

Product datasheet for RC226611

POP1 (NM_001145861) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POP1 (NM_001145861) 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:	>RC226611 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCAAATGCAAAAGAAAGAAAACACGCCAAGAAAATGAGAAACCAGCCTACCAATGTGACTCTGTCTCT
CTGGCTTTGTGGCTGACAGAGGTGTAAGCACCACAGTGGAGGTGAAAAACCTTTCCAAGCTCAAAAACA
AGAGCCTCATCTGGAACCTCACGACAGCGCAAACCAGAGTCAACCCCATCTCTGCCTGACCCTGAA
GTGAATGAGCAGTCTTCTCAAAGGGATGTTTAGAAAAAGGGAGGATGAAAGCAGGTCCCGAGGGCA
CGTCTCAGGAGATCCCAAGTATAAATGCTTCTACTTTTGCTCAAGCAGAGCTGCTGAAATCAGTGC
TATGTTAAAAGCTGTGACCCAGAAGTCTTGAATTCAGTGGTTTTTCAGACTCTGCCACGGCACATGCGA
CGAAGAGCCATGAGCCACAACGTCAAACGCCTCCAGACGGTTACAGGAGATTGCCAGAAAGAGGCGG
AGAAAGCCGTACATCAGAAAAAGAACATTCAAAAATAAATGCCATAAAGCTCGAAGATGTCACATGAA
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CGGTTTCATATGGTCAAGAAGTGGGGCTACTGCCTTGGGAGAGGGCAACAGTCAAGAGCCACAGAGCCT
GCTATCGAGCCATGACGAACCGGTGCCTCCTGCAGGATTTATCCTATTACTGTTGTTGGAGTTGAAAGG
CAAAGAGGAAGAAATACTAAAGGCGCTTCTGGAATGTGAACATAGACACAGGGCTGACGTTTGCAGCA
GTTCACTGCTTGTCTGGAAGCGCAAGGGAGCCTTGTGCTTTATCGGGTGAATAAATATCCAGAGAAA
TGCTTGGCCTGTTACGTTTATCTGGAAGTCCCAGAGGACCCCGGGTACCCTTCTGAGAGCAGGCAGCT
GTGGATCTGGCTGCATCCAACCTTAAACAGGATATCTTAGAGGAAATAAAGCAGCGTGCCAGTGTGTG
GAACCCATCAAATCAGCTGTCTGCATCGCTGACCCACTTCAAACCCATCCCAAGAAAAAGCCAAACTG
AATTGCCTGACGAGAAAAATGGCAAGAAAAAGAAAGATGATGGAGAAAAATGCTAAACCAATTA
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GATAGAAACCTGTAAGAAACCTGACAGCGTTTCCCTTCATTGCAGACAAGAAGCCATTTTCGAGTTGTTG



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GGAGGAATAACATCACCAGCAGAAATCCGGCAGGTAATCTGGGACTGACAGTTGGGGATCCTCGAA
 TAAATTTGCCCAAAGAAGTCCAACGCTTTGCCAATCCAGAAAAATGCCAAGATAATGAGAAAGTTAG
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC226611 protein sequence
 Red=Cloning site Green=Tags(s)

MSNAKERKHAKMNRNQTNTVTLSSGFVADRGVKKHHSNGEKPFAQKQEPHPGTSRQRQTRVNPVHSLPDPE
 VNEQSSSKGMFRKKGGWKAGPEGTSQEIPKYITASTFAQARAAEISAMLKAVTQKSSNSLVFQTLPRHMR
 RRAMSHNVKRLPRRLQEIAQKEAEKAVHQKKEHSKNKCHKARRCHMNRTEFNRRQKKNIWLETHIWHAK
 RFHMVKKWGYCLGERPTVKSHRACYRAMTNRCLLQDL SYYCCLELKGKEEELKALSGMCNIDTGLTFAA
 VHCLSGKRQGSLLVLRVNYPREMLGPVTFIWKSRTPGDPSESRQLWIWLHPTLQDILEEIKAACQCV
 EPIKSAVCIADPLPTPSQEQSQTLPDEKIGKKRKRKDDGENAKPIKKIIGDGTRDPLPYSWISPTTGI
 IISDLTMEVNRFRILGPLSHSILTEAIIKAAVHTVGEDTEETPHRWIETCKKPDSVSLHCRQEAIFELL
 GGITSPAEPAGTILGLTVGDPRINLPQKKSALPNPEKQDNEKVRQLLEGVPECTHSFIWNQDICK
 SVTENKISDQDLNMRSELLVPGSQLILGPHEKIPILLIQPGKVTGEDRLGWGSGWDVLLPKGWGMFA
 WIPFIYRQVYRGGGLKESAVHSQYKRSPNVPDGFDPAGMLFAEEQAKNLLKRYKRRPPAKRPNYVKG
 LAPFCCPWEQLTQDWESRVQAYEEPSVASSPNGKESDLRRSEVPCAPMPKTHQPSDEVGTSIEHPREAE
 EVM DAGQESAGPERITDQEASENHVAATGSHLCVLRSLKQLSAWCGPSSSESRGRRAPGRGQQGL
 TREACLILGHFPRALVWVSL SLLSKGSPEPHTMICVPAKEDFLQLHEDWHYCGPQESKHSDFFRSKILK
 QKEKKKREKRQKPGRASSDGPAGEEPVAGQEALTLGLWSGPLPRVTLHCSRTLLGFVTQGDVSMVAVGCGE
 ALGFVSLTGLLDVSSQPAARGLVLLRPPASLQYRFARIAIEV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6208_e03.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001145861

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_001145861.1](#), [NP_001139333.1](#)

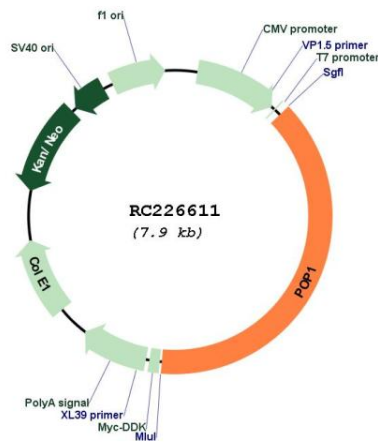
RefSeq Size: 4701 bp

RefSeq ORF: 3075 bp

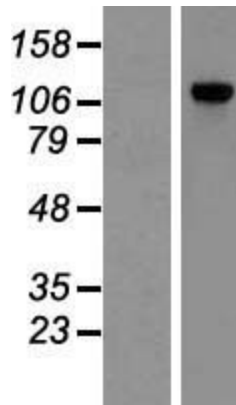
Locus ID: 10940

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 RC226611



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]).