

## Product datasheet for **SC302702**

### PAIP2 (NM\_001033112) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PAIP2 (NM_001033112) Human Untagged Clone
Tag:	Tag Free
Symbol:	PAIP2
Synonyms:	PAIP-2; PAIP2A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC302702 representing NM_001033112. Blue=Insert sequence Red=Cloning site Green=Tag(s)

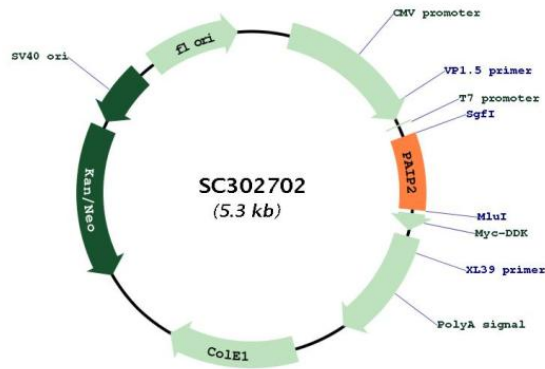
```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAAAGATCCAAGTCGCAGCAGTACTAGCCCAAGCATCATCAATGAAGATGTGATTATTAACGGTCAT
TCTCATGAAGATGACAATCCATTTGCAGAGTACATGTGGATGGAAAATGAAGAAGAATCAACAGACAA
ATAGAAGAGGAGTTATGGGAAGAAGAATTTATTGAACGCTGTTTCCAAGAAATGCTGGAAGAGGAAGAA
GAGCATGAATGGTTTATCCAGCTCGAGATCTCCACAACTATGGACCAATCCAAGACCAGTTTAAAT
GACCTTGTATCAGTGATGGCTCTCTCTGGAAGATCTTGTGGTCAAGAGCAATCTGAATCCAAATGCA
AAGGAGTTTGTTCTGGGGTGAAGTACGGAATATTTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: Sgfl-MluI



[View online »](#)

Plasmid Map:



**ACCN:** NM\_001033112

**Insert Size:** 384 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\\_001033112.2](#)

**RefSeq Size:** 1532 bp

**RefSeq ORF:** 384 bp

**Locus ID:** 51247

**UniProt ID:** [Q9BPZ3](#)

**Cytogenetics:** 5q31.2

**MW:** 15 kDa

**Gene Summary:** Acts as a repressor in the regulation of translation initiation of poly(A)-containing mRNAs. Its inhibitory activity on translation is mediated via its action on PABPC1. Displaces the interaction of PABPC1 with poly(A) RNA and competes with PAIP1 for binding to PABPC1. Its association with PABPC1 results in disruption of the cytoplasmic poly(A) RNP structure organization.[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (1) represents the longest transcript and encodes the functional protein. Both variants 1 and 2 encode the same protein.