

Product datasheet for **SC109649**

PTBP1 (NM_031991) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTBP1 (NM_031991) Human Untagged Clone
Tag:	Tag Free
Symbol:	PTBP1
Synonyms:	HNRNP-I; HNRNPI; HNRPI; pPTB; PTB; PTB-1; PTB-T; PTB2; PTB3; PTB4
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_031991, the custom clone sequence may differ by one or more nucleotides

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ATGGACGGCATTGTCCCAGATATAGCCGTTGGTACAAAGCGGGGATCTGACGAGCTTTTCTCTACTTGTG
TCACTAACGGACCGTTTATCATGAGCAGCAACTCGGCTTCTGCAGCAAACGAAATGACAGCAAGAAGTT
CAAAGGTGACAGCCGAAGTGCAGGCGTCCCCTCTAGAGTGATCCACATCCGGAAGCTCCCCATCGACGTC
ACGGAGGGGGAAGTCATCTCCCTGGGGTGCCTTTGGGAAGGTACCAACCTCCTGATGCTGAAGGGGA
AAAACCAGGCCTTCATCGAGATGAACACGGAGGAGGCTGCCAACCCATGGTGAACACTACACCTCGGT
GACCCCTGTGCTGCGCGGCCAGCCCATCTACATCCAGTCTCCAACCACAAGGAGCTGAAGACCGACAGC
TCTCCCAACCAGGCGCGGGCCAGGCGGCCCTGCAGGCGGTGAACCTCGGTCCAGTCGCGGGAACTGGCCT
TGGCTGCCTCGGCGGGCGCCGTGGACGCAGGGATGGCGATGGCCGGGCAGAGCCCGTGCTCAGGATCAT
CGTGGAGAACCTTCTACCCCTGTGACCCTGGATGTGCTGCACCAGATTTTCTCCAAGTTCGGCACAGTG
TTGAAGATCATCACCTTCACCAAGAACAACCAGTTCAGGCCCTGCTGCAGTATGCGGACCCCGTGAGCG
CCCAGCACGCCAAGCTGTGCTGGACGGGCAGAACATCTACAACGCTGCTGCACGCTGCGCATCGACTT
TCCAAGCTCACCAGCCTCAACGTCAAGTACAACAATGACAAGAGCCGTGACTACACAGCCAGACCTG
CCTTCGGGGACAGCCAGCCCTCGTGGACAGACCATGGCCGCGCCTTCGGCCTTTCCGTTCCGAACG
TCCACGGCGCCCTGGCCCCCTGGCCATCCCCTCGGCGGGCGGCGCAGCTGCGGCGGCAGGTCCGGATCGC
CATCCCGGGCCTGGCGGGGCAGGAAATTCTGTATTGCTGGTCAGCAACCTCAACCAGAGAGAGTCACA
CCCCAAAGCCTCTTATTCTTTTCGGCGTCTACGGTGACGTGCAGCGCGTGAAGATCCTGTTCAATAAGA
AGGAGAACGCCCTAGTGCAGATGGCGGACGGCAACCAGGCCAGCTGGCCATGAGCCACCTGAACGGGCA
CAAGCTGCACGGGAAGCCATCCGCATCAGCTCTCGAAGCACCAGAACGTGCAGCTGCCCGCGAGGGC
CAGGAGGACCAGGCCTGACCAAGGACTACGGCAACTCACCCCTGCACCGCTTCAAGAAGCCGGGCTCCA
AGAACTCCAGAACATATCCC GCCCTCGGCCAGCTGCACCTCTCCAACATCCC GCCCTCAGTCTCGA
GGAGGATCTCAAGTCTGTTTTCCAGCAATGGGGCGTGTGTCAAAGGATTCAAGTCTTCCAGAAGGAC
CGCAAGATGGCACTGATCCAGATGGGCTCCGTGGAGGAGGCGGTCCAGGCCCTCATTGACCTGCACAAC
ACGACCTCGGGGAGAACCACCACCTGCGGGTCTCCTTCTCCAAGTCCACCATCTAG

