

Product datasheet for **SC117245**

PABP2 (PABPN1) (NM_004643) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PABP2 (PABPN1) (NM_004643) Human Untagged Clone
Tag:	Tag Free
Symbol:	PABP2
Synonyms:	OPMD; PAB2; PABII; PABP-2; PABP2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene sequence for NM_004643 edited
 GAATTCGGCACGAGGGTTCTAGAGAGGGTAGCTTTTCTTTTATCACGACCCTCGCATGGG
 GCGAGGGAAATGGCCGAGCATGGCTGAGGCCGCGCTCTGGCCGAGAGCAGGGCACAGCCC
 CTGCGTTGGTTCCTTTAAGCTGTCTCCATACCCTCCCCTTATATTAGGAGCTGGAA
 GCTATCAAAGCTCGAGTCAGGGAGATGGAGGAAGAAGCTGAGAAGCTAAAGGAGCTACAG
 AACGAGGTAGAGAAGCAGATGAATATGAGTCCACCTCCAGGCAATGCTGGCCAGTGATC
 ATGTCCATTGAGGAGAAGATGGAGGCTGATGCCCGTCCATCTATGTTGGCAATGTGGAC
 TATGGTGAACAGCAGAAGAGCTGGAAGCTCACTTTCATGGCTGTGGTTCAGTCAACCGT
 GTTACCATACTGTGTGACAAATTTAGTGGCCATCCCAAAGGGTTTGCATATATAGAGTTC
 TCAGACAAAGAGTCAGTGAGGACTTCCTTGGCCTTAGATGAGTCCCTATTTAGAGGAAGG
 CAAATCAAGGTGATCCCAAAACGAACCAACAGACCAGGCATCAGCACAACAGACCCGGGT
 TTTCCACGAGCCCGCTACCGCGCCCGGACCACCAACTACAACAGCTCCCGCTCTCGATT
 TACAGTGGTTTTAACAGCAGGCCCGGGTCCGCTACAGGGCCGGGTAGAGCGACA
 TCATGGTATTCCTTACTAAAAAAGTGTGATTAGGAGGAGAGAGGAAAAAAGAG
 GAAAGAAGGAAAAAAGAATTAAGAAAAAAGAAAAACAGAAGATGACCTTGAT
 GAAAAAATATTTTTAAAAAAGATATACTGTGGAAGGGGGGAGAAATCCCAATAACT
 AACTGCTGAGGAGGGACCTGCTTTGGGGAGTAGGGGAAGGCCAGGGAGTGGGGCAGGGG
 GCTGCTTATCACTCTGGGGATTCGCCATGGACACGTCTCAACTGCGCAAGCTGCTGCC
 ATGTTTCCCTGCCCACTTACCCCTTGGGGCTGCTCAAGGTAGGTGGGCGTGGGTG
 GTAGGAGGTTTTTTTTTACCCAGGGCTCTGGAAGGACACCAACTGTTCTGCTTGTAC
 CTTCCCTCCGCTTCTCCTCGCCTTACAGTCCCCTCCTGCCTGCTCCTGTCCAGCCAG
 GTCTACCAACCCACCCACCCCTTCTCCGGCTCCCTGCCCTCCAGATTGCCTGGTGAT
 CTATTTTGTTCCTTTTGTGTTTTCTTTTTCTGTTTTGAGTGTCTTTCTTTGCAGGTTTCT
 GTAGCCGGAAGATCTCCGTTCCGCTCCACGCGGCTCCAGTGTAATTCCTTCCCTG
 GGGAAATGCACTACCTTGTTTTGGGGGTTTAGGGGTGTTTTGTTTTTCAAGTGTTTTG
 TTTTTTTTTTCTTTGCCTTTTTCCCTTTATTTGGAGGGAATGGGAGGAAGTGGGA
 ACAGGGAGGTGGGAGGTGGATTTTGTATTTTTTAGCTCATTCCAGGGGTGGGAATT
 TTTTTTAAATGTGTGATGAATAAAGTTGTTTTGAAXXXXXXXXXXXXXXXXXXXXXXXXXX
 AA
 AA
 AAAAAAAAAAAAAAAAAAAAAAAAACTCGAC

