

Product datasheet for **SC114242**

PAIP2 (NM_016480) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PAIP2 (NM_016480) Human Untagged Clone
Tag:	Tag Free
Symbol:	PAIP2
Synonyms:	PAIP-2; PAIP2A
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC114242 sequence for NM_016480 edited (data generated by NextGen Sequencing)

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ATGAAAGATCCAAGTCGCAGCAGTACTAGCCCAAGCATCATCAATGAAGATGTGATTATT
AACGGTCATTCTCATGAAGATGACAATCCATTTGCAGAGTACATGTGGATGGAAAATGAA
GAAGAATTCAACAGACAAATAGAAGAGGAGTTATGGGAAGAAGAATTTATTGAACGCTGT
TTCCAAGAAATGCTGGAAGAGGAAGAAGAGCATGAATGGTTTATCCAGCTCGAGATCTC
CCACAACTATGGACCAATCCAAGACCAGTTTAAATGACCTTGTTATCAGTGATGGCTCT
TCTCTGGAAGATCTTGTGGTCAAGAGCAATCTGAATCCAATGCAAAGGAGTTTGTTCCT
GGGGTGAAGTACGGAAATATTTGA
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Clone variation with respect to NM_016480.3



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_016480 unedited AAGGTGCACATTAGGTTATACGACTCATATAGGGCGCCGCAATTCGCACGAGGAGGCCG GCGGGCGAAGCGCACGTCGAGCGGGGAGCGGCCTGCCTGTGGAGATCCGCGGAGGCCG ACAGGATTCGTTGGCTGCCGTCCTCCCGCTGCTGTGCATTGGGTTAAAAACGACAACCAACA TCAGCCATGAAAGATCCAAGTCGCAGCAGTACTAGCCCAAGCATCATCAATGAAGATGTG ATTATTAACGGTCATTCTCATGAAGATGACAATCCATTTGCAGAGTACATGTGGATGGAA AATGAAGAAGAATTCAACAGACAAATAGAAGAGGAGTTATGGGAAGAAGAATTTATTGAA CGCTGTTTCCAAGAAATGCTGGAAGAGGAAGAAGAGCATGAATGGTTTATTCCAGCTCGA GATCTCCACAAAATATGGACCAATCCAAGACCAGTTTAAATGACCTTGTATCAGTGAT GGCTCTTCTCTGGAAGATCTTGTGGTCAAGAGCAATCTGAATCCAAATGCAAAGGAGTTT GTTCTGGGGTGAAGTACGGAATATTTGAGTAGACGGGGCCCTCTTTGGTGGATGTAG CACAATTTCCACACTGTGAAGGCAGTATTAGAAGACTTAATTGTAAGCTCTCTGTCA CTGTGTTACACTTATGCATTGCCAAAGTTTTTGTAGTCTTGCATGCTTAATAAAAGTGC TGAGACTGTTACTAAGTAAAAAGCTGTCAAACATTTACTGAAAAATGAATGGCCCCATG GCTTGATGTGAAGACAGCACGGAAGAACCAGTCAAGTTGTGAACAAGCCCCAATTA AGACCTAACCTTACCAAATGTCTTTTTTTGAGGCTATCTACTGTTAATGGTTAACT TTAAATCATACATTTAATTTGATTCCAAA
Restriction Sites:	NotI-NotI
ACCN:	NM_016480
Insert Size:	1250 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).
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:	<ol style="list-style-type: none">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_016480.2 , NP_057564.2
RefSeq Size:	1514 bp
RefSeq ORF:	384 bp
Locus ID:	51247
UniProt ID:	Q9BPZ3
Cytogenetics:	5q31.2

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 (2) differs in the 5' UTR, compared to variant 1. Both variants 1 and 2 encode the same protein.