

## Product datasheet for **SC320688**

### 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
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_031991.2  
 GTCTGCTCTGTGCCATGGACGGCATTGTCCCAGATATAGCCGTTGGTACAAAGCGGGG  
 ATCTGACGAGCTTTTCTACTTGTGTCACTAACGGACCGTTTATCATGAGCAGCAACT  
 GGCTTCTGCAGCAAACGGAAATGACAGCAAGAAGTTCAAAGGTGACAGCCGAAGTGCAGG  
 CGTCCCCTCTAGAGTGATCCACATCCGGAAGCTCCCCATCGACGTACGGAGGGGAAAGT  
 CATCTCCCTGGGGCTGCCCTTTGGGAAGGTCACCAACCTCCTGATGCTGAAGGGGAAAAA  
 CCAGGCCCTCATCGAGATGAACACGGAGGAGGCTGCCAACCCATGGTGAACCTACTACAC  
 CTCGGTGACCCCTGTGCTGCGCGCCAGCCCATCTACATCCAGTTCTCCAACCACAAGGA  
 GCTGAAGACCGACAGCTCTCCAACCAGGCGGGCCAGGCGGCCCTGCAGGCGGTGAA  
 CTCGGTCCAGTCGGGAACCTGGCCTTGGCTGCCTCGGCGCGGCCGTGGACGCAGGGAT  
 GGCATGGCCGGCAGAGCCCCGTGCTCAGGATCATCGTGGAGAACCTTCTTACCCTGT  
 GACCCTGGATGTGCTGCACCAGATTTTCTCCAAGTTCGGCACAGTGTGAAGATCATCAC  
 CTTACCAAGAACAACCGATTCCAGGCCCTGCTGCAGTATGCGGACCCCGTGAGCGCCCA  
 GCACGCCAAGCTGCTGCTGGACGGGCAGAACATCTACAACGCCTGCTGCACGCTGCGCAT  
 CGACTTTTCCAAGCTCACCAGCCTCAACGTCAAGTACAACAATGACAAGAGCCGTGACTA  
 CACACGCCAGACCTGCCTTCCGGGGACAGCCAGCCCTCGCTGGACCAGACCATGGCCGC  
 GGCCTTCGGCCTTCCGTTCCGAACGTCCACGGCGCCCTGGCCCCCTGGCCATCCCCTC  
 GGCGCGGGCGGACAGTGGCGGGCAGGTCGGATCGCCATCCCGGGCTGGCGGGGCAGG  
 AAATTCTGTATTGCTGGTCAGCAACCTCAACCCAGAGAGAGTACACCCCAAGCCTCTT  
 TATTCTTTTCGGCGTCTACGGTGACGTGACGCGGTGAAGATCCTGTTCATAAGAAGGA  
 GAACGCCCTAGTGCAGATGGCGGACGGCAACCAGGCCAGCTGGCCATGAGCCACCTGAA  
 CGGGCACAAGCTGCACGGGAAGCCATCCGCATCACGCTCTCGAAGCACCAGAACGTGCA  
 GCTGCCCCGCGAGGGCCAGGAGGACCAGGGCCTGACCAAGGACTACGGCAACTCACCCCT  
 GCACCGCTTCAAGAAGCCGGGCTCCAAGAATTCCAGAACATATCCCGCCCTCGGCCAC  
 GCTGCACCTCTCCAACATCCCGCCCTCAGTCTCCGAGGAGGATCTCAAGGTCCTGTTTT  
 CAGCAATGGGGCGTCGTCAAAGGATTCAAGTTCTTCCAGAAGGACCGCAAGATGGCACT  
 GATCCAGATGGGCTCCGTGGAGGAGGCGGTCCAGGCCCTCATTGACCTGCACAACCACGA



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CCTCGGGGAGAACCACCACCTGCGGGTCTCCTTCTCCAAGTCCACCATCTAGGGGCACAG  
 GCCCCACGGCCGGGCCCTGGCGACAATCCATCATTCCAGAGAAAAGCCACTTTAA  
 AAACAGCTGAAGTGACCTAGCAGACCAGAGATTTATTTTTTAAAGAGAAATCAGTTTA  
 CCTGTTTTTAAAAAATTAATCTAGTTCACCTTGCTCACCTGCGGTGACAGGGACAGC  
 TCAGGCTCTTGGTGACTGTGGCAGCGGGAGTCCCAGCCCTCCACACCCGGGGCCAGACC  
 CTCGGGGCCATGCCTTGGTGGGGCTGTGTCGGGCGTGGGGCCTGCAGGTGGGCGCCCG  
 ACCACGACTTGGCTTCTTGTGCCTAAAAACCTGCCTTCTGCAGCCACACACCCACC  
 CGGGGTGCTTGGGGACCCAAGGGTGGGGGGTACACCAGAGAGAGGCAGGGGGCCTG  
 GCCGGCTCCTGCAGGATCATGCAGCTGGGGCGGGCGGGCGGGTGCACACCCCAACC  
 CCAGCCCTCTAATCAAGTCACGTGATTCTCCCTTACCCCGCCCCAGGGCCTTCCCTTC  
 TGCCCCAGGGGGCTCCCCGCTGCTCCAGCTGCGGAGCTGGTCGACATAATCTCTGTAT  
 TATATACTTTCAGTTGCAGACGTCTGTGCCTAGCAATATTTCCAGTTGACCAAATATTC  
 TAATCTTTTTTCATTTATATGCAAAGAAATAGTTTTAAGTAACTTTTTATAGCAAGATG  
 ATACAATGGTATGAGTGAATCTAAACTCCTTGTGGTATTACCTTGTATGCTGTTACTT  
 TTATTTTATTCCTTGTAAATTAAGTCACAGGCAGGACCCAGTTTCCAGAGAGCAGGGGGG  
 CCGCCAGTGGGTGAGGCACAGGGAGCCCGGTCTATCTTAGAGCCCTGAGCTTCAGG  
 GAAGGGGCGGGCGTGTGCGCCCTCTGGCATCGCTCCGTTGCCTTACACCACGCCCTTC  
 ACCTGCAGTCGCCTAGAAAATTGCTCTCAAATTGAGGGTTTTTCTTCTTCAAATTT  
 TGGACCAAAGTCTCATTCTGTGTTTTGCTGCCTCTGATGCTGGGACCCGGAAGCGGG  
 CGCTCCTCCTGTCTTCTGTGCTCTTTTACCAGCCCGCGTCTGTCCCGGGGGCTCT  
 CCTAGGATCCCTTTCCGTAAGCGTGTAAACAAGGTGTAATATTTATAATTTTTTAT  
 ACCTGTTGTGAGACCCGAGGGGGCGGGCGGGTTTTTATGGTGACACAATGTATATT  
 TTGCTAACAGCAATCCAGGCTCAGTATTGTACCGCGGAGCCACAGGGGACCCACGCA  
 CATTCCGTTGCCTTACCCGATGGCTTGTGACGCGGAGAGAACCGATTAATAACCGTTT  
 GAG  
 AAACCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM\_031991
- 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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\\_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:** 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 (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.