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004643 unedited
 NGGGTCAAATTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGGTTCTAGA
 GAGGGTAGCTTTTCTTTTATCACGACCCTCGCATGGGGCAGGGAAATGGCCGAGCATGG
 CTGAGGCCGCGCTCTGGCCGAGAGCAGGGCACAGCCCCTGCGTTGGTTCCTTTAAGCTG
 TCCTCCATACCCTCCCCTTATATTAGGAGCTGGAAGCTATCAAAGCTCGAGTCAGGGA
 GATGGAGGAAGAAGCTGAGAAGCTAAAGGAGCTACAGAACGAGGTAGAGAAGCAGATGAA
 TATGAGTCCACCTCCAGGCAATGCTGGCCAGTGATCATGTCCATTGAGGAGAAGATGGA
 GGCTGATGCCCGTCCATCTATGTTGGCAATGTGGACTATGGTGAACAGCAGAAGAGCT
 GGAAGCTCACTTTCATGGCTGTGGTTCAGTCAACCGTGTACCATACTGTGTGACAAAT
 TAGTGGCCATCCCAAAGGGTTTGCATATAGAGTTCTCAGACAAAGAGTCAGTGAGGAC
 TTCCTTGGCCTTAGATGAGTCCCTATTTAGAGGAAGGCAATCAAGGTGATCCCAAAACG
 AACCAACAGACCAGGCATCAGCACAACAGACCCGGGTTTTCCACGAGCCCGCTACCGCGC
 CCGGACCACCAACTACAACAGCTCCCGCTCTCGATTCTACAGTGGTTTTAACAGCAGGCC
 CCGNGTCCGCTACAGGGGCCGGCTAGAGCGACATCATGGTATTCCTTACAAAAA
 AAGTGTGATTANGAGGAGAGAGAGGGAAAAAAGAGGAAAGAAGGAAAAAAGAAAT
 AAAAAAAAAAAGAAACCCGAGATGACCTTGATGGAAAAAATATTTTTAAAAAAGATT
 ACTGTGGAAGGGGGGAGATCCCATACTACTGCTGAGGAG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004643 unedited
 ATCCGTAGCCAGGAAAATCGTAAATACAACCTTNTATNATGNACACATATTAATAAAAAAAT
 CCCACCCCTGGAAATGAGCTNAAAAAATAACAAAATCCACCTCCCACCTCCCTGTTCCC
 ACTTCCTCCCATTCCCTCCAAATAAAAGGGAAAAAAGGCATCGGCAAAAAAAAAAAAAACA
 AACAACTGAAAAACAAAAACACCCTAAACCCCAAAAACAAGGTAGTGCATTTCCCAG
 GGGGAAGGGGAATTTACTACTGGACCCGCTGGGAGCGGAACGGATACCTTTCCGGCTCCAG
 AACCTGCTTTGAAAGACTCTCCTTCTGAAAAATGAATCACTCCCGCACCTAATATAC
 CACCACCTATCTCCCCGCGCATCGCTCCGACACACAGCGACGACTGCCTATCCCCCCC
 TCCTCCTCCCCTCCCTGCTCTCAGTCACTGTCATCTTCCCTCCCCAACAACTCCTGCCTC
 GCCCTGCCCATATCCCCGCTCCCCCTTCCCCCCTCCTTTCCCCCTACCTCCATCCT
 CCCCTCCTCTCCCCCCTTCCATTCTTCCCTCGCCATCGACCTCCTTCTTACCTCT
 ACCCAACTCTTCTTTTCTCATCTTCTTTTCTCCTCTCTCCCCCTTCCCCCTTCCC
 CTCCTCTTTATTTTACTTTCCACACACCCCTATCCTTCCCGCGCTCCCCACCCCT
 CTTTTCCCTCTCCCCCCTACCCCTCTCCATTTCTTCCGCTTGTCTCTTTATCTCCG
 ACTGTCCTATTCTCCCCCTCCCCCTCCTTTTTACCCCTACGTTACCCACTACTAT
 ATACTACACAACCTTTATATCTCTCTCATGTTATTCTGTCCGCGGATTAATAG
 ATATTACCTATCCAGTCTCCGTCATTCACTCCCTCATATCCTCATATATAAAAAAAT

Restriction Sites:

NotI-NotI

ACCN:

NM_004643

Insert Size:

1750 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](#)

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_004643.1](#), [NP_004634.1](#)

RefSeq Size:

3107 bp

RefSeq ORF: 921 bp

Locus ID: 8106

UniProt ID: [Q86U42](#)

Cytogenetics: 14q11.2

Domains: RRM

Protein Families: Druggable Genome

Gene Summary: This gene encodes an abundant nuclear protein that binds with high affinity to nascent poly(A) tails. The protein is required for progressive and efficient polymerization of poly(A) tails at the 3' ends of eukaryotic transcripts and controls the size of the poly(A) tail to about 250 nt. At steady-state, this protein is localized in the nucleus whereas a different poly(A) binding protein is localized in the cytoplasm. This gene contains a GCG trinucleotide repeat at the 5' end of the coding region, and expansion of this repeat from the normal 6 copies to 8-13 copies leads to autosomal dominant oculopharyngeal muscular dystrophy (OPMD) disease. Related pseudogenes have been identified on chromosomes 19 and X. Read-through transcription also exists between this gene and the neighboring upstream BCL2-like 2 (BCL2L2) gene. [provided by RefSeq, Dec 2010]