OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG226758

PABPC4 (NM_001135654) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PABPC4 (NM_001135654) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PABPC4
Synonyms:	APP-1; APP1; iPABP; PABP4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>RG226758 representing NM_001135654
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAACGCTGCGGCCAGCAGCTACCCCATGGCCTCCCTGTACGTGGGCGACCTGCATTCGGACGTCACCG
AGGCCATGCTGTACGAAAAGTTCAGCCCCGCGGGGCCTGTGCTGTCCATCCGGGTCTGCCGCGATATGAT
CACCCGCCGCTCCCTGGGCTATGCCTACGTCAACTTCCAGCAGCCGGCCGACGCTGAGCGGGCTTTGGAC
ACCATGAACTTTGATGTGATTAAGGGAAAGCCAATCCGCATCATGTGGTCTCAGAGGGATCCCTCTTTGA
GAAAATCTGGTGTGGGAAACGTCTTCATCAAGAACCTGGACAAATCTATAGATAACAAGGTACTTTATGA
TACTTTTTCTGCTTTTGGAAACATACTGTCCTGCAAGGTGGTGTGTGATGAGAACGGCTCTAAGGGTTAT
GCCTTTGTCCACTTCGAGACCCAAGAGGCTGCCGACAAGGCCATCGAGAAGATGAATGGCATGCTCCTCA
ATGACCGCAAAGTATTTGTGGGCAGATTCAAGTCTCGCAAAGAGCGGGAAGCTGAGCTTGGAGCCAAAGC
CAAGGAATTCACCAATGTTTATATCAAAAACTTTGGGGAAGAGGTGGATGATGAGAGTCTGAAAGAGCTA
TTCAGTCAGTTTGGTAAGACCCTAAGTGTCAAGGTGATGAGAGATCCCAATGGGAAATCCAAAGGCTTTG
GCTTTGTGAGTTACGAAAAACACGAGGATGCCAATAAGGCTGTGGAAGAGATGAATGGAAAAGAAATAAG
TGGTAAAATCATATTTGTAGGCCGTGCACAAAAGAAAGTAGAACGGCAGGCAGAGTTAAAACGGAAATTT
GAACAGTTGAAACAGGAGAGAATTAGTCGATATCAGGGGGTGAATCTCTACATTAAGAACTTGGATGACA
CTATTGATGATGAGAAATTAAGGAAAGAATTTTCTCCTTTTGGATCAATTACCAGTGCTAAGGTAATGCT
GGAGGATGGAAGAAGCAAAGGGTTTGGCTTCGTCTGCTTCTCATCTCCTGAAGAAGCAACCAAAGCAGTC
ACTGAGATGAATGGACGCATTGTGGGCTCCAAGCCACTATATGTTGCCCTGGCCCAGAGGAAGGAAGAGA
GAAAGGCTCACCTGACCAACCAGTATATGCAACGAGTGGCTGGAATGAGAGCACTTCCTGCCAATGCCAT
CTTAAATCAGTTCCAGCCTGCAGCGGGTGGCTACTTTGTGCCAGCAGTCCCACAGGCTCAGGGAAGGCCT
CCATATTATACACCTAACCAGTTAGCACAGATGAGGCCTAATCCACGCTGGCAGCAAGGTGGGAGACCTC
AAGGCTTCCAAGGAATGCCAAGTGCTATACGCCAGTCTGGGCCTCGTCCAACTCTTCGCCATCTGGCTCC
AACTGGTAATGCTCCGGCCTCTCGTGGCCTCCCTACTACCACTCAGAGAGTCGGCGTTCCCACAGCTGTG
CAGAACTTAGCGCCACGCGCTGCTGTTGCTGCTGCTGCTCCCCGGGCTGTTGCCCCCTACAAATACGCCT
CCAGTGTCCGCAGCCCTCATCCTGCCATACAGCCTCTGCAGGCACCCCAGCCTGCGGTCCATGTGCAGGG
GCAGGAGCCACTGACTGCCTCCATGCTGGCTGCAGCACCCCCCCAGGAACAGAAGCAGATGCTGGGAGAA
CGCTTGTTCCCACTCATCCAAACAATGCATTCAAATCTGGCTGGGAAGATCACGGGAATGCTGCTGGAGA
TAGACAACTCTGAGCTGCTGCACATGTTAGAGTCCCCCGAGTCTCTCCGCTCCAAGGTGGATGAAGCTGT
AGCAGTTCTACAGGCTCATCATGCCAAGAAAGAAGCTGCCCAGAAGGTGGGCGCTGTTGCTGCTGCTACC
TCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

