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Product datasheet for MR209653

Pabpc1 (NM_008774) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pabpc1 (NM_008774) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pabpc1
Synonyms:	ePAB; PABP; Pabp1; PabpI; Pabpl1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>MR209653 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAACCCCAGCGCCCCCAGCTACCCCATGGCCTCTCTGTACGTGGGGGACCTGCACCCCGACGTGACCG
AGGCGATGCTCTACGAGAAGTTCAGCCCGGCCGGGCCCATCCTCTCCATCCGGGTCTGCAGGGACATGAT
CACCCGCCGCTCCTTGGGCTACGCGTACGTGAACTTCCAGCAGCCGGCGGACGCGGAACGTGCTTTGGAC
ACCATGAATTTTGATGTTATAAAGGGCAAGCCAGTACGCATCATGTGGTCTCAGCGTGATCCATCACTTC
GCAAAAGTGGAGTAGGCAACATATTCATTAAAAATTTGGACAAATCCATCGACAATAAAGCACTATATGA
TACGTTTTCTGCGTTTGGTAACATCCTTTCATGTAAGGTGGTTTGTGATGAAAATGGCTCCAAGGGCTAT
GGATTTGTACACTTTGAAACACAGGAAGCAGCTGAAAGAGCTATTGAAAAAATGAATGGGATGCTTCTAA
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GATTTGTAAGCTTTGAAAGGCATGAAGATGCGCAGAAAGCTGTGGATGAGATGAATGGGAAGGAGCTCAA
TGGAAAACAGATTTATGTTGGACGAGCTCAGAAAAAAGTGGAACGGCAGACGGAACTTAAGCGCAAATTT
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GCCAGGCTCACCTCACTAACCAGTATATGCAGAGGATGGCAAGTGTACGAGCTGTGCCCAACCCCGTGAT
CAACCCCTACCAGCCAGCACCTCCTTCAGGTTACTTCATGGCAGCTATCCCACAGACTCAGAACCGTGCT
GCATACTATCCTCCTAGCCAAATTGCTCAACTAAGACCAAGTCCTCGCTGGACTGCTCAGGGTGCCAGAC
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ACCAGCTTCCTCACAGGTTCCACGAGTCATGTCAACACAGCGTGTTGCTAACACATCAACACAGACAATG
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CTGCGGGAGTCCGCAATCCCCAGCAACATCTTAATGCACAGCCACAAGTTACCATGCAACAGCCTGCTGT
TCATGTGCAAGGTCAAGAACCTTTAACTGCTTCCATGTTGGCATCTGCGCCCCCGCAAGAGCAGAAGCAA
ATGTTGGGTGAACGGCTGTTTCCTCTTATCCAAGCCATGCACCCTTCTCTTGCTGGTAAAATCACTGGCA
TGCTGTTGGAGATTGATAACTCAGAATTACTTCACATGCTCGAGTCTCCAGAGTCTCTCCGCTCAAAGGT
TGATGAAGCTGTAGCTGTACTACAAGCCCACCAAGCGAAAGAGGCTGCCCAGAAAGCAGTGAACAGTGCC
ACTGGTGTTCCAACTGTC

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209653 protein sequence
Red=Cloning site Green=Tags(s)

MNPSAPSYPMASLYVGDLHPDVTEAMLYEKFSPAGPILSIRVCRDMITRRSLGYAYVNFQQPADAERALD
TMNFDVIKGKPVRIMWSQRDPSLRKSGVGNIFIKNLDKSIDNKALYDTFSAFGNILSCKVVCDENGSKGY
GFVHFETQEAAERAIEKMNGMLLNDRKVFVGRFKSRKEREAELGARAKEFTNVYIKNFGEDMDDERLKEL
FGKFGPALSVKVMTDESGKSKGFGFVSFERHEDAQKAVDEMNGKELNGKQIYVGRAQKKVERQTELKRKF
EQMKQDRITRYQGVNLYVKNLDDGIDDERLRKEFSPFGTITSAKVMMEGGRSKGFGFVCFSSPEEATKAV
TEMNGRIVATKPLYVALAQRKEERQAHLTNQYMQRMASVRAVPNPVINPYQPAPPSGYFMAAIPQTQNRA
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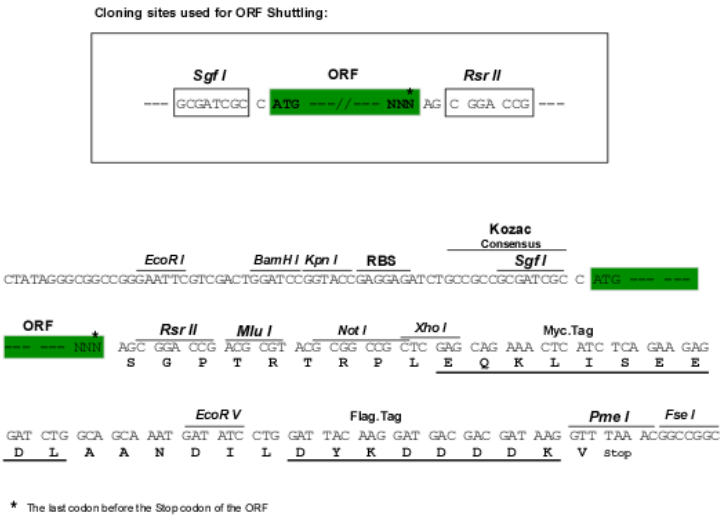
GPRPAAAAAAATPAVRTVPQYKYAAGVRNPQQHLNAQPQVTMQQPAVHVQGQEPLTASMLASAPPQEQKQ
MLGERLFPLIQAMHPSLAGKITGMLLEIDNSELLHMLESPESLRSKVDEAVAVLQAHQAKEAAQKAVNSA
TGVPTV

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



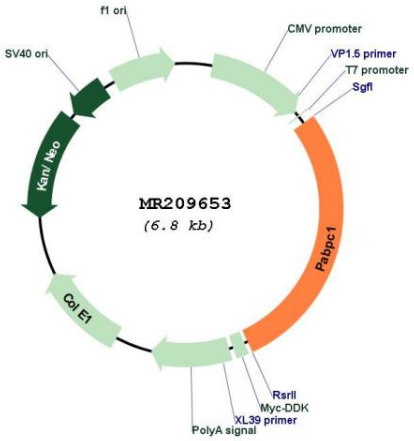
ACCN: NM_008774

ORF Size: 1911 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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_008774.3
RefSeq Size:	2842 bp
RefSeq ORF:	1911 bp
Locus ID:	18458
UniProt ID:	P29341
Cytogenetics:	15 B3.1
MW:	70.7 kDa

Gene Summary: Binds the poly(A) tail of mRNA, including that of its own transcript. May be involved in cytoplasmic regulatory processes of mRNA metabolism such as pre-mRNA splicing. Its function in translational initiation regulation can either be enhanced by PAIP1 or repressed by PAIP2. Can probably bind to cytoplasmic RNA sequences other than poly(A) in vivo. Involved in translationally coupled mRNA turnover. Implicated with other RNA-binding proteins in the cytoplasmic deadenylation/translational and decay interplay of the FOS mRNA mediated by the major coding-region determinant of instability (mCRD) domain. Involved in regulation of nonsense-mediated decay (NMD) of mRNAs containing premature stop codons; for the recognition of premature termination codons (PTC) and initiation of NMD a competitive interaction between UPF1 and PABPC1 with the ribosome-bound release factors is proposed (By similarity). By binding to long poly(A) tails, may protect them from uridylation by ZCCHC6/ZCCHC11 and hence contribute to mRNA stability (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209653