

## Product datasheet for **SC326508**

### POP1 (NM\_001145861) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	POP1 (NM_001145861) Human Untagged Clone
Tag:	Tag Free
Symbol:	POP1
Synonyms:	ANXD2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC326508 representing NM_001145861. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTGACTG
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 TTGCTGGATGCTGTCCAGCCAGCCTGCAGCGCAGAGGGGCTTAGTGTACTGAGGCCTCCCGCCTCT  
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 ACGCGTACGCGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT  
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001145861
- Insert Size:** 3075 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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](#)

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]  
Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1, 2 and 3 encode the same protein.