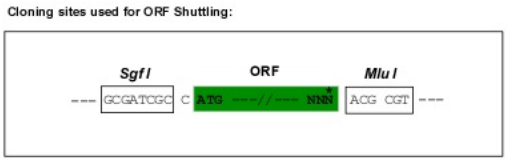
>RG226758 representing NM_001135654
Red=Cloning site Green=Tags(s)

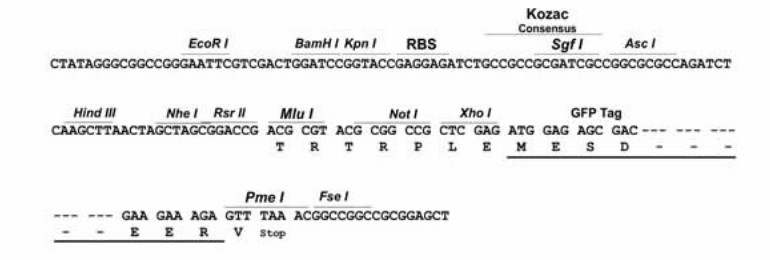
MNAAASSYPMASLYVGDLHSDVTEAMLYEKFSPAGPVLSIRVCRDMITRRSLGYAYVNFQQPADAERALD
TMNFDVIKGKPIRIMWSQRDPSLRKSGVGNVFIKNLDKSIDNKVLYDTFSAFGNILSCKVVCDENGSKGY
AFVHFETQEAADKAIEKMNGMLLNDRKVFVGRFKSRKEREAELGAKAKEFTNVYIKNFGEEVDDESLKEL
FSQFGKTLSVKVMRDPNGKSKGFGFVSYEKHEDANKAVEEMNGKEISGKIIFVGRAQKKVERQAELKRKF
EQLKQERISRYQGVNLYIKNLDDTIDDEKLRKEFSPFGSITSAKVMLEDGRSKGFGFVCFSSPEEATKAV
TEMNGRIVGSKPLYVALAQRKEERKAHLTNQYMQRVAGMRALPANAILNQFQPAAGGYFVPAVPQAQGRP
PYYTPNQLAQMRPNPRWQQGGRPQGFQGMPSAIRQSGPRPTLRHLAPTGNAPASRGLPTTTQRVGVPTAV
QNLAPRAAVAAAAPRAVAPYKYASSVRSPHPAIQPLQAPQPAVHVQGQEPLTASMLAAAPPQEQKQMLGE
RLFPLIQTMHSNLAGKITGMLLEIDNSELLHMLESPESLRSKVDEAVAVLQAHHAKKEAAQKVGAVAAAT
S

TRTRPLE - GFP Tag - V

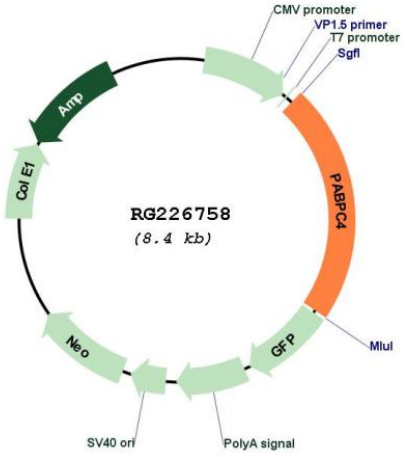
Restriction Sites: SgfI-MluI

Cloning Scheme:





Plasmid Map:



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 Size:	3143 bp
RefSeq ORF:	1896 bp
Locus ID:	8761
UniProt ID:	Q13310
Cytogenetics:	1p34.3
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]