

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**

ATGTCAAATGCAAAGAAAGAAAACACGCCAAGAAAATGAGAAACCAGCCTACCAATGTGACTCTGTCTCTGGCTTTGTGGCTGACAGAGGTGTAAGCACCACAGTGGAGGTGAAAAACCTTTCCAAGCTCAAAAACAAGAGCCTCATCTGGAACCTCACGACAGCGCAAACCAGAGTCAACCCCATCTCTGCCTGACCCTGAA GTGAATGAGCAGTCTTCTCAAAGGGATGTTTAGAAAAAGGGAGGATGAAAGCAGGTCCCGAGGGCA CGTCTCAGGAGATCCCAAGTATAAATGCTTCTACTTTTGCTCAAGCAGGAGTGTGAAATCAGTGC TATGTTAAAAGCTGTGACCCAGAAGTCTTGAATTCAGTGGTTTTTCAGACTCTGCCACGGCACATGCGA CGAAGAGCCATGAGCCACAACGTCAAACGCCTCCAGACGGTTACAGGAGATTGCCAGAAAGAGGCGG AGAAAGCCGTACATCAGAAAAAAGAACATTAATAAATGCCATAAAGCTCGAAGATGTCACATGAA CCGGACGCTAGAATTTAACCGTAGACAAAAGAAGAACATTTGGTTAGAACTCACATCTGGCAGCCAAAG CCGTTTTCATATGGTCAAGAAGTGGGGCTACTGCCTTGGGAGAGGCCAACAGTCAAGAGCCACAGAGCCT GCTATCGAGCCATGACGAACCGGTGCCTCCTGCAGGATTTATCCTATTACTGTTGTTGGAGTTGAAAGG CAAAGAGGAAGAAATACTAAAGGCGCTTCTGGAATGTGAACATAGACACAGGGCTGACGTTTGACGCA GTTCACTGCTTGTCTGGAAGCGCAAGGGAGCCTTGTGCTTTATCGGGTGAATAAATATCCAGAGAAA TGCTTGGCCTGTTACGTTTATCTGGAAGTCCCAGAGGACCCCGGGTACCCTTCTGAGAGCAGGCAGCT GTGGATCTGGCTGCATCCAACCTTAAACAGGATATCTTAGAGGAAATAAAGCAGCGTGCCAGTGTGTG GAACCCATCAAATCAGCTGTCTGCATCGCTGACCCACTTCAAACACCATCCCAAGAAAAAGCCAAACTG AATTGCCTGACGAGAAAAATGGCAAGAAAAAGAAAGATGATGGAGAAAAATGCTAAACCAATTA AAAAAATTATCGGTGATGGAAGTACAGATCCATGTCTACCATACTTTGGATCTCTCAACACAGGCATT ATAATCAGCGATTTGACGATGGAGATGAACAGATTCGGGCTGATGGGCCACTTTCCCACTCCATCTAA CTGAAGCAATAAAAGCTGCTTCTGTCCACTGTGGGAGAGGACACAGAGGAGACACCTCACCGCTGGTG GATAGAAACCTGTAAGAAACCTGACAGCGTTTCCCTTCATTGCAGACAAGAAGCCATTTTCGAGTTGTTG



[View online »](#)

GGAGGAATAACATCACCAGCAGAAATCCGGCAGGTAATCTGGGACTGACAGTTGGGGATCCTCGAA
 TAAATTTGCCCAAAGAAGTCCAACGCTTTGCCAATCCAGAAAAATGCCAAGATAATGAGAAAGTTAG
 ACAGCTGCTTCTGGAGGGTGTGCCTGTGGAATGTACGCATAGCTTTATCTGGAACCAAGATATCTGTAAG
 AGTGTACAGAGAATAAAATCTCGGATCAGGATTTAAACCGGATGAGGAGTGAATTGCTGGTGCCTGGGT
 CACAGCTTATTTAGTCCCATGAATCCAAGTACCTATACTTTTATTGATTGAGCAGCCAGGAAAAGTGAC
 TGGTGAAGATCGACTAGGCTGGGGAAGTGGCTGGGATGTCTACTCCAAAGGGCTGGGGCATGGCTTTC
 TGGATTCATTTATTTATCGAGGTGTGAGAGTCGGAGGGTTGAAAGAGTCTGCAGTGCATTTCTCAGTATA
 AGAGGTGCCTAATGTCCAGGCGATTTTCCAGACTGCCCTGCCGGATGCTGTTTTCGGAAGAGCAAGC
 TAAGAATCTTCTTAAAAAGTACAAAAGACGCCCTCCTGCAAAAACGGCCAACTACGTTAAGCTTGGCACT
 CTGGCACCTTTCTGCTGTCCCTGGGAGCAGTAACTCAAGACTGGGAGTCAAGAGTCCAGGCTTACGAAG
 AACCTTCTGTAGCTTCATCTCCAATGGTAAGGAGAGTGACCTAAGAAGATCTGAGGTGCCTTGTCTCC
 CATGCCTAAAAAACTCATCAGCCATCTGATGAAGTGGGCACATCCATAGAGCACCCAGGGAGGCAGAG
 GAGGTAATGGATGCAGGGTGTCAAGAATCGGCAGGGCCTGAGAGGATCACAGACCAGGAGCCAGTGAAA
 ACCATGTTGCTGCCACAGGGAGTCACTCTGCGTTCTCAGGAGTAGAAAAATTACTGAAGCAACTGTCAGC
 CTGGTGTGGGCCAGTTCTGAGGATAGTCGGGGAGGCCGGCGAGCTCCCGCAGAGGCCAGCAAGGATTG
 ACCAGAGAGGCTTGCCTGTCCATCTTGGGCCACTTCCCAAGGGCCCTGGTTTGGGTGAGCCTGTCCCTGC
 TCAGCAAGGGCAGCCCGAGCCTCACACCATGATCTGTGTCCAGCCAAGGAGGACTTCCCTCAGCTCCA
 TGAGGACTGGCATTACTGTGGGCCCCAGGAATCCAAACACAGTGACCCATTAGGAGCAAGATCCTGAAA
 CAGAAAGAGAAGAAGAAAAGGGAGAAGAGGCAGAAGCCAGGACGTGCCTCTTCTGATGGCCCGCGGGGG
 AAGAGCCCGTGGCTGGGCAGGAAGCTCTGACTCTAGGGCTGTGGTCAGGCCCTCTGCCGCGTGTGACGTT
 GCACTGCTCCAGAACTCTCTAGGCTTTGTGACTCAGGGAGATTTTTCCATGGCTGTTGGCTGTGGAGAA
 GCCCTGGGGTTTGTAGCTTGACAGGCTTGCTGGATATGGTGTCCAGCCAGCCTGCAGCCGAGAGGGGCT
 TAGTGTACTGAGGCCTCCCGCTCTCTGCAGTATCGATTGCGAGGATTGCTATTGAGGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

