

Product datasheet for **SC106769**

PTBP1 (NM_031990) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTBP1 (NM_031990) Human Untagged Clone
Tag:	Tag Free
Symbol:	PTBP1
Synonyms:	HNRNP-I; HNRNPI; HNRPI; pPTB; PTB; PTB-1; PTB-T; PTB2; PTB3; PTB4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC106769 sequence for NM_031990 edited (data generated by NextGen Sequencing)

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ATGGACGGCATTGTCCCAGATATAGCCGTTGGTACAAAGCGGGGATCTGACGAGCTTTTC
TCTACTTGTGTCACTAACGGACCGTTTATCATGAGCAGCAACTCGGCTTCTGCAGCAAAC
GGAAATGACAGCAAGAAGTTCAAAGGTGACAGCCGAAGTGCAGGCGTCCCCTCTAGAGTG
ATCCACATCCGGAAGCTCCCCATCGACGTCACGGAGGGGAAAGTCATCTCCCTGGGGCTG
CCCTTTGGGAAGGTCACCAACCTCCTGATGCTGAAGGGGAAAAACAGGCCTTTCATCGAG
ATGAACACGGAGGAGGCTGCCAACCCATGGTGAACACTACACCTCGGTGACCCCTGTG
CTGCGCGGCCAGCCATCTACATCCAGTTCTCCAACCACAAGGAGCTGAAGACCGACAGC
TCTCCAACCAGGCGCGGGCCAGGCGGCCCTGCAGGCGGTGAACCTCGGTCCAGTCGGGG
AACCTGGCCTTGCTGCTCGGCGGGCGCCGTGGACGCAGGGATGGCGATGGCCGGGCGAG
AGCCCCGTGCTCAGGATCATCGTGGAGAACCTTCTACCTGTGACCCTGGATGTGCTG
CACCAGATTTTCTCCAAGTTCGGCACAGTGTGAAGATCATCACCTTCACCAAGAACAAC
CAGTTCAGGCCCTGCTGCAGTATGCGGACCCCGTGAGCGCCAGCACGCCAAGCTGTGCG
CTGGACGGGCAGAACATCTACAACGCTGCTGCACGCTGCGCATCGACTTTTCCAAGCTC
ACCAGCCTCAACGTCAAGTACAACAATGACAAGAGCCGTGACTACACACGCCAGACCTG
CCTTCCGGGGACAGCCAGCCCTCGCTGGACCAGACCATGGCCGCGGCCTTCGCCTCTCCG
TATGCAGGAGCTGGTTTCCCTCCACCTTTGCCATTCTCAAGCTGCAGGCCTTTCGGTT
CCGAACGTCCACGGCGCCCTGGCCCCCTGGCCATCCCCCTCGGCGGGCGGGCGAGCTGCG
GCGGCAGGTGGATCGCCATCCCGGGCCTGGCGGGGCGAGGAAATCTGTATTGTGGTC
AGCAACCTCAACCAGAGAGAGTACACCCCAAAGCCTTTTATTCTTTTCGGCGTCTAC
GGTGACGTGCAGCGCTGAAGATCCTGTTCAATAAGAAGGAGAACGCCCTAGTGCAGATG
GCGGACGGCAACCAGGCCAGCTGGCCATGAGCCACCTGAACGGGCACAAGCTGCACGGG
AAGCCCCATCCGCATCACGCTCTCGAAGCACAGAACGTGCAGCTGCCCGCGAGGGCCAG
GAGGACCAGGGCCTGACCAAGGACTACGGCAACTCACCCCTGCACCGCTTCAAGAAGCCG
GGCTCCAAGAACTTCCAGAACATATTCCCGCCCTCGGCCAGCTGCACCTCTCCAACATC
CCGCCCTCAGTCTCCGAGGAGGATCTCAAGGCTCCTGTTTTCCAGCAATGGGGGCGTCGTC
AAAGGATTCAAGTTCTTCCAGAAGGACCGCAAGATGGCACTGATCCAGATGGGCTCCGTG
GAGGAGGGGTCCAGGCCCTATTGACCTGCACAACCAGACCTCGGGGAGAACCACCAC
CTGCGGGTCTCCTTCTCCAAGTCCACCATCTAG
    
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Clone variation with respect to NM_031990.3

