

## Product datasheet for **RC226758**

### **PABPC4 (NM\_001135654) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PABPC4 (NM_001135654) 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:

>RC226758 representing NM\_001135654  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGAACGCTGCGGCCAGCAGCTACCCCATGGCCTCCCTGTACGTGGGCGACCTGCATTTCGGACGTCACCG  
AGGCCATGCTGTACGAAAAGTTCAGCCCGCGGGCCTGTGCTGTCCATCCGGGTCTGCCGCGATATGAT  
CACCCGCGCTCCCTGGGCTATGCCTACGTCAACTTCCAGCAGCCGCGGACGCTGAGCGGGCTTTGGAC  
ACCATGAACTTTGATGTGATTAAGGAAAAGCCAATCCGCATCATGTGGTCTCAGAGGGATCCCTCTTTGA  
GAAAATCTGGTGTGGAAAAGCTTTCATCAAGAACCTGGACAAATCTATAGATAACAAGTACTTTATGA  
TACTTTTTCTGCTTTGGAAACATACTGTCTGCAAGGTGGTGTGTGATGAGAACGGCTCTAAGGGTTAT  
GCCTTTGTCCACTTCGAGACCCAAGAGGCTGCCGACAAGGCCATCGAGAAGATGAATGGCATGCTCTCA  
ATGACCGCAAAGTATTTGTGGGAGATTCAAGTCTCGAAAGAGCGGGAAGCTGAGCTTGGACCAAAGC  
CAAGGAATTCACCAATGTTTATATCAAAAACCTTTGGGGAAGAGGTGGATGATGAGAGTCTGAAAGAGCTA  
TTCAGTCAGTTTGGTAAGACCCTAAGTGTCAAGGTGATGAGAGATCCCAATGGGAAATCCAAAGGCTTTG  
GCTTTGTGAGTTACGAAAAACACGAGGATGCCAATAAGGCTGTGGAAGAGATGAATGGAAAAGAAAATAAG  
TGGTAAAATCATATTTGTAGGCCGTGCACAAAAGAAAGTAGAACGGCAGGCAGAGTTAAAACGAAAATTT  
GAACAGTTGAAACAGGAGAGAATTAGTCGATATCAGGGGTGAATCTCTACATTAAGAACTTGGATGACA  
CTATTGATGATGAGAAATTAAGGAAAGAATTTCTCCTTTTGGATCAATTACCAGTGCTAAGGTAATGCT  
GGAGGATGGAAGAAGCAAAGGGTTTGGCTTCGTCTGCTTCTCATCTCCTGAAGAAGCAACCAAAGCAGTC  
ACTGAGATGAATGGACGCATTGTGGCTCCAAGCCACTATATGTTGCCCTGGCCCAGAGGAAGGAAGAGA  
GAAAGGCTCACCTGACCAACCAGTATATGCAACGAGTGGCTGGAATGAGAGCACTTCTGCCAATGCCAT  
CTTAAATCAGTTCCAGCCTGCAGCGGGTGGCTACTTTGTGCCAGCAGTCCACAGGCTCAGGGAAGGCCT  
CCATATTATACACCTAACCAAGTTAGCACAGATGAGGCCTAATCCACGCTGGCAGCAAGGTGGGAGACCTC  
AAGGCTTCCAAGGAATGCCAAGTCTATACGCCAGTCTGGGCCTCGTCCAACCTTTCGCCATCTGGCTCC  
AACTGGTAATGCTCCGGCCTCTCGTGGCCTCCCTACTACCACTCAGAGAGTCGGCGTTCCACAGCTGTG  
CAGAACTAGCGCCACGCGCTGCTGTTGCTGCTGCTCCCCGGGCTGTTGCCCTACAATAACGCTC  
CCAGTGTCCGACGCCCTCATCTGCCATACAGCCTCTGCAGGCACCCAGCCTGCGGTCCATGTGCAGGG  
GCAGGAGCCACTGACTGCCTCCATGCTGGCTGCAGCACCCCCAGGAACAGAAGCAGATGCTGGGAGAA  
CGCTTGTCCCCTCATCCAACAATGCATTCAAATCTGGCTGGGAAGATCACGGGAATGCTGCTGGAGA  
TAGAACCTCTGAGCTGCTGCACATGTTAGAGTCCCCGAGTCTCTCCGCTCCAAGGTGGATGAAGCTGT  
AGCAGTCTACAGGCTCATCATGCCAAGAAAGAAGCTGCCAGAAGGTGGGCGCTGTTGCTGCTGCTACC  
TCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC226758 representing NM\_001135654  
Red=Cloning site Green=Tags(s)

MNAAASSYPMASLYVGDHLHSDVTEAMLYEKFSAPGPVLSIRVCRDMITRRSLGYAYVNFQQPADAERALD  
 TMNFDVIKGPPIRIMWSQRDPSLRKSGVGNVFIKNLDKSIDNKVLYDTFSAFGNILSCKVVCDENSGSKGY  
 AFVHFETQEAAADKAIEKMNGMLLNDRKVFVGRFKSRKEREAEELGAKAKEFTNVYIKNFGEVDDLSKEL  
 FSQFGKTL SVKVMRDPNGKSKGFGVSYEKHEDANKAVEEMNGKEISGKIIFVGRAQKKVERQAELEKRF  
 EQLKQERISRYQGVNLYIKNLDDTIDDEKLRKEFSPFGSITSAKVMEEDGRSKGFGVCFSSPEEATKAV  
 TEMNGRIVGSKPLYVALAQRKEERKAHLTNQYMQRVAGMRALPANAILNQFQPAAGGYFVPAVPQAQGRP  
 PYYTPNQLAQMPPNRPWQQGGRPQGFQGMPSAIRQSGPRPTLRHLAPTGNAPASRGLPTTTQRVGVPTAV  
 QNLAPRAAVAAAAAPRAVAPYKYASSVSRSPHAIQPLQAPQPAVHVQGQEPLTASMLAAAPPQEQQMLGE  
 RLFPLIQTMHNSLAGKITGMLLEIDNSELLHMLESPESLSKVD EAVAVLQAHAKKEAAQKVGAVAAAT  
 S

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**ACCN:** NM\_001135654

**ORF Size:** 1893 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\\_001135654.1](#), [NP\\_001129126.1](#)

**RefSeq ORF:** 1896 bp

**Locus ID:** 8761

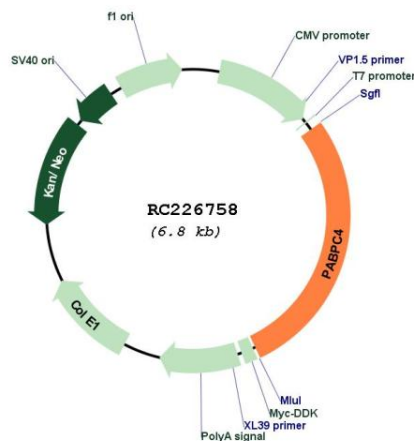
**UniProt ID:** [Q13310](#)

**Cytogenetics:** 1p34.3

**MW:** 69.4 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 RC226758