

Product datasheet for **RC219691**

PABPC4 (NM_003819) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PABPC4 (NM_003819) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PABPC4
Synonyms:	APP-1; APP1; iPABP; PABP4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC219691 representing NM_003819
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAACGCTGCGCCAGCAGCTACCCCATGGCCTCCCTGTACGTGGGCGACCTGCATTGCGACGTCACCG
 AGGCCATGCTGTACGAAAAGTTCAGCCCGCGGGCCTGTGCTGTCCATCCGGGTCTGCCGCGATATGAT
 CACCCGCGCTCCCTGGGCTATGCCTACGTCAACTTCCAGCAGCCGCGGACGCTGAGCGGGCTTTGGAC
 ACCATGAACCTTTGATGTGATTAAGGAAAGCCAATCCGCATCATGTGGTCTCAGAGGGATCCCTCTTTGA
 GAAAATCTGGTGTGGAAACGTCTTCAACAAGAACCTGGACAAATCTATAGATAACAAGGCACTTTATGA
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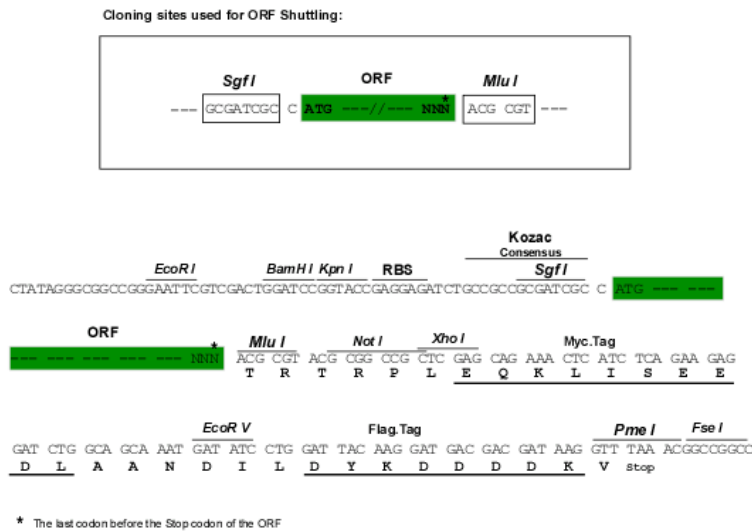
Protein Sequence: >RC219691 representing NM_003819
Red=Cloning site Green=Tags(s)

MNAAASSYPMASLYVGDHLHSDVTEAMLYEKFSAPGPVLSIRVCRDMITRRSLGYAYVNFQQPADAERALD
 TMNFDVIKGPPIRIMWSQRDPSLRKSGVGNVFIKNLDKSIDNKALYDTFSAFGNILSCKVCDENSGSKGY
 AFVHFETQEAADKAIEKMNGMLLNDRKVFVGRFKSRKEREAEELGAKAKEFTNVYIKNFGEEDVDESLKEL
 FSQFGKTL SVKVMRDPNGKSKGFGVSYEKHEDANKAVEEMNGKEISGKIIFVGRAQKKVERQAELEKRF
 EQLKQERISRYQGVNLYIKNLDDTIDDEKLRKEFSFGSITSAKVMEEDGRSKGFGVCFSSPEEATKAV
 TEMNGRIVGSKPLYVALAQRKEERKAHLTNQYMQRVAGMRALPANAILNQFQPAAGGYFVPAVPQAQGRP
 PYYTPNQLAQMRPNRWQQGGRPQGFQGMPSAIRQSGPRPTLRHLAPTGSECPXXRLAMDFGGAGAAQQG
 LTDSCQSGGVPTAVQNLAPRAAVAAAAPRAVAPYKYASSVRSHPHAIQPLQAPQPAVHVQGGQEPLTASML
 AAAPPQEQKQMLGERLFPLIQTMHNSLAGKITGMLEIDNSELLHMLESPESLSKVDEAVAVLQAHHAK
 KEAAQKVGAVAAATS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003819

ORF Size: 1933 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_003819.4](#)

RefSeq Size: 3182 bp

RefSeq ORF: 1935 bp

Locus ID: 8761

UniProt ID: [Q13310](#)

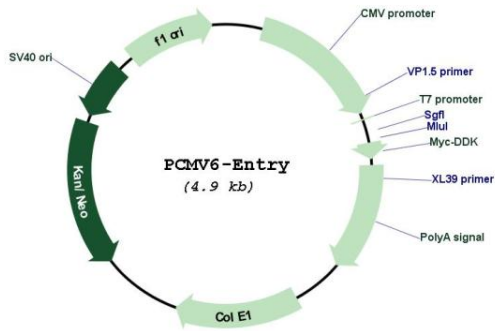
Cytogenetics: 1p34.3

Domains: RRM, PABP, RRM_1

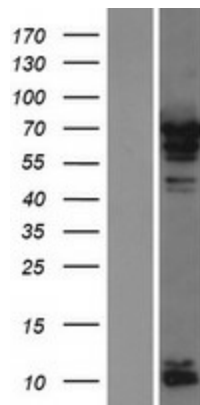
MW: 71.2 kDa

Gene Summary: Poly(A)-binding proteins (PABPs) bind to the poly(A) tail present at the 3-prime ends of most eukaryotic mRNAs. PABPC4 or IPABP (inducible PABP) was isolated as an activation-induced T-cell mRNA encoding a protein. Activation of T cells increased PABPC4 mRNA levels in T cells approximately 5-fold. PABPC4 contains 4 RNA-binding domains and proline-rich C terminus. PABPC4 is localized primarily to the cytoplasm. It is suggested that PABPC4 might be necessary for regulation of stability of labile mRNA species in activated T cells. PABPC4 was also identified as an antigen, APP1 (activated-platelet protein-1), expressed on thrombin-activated rabbit platelets. PABPC4 may also be involved in the regulation of protein translation in platelets and megakaryocytes or may participate in the binding or stabilization of polyadenylates in platelet dense granules. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2008]

Product images:



Circular map for RC219691



Western blot validation of overexpression lysate (Cat# [LY418420]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219691 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).