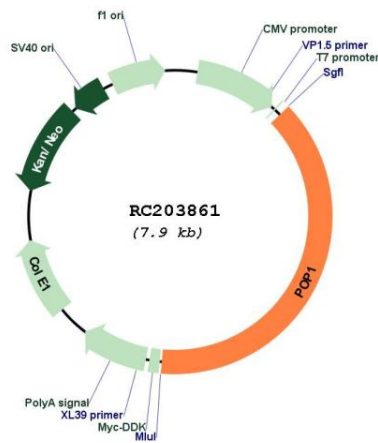
RefSeq Size: 4689 bp

RefSeq ORF: 3075 bp

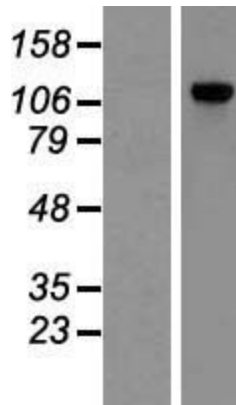
Locus ID: 10940

**UniProt ID:** [Q99575](#)  
**Cytogenetics:** 8q22.2  
**Protein Families:** Stem cell - Pluripotency  
**MW:** 114.7 kDa  
**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 RC203861



Western blot validation of overexpression lysate (Cat# [LY429038]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC226611] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).