

Product datasheet for **RC219314**

PAIP2B (NM_020459) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PAIP2B (NM_020459) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: PAIP2B
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC219314 representing NM_020459
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAATGGATCCAATATGGCAAATACATCACCGAGTGTAAAATCCAAAGAGGACCAGGGGTTAAGTGGGC
ACGATGAAAAGGAAAACCCATTTGCAGAGTACATGTGGATGGAGAATGAAGAGGATTTCAACAGACAGGT
GGAGGAGGAAGTGCAGGAGCAAGACTTCTTGGACCGCTGCTTCCAAGAGATGCTGGATGAAGAAGACCAA
GACTGGTTTATCCCTCACGAGACCTGCCTCAGGCCATGGGACAGTTGCAACAGCAGTTAAATGGACTGT
CAGTCAGTGAAGGTCATGATTCTGAAGATATTTGAGCAAAGTAACCTGAACCCAGATGCCAAGGAGTT
TATTCAGGAGAGAAGTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC219314 representing NM_020459
Red=Cloning site Green=Tags(s)
MNGSNMANTSPSVKSKEDQGLSGHDEKENPFAEYMWMEEDFNQVVEEELQEQDFLDRCFQEMLDEEDQ
DWFIPSRDLPQAMGQLQQQLNGLSVSEGHSEDIILSKSNLNPDAKEFIPGEKY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8022_b05.zip

Restriction Sites: Sgfl-MluI



[View online »](#)

Cloning Scheme:


ACCN: NM_020459

ORF Size: 369 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_020459.1](#), [NP_065192.1](#)

RefSeq Size: 6300 bp

RefSeq ORF: 372 bp

Locus ID: 400961

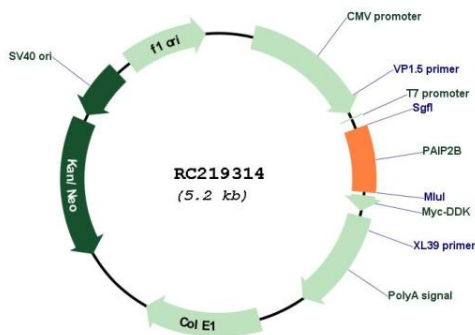
UniProt ID: [Q9ULR5](#)

Cytogenetics: 2p13.3

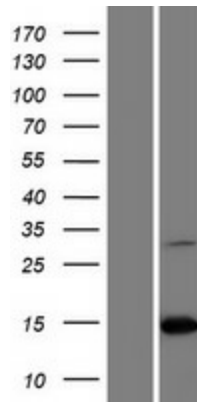
MW: 14.1 kDa

Gene Summary: Most mRNAs, except for histones, contain a 3-prime poly(A) tail. Poly(A)-binding protein (PABP; see MIM 604679) enhances translation by circularizing mRNA through its interaction with the translation initiation factor EIF4G1 (MIM 600495) and the poly(A) tail. Various PABP-binding proteins regulate PABP activity, including PAIP1 (MIM 605184), a translational stimulator, and PAIP2A (MIM 605604) and PAIP2B, translational inhibitors (Derry et al., 2006 [PubMed 17381337]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RC219314



Western blot validation of overexpression lysate (Cat# [LY412464]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219314 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).