

Product datasheet for **RC207342**

PAIP2 (NM_016480) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PAIP2 (NM_016480) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: PAIP2
Synonyms: PAIP-2; PAIP2A
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC207342 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAAGATCCAAGTCGCAGCAGTACTAGCCCAAGCATCATCAATGAAGATGTGATTATTAACGGTCATT
CTCATGAAGATGACAATCCATTTGCAGAGTACATGTGGATGGAAAATGAAGAAGAATTCAACAGACAAAT
AGAAGAGGAGTTATGGGAAGAAGAATTTATTGAACGCTGTTTCCAAGAAATGCTGGAAGAGGAAGAAGAG
CATGAATGGTTTATTCCAGCTCGAGATCTCCACAAACTATGGACCAAATCCAAGACCAGTTTAATGACG
TTGTTATCAGTGATGGCTCTTCTCTGGAAGATCTTGTGGTCAAGAGCAATCTGAATCCAATGCAAAGGA
GTTTGTTCTGGGTGAAGTACGGAAATATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC207342 protein sequence
Red=Cloning site Green=Tags(s)
MKDPSRSSTSPSIINEDVIINGHSHEDDNPFAEYMWENEEEEFNRIIEEELWEEEFIERCFQEMLEEEEE
HEWFIPARDLPQTMQIQDQFNDVVISDGSLEDLVKSNLNPNAKEFVPGVKYGNL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6239_b05.zip

Restriction Sites: SgfI-MluI



[View online »](#)

Cloning Scheme:


ACCN: NM_016480

ORF Size: 381 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_016480.5](#)

RefSeq Size: 1498 bp

RefSeq ORF: 384 bp

Locus ID: 51247

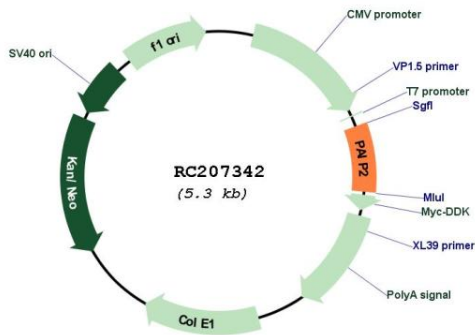
UniProt ID: [Q9BPZ3](#)

Cytogenetics: 5q31.2

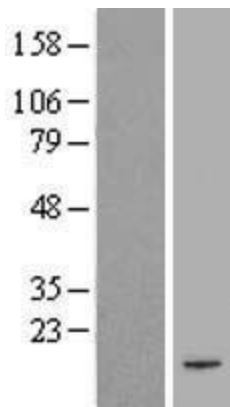
MW: 15 kDa

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]

Product images:



Circular map for RC207342



Western blot validation of overexpression lysate (Cat# [LY413956]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207342 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).