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_031991 unedited
 NTTGTCAAATTTGTATACGACTCCTATAGGGCGGCGCGAATTCGCACGAGGCCACTCC
 GTCCCCCGCGGTCTGCTCTGTGTGCCATGGACGGCATTGTCCCAGATATAGCCGTTGGT
 ACAAAGCGGGGATCTGACGAGCTTTTCTACTTGTGTACTAACGGACCGTTTATCATG
 AGCAGCAACTCGGCTTCTGCAGCAAACGGAAATGACAGCAAGAAGTTCAAAGGTGACAGC
 CGAAGTGCAGGCGTCCCCTCTAGAGTGATCCACATCCGGAAGCTCCCATCGACGTCACG
 GAGGGGAGGTCATCTCCCTGGGGCTGCCCTTTGGGAAGGTCACCAACCTCCTGATGCTG
 AAGGGGAAAAACAGGCCCTTCATCGAGATGAACACGGAGGAGGCTGCCAACACCATGGTG
 AACTACTACACCTCGGTGACCCCTGTGCTGCGCGGCCAGCCATCTACATCCAGTTCTCC
 AACCAAGGAGCTGAAGACCGACAGCTCTCCAACAGGCGGGGCCAGGCGGCCCTG
 CAGGCGGTGAACCTCGTCCAGTCGGGAACTGGCCTTGCTGCTCGGCGGGCGCCGCTG
 GACGCAGGATGGCGATGGCCGGGCAGACCCCGTCTCAGGATCATCGTGGAGAACCTC
 TTCTACCTGTGACCCTGGATGTGCTGCACCAGATTTTCTCCAAGTTCGGCACAGTGTN
 GAAGATCATCACCTTACCAAGAACAACAGTTCCAGGCCCTGCTGCAGTATGCGGACCC
 CGTGAGCGCCAGCACGCAAGCTGTCGCTGGACGGGCAGAACATCTACAACGCCTGCTG
 CACGCTGCGCATCGACTTTNCAGCTCACAGCCTCNACGTCAGTACAACATGACAAGAGC
 CGTG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_031991 unedited
 CGGCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTGGAGATACANAAGATTTATTC
 GAAGTCCAGGTACAGACTGGCCAACCTGCCTCTACAGCGTCCACAGCGAACACAGGGCTA
 GACAAGGGAGGAGTTTCTCAAACGGTTTTAATCGGTTCTCTCCGCGTCACAAGCCATCGG
 GTAAGGCAACGGAATGTGCGTGGGGTCCCCTGTGGCTCCGCGGTACAATACTGAGCCTG
 GAATTGCTGTTAGCAAAATATACATTTGTGTACCATAAAAAACCGCGCCGCCGCCCTC
 GGGTCTCACAAACAGGTATAAAAAATTATAAATATTTACACCTTGTACACGCTTTTACG
 GAAAGGGGATCCTAGGAGAGCCCCGGGACAGGACGCGGGGGCGGTAGAAAGAGCACAGA
 GAAGACAGGAGGAGCGCCCGCTTCCGGGTCCCAGCATCAGAGGCAGGCAAAACACAGAA
 ATGAGACTTTGGTCCAAAATTTGAAGGAAGAAAAACCCCTGAAGTTTGGAGCAAGTTTT
 CTAGGCGACTGCAGGTGAAGGCGTGGTGAAGGCAACCCGAGGCGATGCCAGAGGCGGGC
 ACACGCCCGCCCTTTCCCTGAAGCTCAGGNGCTAAGATAGGACCCGGGCTCCCTGTGC
 CTGACCCACNNTGGCGNCCCGNCTGCTCTCTGGNAACTGGTCTGCTGTGACTTATTAC
 AAGGAATAAATAAAGTAACAGCCTACANGTTATACCCAGGAAGTTTAGATTACCTC
 ATACCATGNATCATCTGCTATAAAAAAGTACTCTAACTATTTCTTTTGTATTAATG
 AAAAAGATTAATATTTGGTACCTGGAATATTGCTATGCCAGACCTTCGCAACTGCAAG
 TATTTAATCCGAGATATGTCNACCCTCCCAACTGACCCCGGTGAGCCCTGGGGCAAA
 AGGAAGCCCTTGCCCGTAAAGGAAATCCGACTGATATAGCTTGGTTGGGTGCCACCC
 GGCCCGGCCANTGT

Restriction Sites:

NotI-NotI

ACCN:

NM_031991

Insert Size:

3260 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:	NM_031991.2 , NP_114368.1
RefSeq Size:	3241 bp
RefSeq ORF:	1596 bp
Locus ID:	5725
UniProt ID:	P26599
Cytogenetics:	19p13.3
Domains:	RRM
Protein Families:	Druggable Genome
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) lacks 78 nt in the coding region compared to variant 1. Thus isoform c is 26 aa shorter than isoform a but it maintains the same reading frame.</p>