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_031990 unedited
TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCAGGAGCTCCACTCCGTCC
CCCXCGGGTCTGCTCTGTGTGCCATGGACGGCATTGTCCCAGATATAGCCGTTGGTACAA
AGCGGGGATCTGACGAGCTTTTCTACTTGTGTCACTAACGGACCGTTTATCATGAGCA
GCAACTCGGCTTCTGCAGCAAACGGAAATGACAGCAAGAAGTTCAAAGGTGACAGCCGAA
GTGCAGGCGTCCCCTCTAGAGTGATCCACATCCGGAAGCTCCCCATCGACGTCACGGAGG
GGGAAGTCATCTCCCTGGGGTGCCTTTGGGAAGGTACCAACCTCCTGATGCTGAAGG
GGAAAAACAGGCCTTTCATCGAGATGAACACGGAGGAGGCTGCCAACACCATGGTGAAC
ACTACACCTCGGTGACCCTGTGCTGCGCGGCCAGCCATCTACATCCAGTTCTCCAACC
ACAAGGAGCTGAAGACCGACAGCTCTCCAACCAGGCGCGGGCCAGGCGGCCCTGCAGG
CGGTGAACTCGGTCCAGTCGGGGAACCTGGCCTTGGCTGCCTCGGCGGGCGCCGTGGACG
CAGGGATGGCGATGGCCGGGCAGAGCCCGTGCTCAGGATCATCGTGGAGAACCTTCTCT
ACCTGTGACCCTGGATGTGCTGCACCAAATNTCTCAAAGTTCGGCACAGTGTGAAGA
TCATCACCTTACCAAGAAACACAGTTCAGGCCCTGCTGCAGTATGCGGACCCCGTG
AACCGCCAACACGCAAGCTGGTCCCTGGACGGGCAGACATCTACAACGCTGGTGCCCG
CTGGGCATCGACTTTTCAAGCTCACCGGCTCACGTCAAGTACACCATGACAAGAGCGGGA
CTACCACCCAGACCTG
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_031990 unedited GCCCCTTCTATATCGAGTTTTTTTTTTTTTTTTTTTTGGAGTTTCTGAAACGGTTTTAATC GGTTCTCTCCGCGTCACAAGCCATCGGGTAAGGCAACGGTAATGTGCGTGGGGTCCCCTG TGGCTTCGTGGTTACAATACTGAGCCTGGAATTGCTGTTAGCAAAATATACATTTGTGTC ACCATAAAAAACCGCGCCGTCGTCCTCGGGTCTTACAACAGGTATAAAAAATTATAAAT ATTTACACCCTTGTACACGCTTTACGAAAAGGGATCCTAAGATAGCCCCGGGACAG GACTCGGGGGCGGCACAAGAGCACAATGACAGGATCGCCCGTCTTTCGGGTTTCATCCTC CTAGGCAGGTTTAAACACAGAAATGAGACTTTGGCGCAAAATTTGAAGGAAGAAAAACCC TGAAGTTTGAGAGCAAGTTTTTATGCGACTGCTGGTGAAGCGTGGTGAATGCTACCG GAGGCGATGTCAGAGGCGGTGACACCTTCGCCCTTACCTGAAGCTTAAGGGCTCTAACA TAGGACCGGGGCTACCTGTGTCTGACCCATGGGCGGTCCCGTCTGCTCTCTGGAACCTGG TTAGGACCGGGCTTCTGTGCCTGCCACTGGGCGGTCCCGCTGCTTTCTGAAACTGG GGTCTGCCTGTGCCTATTTCCAGGAATAAATACAGCTACAGCGTCCAGGGCATAACCCT GGAATTTTATTTCCCTCCACCCTTGAGTCTACTGCATAAAAAGATACTAAAATATTCCT TTTGCTTAAATGGATAAGATTCCATATCTGGCTACCGGCAAATTGCTAGGCCACACCTTG CTCTGCTAGTTTTATTTAGATATTTTTCTCCCTCCCTACTGAAACCGGGACCCATTGG GTGCATAGATAGCCCGGGCGGAAAGGAATTCGCTCTGTTAAGCGGGCGGGTCTCC CC
Restriction Sites:	NotI-NotI
ACCN:	NM_031990
Insert Size:	3070 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none"> 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:	<u>NM_031990.2</u> , <u>NP_114367.1</u>
RefSeq Size:	3300 bp
RefSeq ORF:	1653 bp
Locus ID:	5725
UniProt ID:	<u>P26599</u>
Cytogenetics:	19p13.3
Domains:	RRM

Protein Families: Druggable Genome

Gene Summary: This gene belongs to the subfamily of ubiquitously expressed heterogeneous nuclear ribonucleoproteins (hnRNPs). The hnRNPs are RNA-binding proteins and they complex with heterogeneous nuclear RNA (hnRNA). These proteins are associated with pre-mRNAs in the nucleus and appear to influence pre-mRNA processing and other aspects of mRNA metabolism and transport. While all of the hnRNPs are present in the nucleus, some seem to shuttle between the nucleus and the cytoplasm. The hnRNP proteins have distinct nucleic acid binding properties. The protein encoded by this gene has four repeats of quasi-RNA recognition motif (RRM) domains that bind RNAs. This protein binds to the intronic polypyrimidine tracts that requires pre-mRNA splicing and acts via the protein degradation ubiquitin-proteasome pathway. It may also promote the binding of U2 snRNP to pre-mRNAs. This protein is localized in the nucleoplasm and it is also detected in the perinucleolar structure. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) uses an alternative splice site resulting in it lacking 21 nt in the coding region compared to variant 1. Thus isoform b is 7 aa shorter than isoform a, but it maintains the same reading frame.