

## Product datasheet for **RG202564**

### **PTBP1 (NM\_031991) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PTBP1 (NM_031991) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PTBP1
Synonyms:	HNRNP-I; HNRNPI; HNRPI; pPTB; PTB; PTB-1; PTB-T; PTB2; PTB3; PTB4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG202564 representing NM\_031991  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGACGGCATTGTCCCAGATATAGCCGTTGGTACAAAGCGGGATCTGACGAGCTTTCTCTACTTGTG  
 TCACTAACGGACCGTTTATCATGAGCAGCAACTCGGCTTCTGCAGCAAACGGAAATGACAGCAAGAAGTT  
 CAAAGGTGACAGCCGAAGTGCAGGCGTCCCTCTAGAGTGATCCACATCCGGAAGCTCCCATCGACGTC  
 ACGGAGGGGAAGTCATCTCCCTGGGGCTGCCCTTGGGAAGGTCACCAACCTCCTGATGCTGAAGGGGA  
 AAAACCAGGCCTTCATCGAGATGAACACGGAGGAGGCTGCCAACACCATGGTGAACACTACACCTCGGT  
 GACCCCTGTGCTGCGCGGCCAGCCATCTACATCCAGTTCTCAACCACAAGGAGCTGAAGACCGACAGC  
 TCTCCAACCAGGCGGGCCAGGCGGCCCTGCAGGCGGTGAACCGTCCAGTCGGGGAACCTGGCCT  
 TGGCTGCCTCGGCGGGCCGTGGACGCAGGGATGGCGATGGCCGGCAGAGCCCGTCTCAGGATCAT  
 CGTGGAGAACCTCTTCTACCCTGTACCCTGGATGTGCTGCACCAGATTTCTCCAAGTTCGGCACAGTG  
 TTGAAGATCATACCTTCAACAAGAACAACAGTTCAGGCCCTGCTGCAGTATGCGGACCCCGTGAGCG  
 CCCAGCACGCAAGCTGTCGCTGGACGGGCAGAACATCTACAACGCTGCTGCACGCTGCGCATCGACTT  
 TTCCAAGCTCACCAGCCTCAACGTCAAGTACAACAATGACAAGAGCCGTGACTACACACGCCAGACCTG  
 CCTTCCGGGGACAGCCAGCCCTCGCTGGACCAGACCATGGCCGCGGCCTTCGGCTTTCGGTCCGAACG  
 TCCACGGCGCCCTGGCCCCCTGGCCATCCCTCGGCGGGCGGGCAGCTGCGGGCGCAGGTCGGATCGC  
 CATCCCGGGCTGGCGGGGCAGAAATCTGTATTGCTGGTCAAGCACTCAACCCAGAGAGAGTCA  
 CCCCAGCCTCTTTATCTTTTCGGCGTCTACGGTGACGTGCAGCGCGTGAAGATCCTGTTCAATAAGA  
 AGGAGAACGCCCTAGTGCAGATGGCGGACGGCAACCAGGCCAGTGGCCATGAGCCACTGAACGGGCA  
 CAAGCTGCACGGGAAGCCATCCGCATCACGCTCTCGAAGCACCAGAACGTGCAGCTGCCCGCGAGGGC  
 CAGGAGGACCAGGCCTGACCAAGGACTACGGCAACTCACCCCTGCACCCTTCAAGAAGCCGGGCTCCA  
 AGAACTCCAGAACATATCCCGCCCTCGGCCACGCTGCACCTCTCCAACATCCCGCCCTCAGTCTCCGA  
 GGAGGATCTCAAGGCTCTGTTTTCCAGCAATGGGGCGTCTGCAAAAGGATTCAAGTCTTCCAGAAGGAC  
 CGCAAGATGGCACTGATCCAGATGGGCTCCGTGGAGGAGGCGGTCCAGGCCCTCATTGACCTGCACAACC  
 ACGACCTCGGGGAGAACCACCACCTGCGGGTCTCCTTCTCCAAGTCCACCATC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG202564 representing NM\_031991  
 Red=Cloning site Green=Tags(s)

MDGIVPDI AVGTKRGSDEL FSTCVTNGPFIMSSNSASAANGNDSKFKGDSRSAGVPSRVIHIRKLPIDV  
 TEGEVISLGLPFGKVTNLLMLKGKNQAFIEMNTEEAANTMVNYYSVTPVLRGQPIYIQFSNHKELKIDS  
 SPNQARAQAALQAVNSVQSGNLALAASAAVDAGMAMAGQSPVLRRIIVENLFYPVTLDLVHQIFSKFGTV  
 LKIIITFTKNNQFQALLQYADPVSQAQAKLSLDGQNIYNACCTLRIDFSKLTSLNVKYNNDKSRDYTRPDL  
 PSGDSQPSLDQTMAAFGLSVPNVHGALAPLAIPSAAGRIAPLAGAGNSVLLVSNLNPVERT  
 PQSLFIFLGVYGDVQRVKILFNKKNALVQMDGNQAQLAMSHLNGHKLHGKPIRITLSKHQNVQLPREG  
 QEDQGLTKDYGNSPLHRFKKPGSKNFQNIFFPSATLHLSNIPPSVSEEDLKVLFSSNGGVVKGKFFQKD  
 RKMALIQMGSVEEAVQALIDLHNHDLGENHHLRVSFSKSTI

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_031991

**ORF Size:** 1593 bp

**OTI Disclaimer:** 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\\_031991.4](#)

**RefSeq Size:** 3241 bp

**RefSeq ORF:** 1596 bp

**Locus ID:** 5725

**UniProt ID:** [P26599](#)

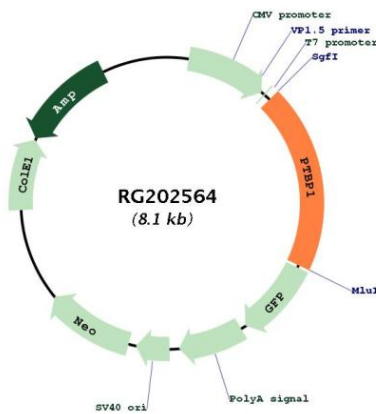
**Cytogenetics:** 19p13.3

**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]

**Product images:**



Circular map for RG202564