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

MSNAKERKHAKMNRNQTNTVTLSSGFVADRGVKKHHSNGEKPFAQKQEPHPGTSRQRQTRVNPHSLPDPE
 VNEQSSSKGMFRKKGGWKAGPEGTSQEIPKYITASTFAQARAAEISAMLKAVTQKSSNSLVFQTLPRHMR
 RRAMSHNVKRLPRRLQEIAQKEAEKAVHQKKEHSKNKCHKARRCHMNRTEFNRRQKKNIWLETHIWHAK
 RFHMVKKWGYCLGERPTVKSHRACYRAMTNRCLLQDL SYYCCLELKGKEEELKALSGMCNIDTGLTFAA
 VHCLSGKRQGSLLVLRVKNYPREMLGPVTFIWKSRTPGDPSESRQLWIWLHPTLQDILEEIKAACQCV
 EPIKSAVCIADPLPTPSQEQSQTLPDEKIGKKRKRKDDGENAKPIKKIIGDGTRDPLPYSWISPTTGI
 IISDLTMEENRFRLIGPLSHSILTEAIIKAAVHTVGEDTEETPHRWIETCKKPDSVSLHCRQEAIFELL
 GGITSPAEPAGTILGLTVGDPRINLPQKKSALPNPEKQDNEKVRQLLEGVPECTHSFIWNQDICK
 SVTENKISDQDLNMRSELLVPGSQLILGPHEKIPILLIQPGKVTGEDRLGWGSGWDVLLPKGWGMFAF
 WIPFIYRGVVRVGLKESAVHSQYKRSPNVPDGFDPDPAAGMLFAEEQAKNLLKRYKRRPPAKRPNYVKG
 LAPFCCPWEQLTQDWESRVQAYEEPSVASSPNGKESDLRRSEVPCAPMPKTHQPSDEVGTSIEHPREAE
 EVM DAGCQESAGPERITDQEASENHVAATGSHLCVLRSLKQLSAWCGPSSDSRGGRRAPGRGQQGL
 TREACLILGHFPRALVWVSL SLLSKGSPEPHTMICVPAKEDFLQLHEDWHYCGPQESKHSDFFRSKILK
 QKEKKKREKRQKPGRASSDGPAGEEPVAGQEALTLGLWSGPLPRVTLHCSRTLLGFVTQGDFSMVAGCGE
 ALGFVSLTGLLDVSSQPAARGLVLLRPPASLQYRFARIAIEV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

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.

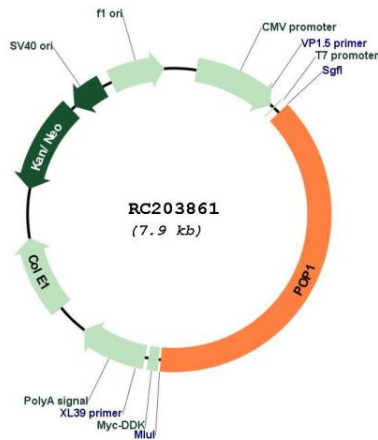
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_015029.1](#), [NP_055844.1](#)

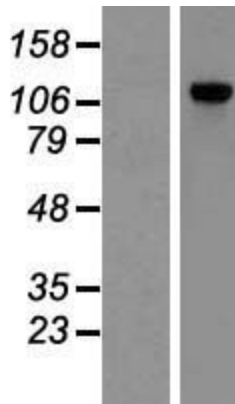
RefSeq Size: 4689 bp

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]).