

Product datasheet for **RG201779**

PTBP1 (NM_002819) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTBP1 (NM_002819) 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:

>RG201779 representing NM_002819
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGACGGCATTGTCCCAGATATAGCCGTTGGTACAAAGCGGGATCTGACGAGCTTTCTCTACTTGTG
 TCACTAACGGACCGTTTATCATGAGCAGCAACTCGGCTTCTGCAGCAAACGGAAATGACAGCAAGAAGTT
 CAAAGGTGACAGCCGAAGTGCAGGCGTCCCTCTAGAGTGATCCACATCCGGAAGCTCCCATCGACGTC
 ACGGAGGGGGAAGTCATCTCCCTGGGGCTGCCCTTGGGAAGGTCACCAACCTCCTGATGCTGAAGGGGA
 AAAACCAGGCCTTCATCGAGATGAACACGGAGGAGGCTGCCAACACCATGGTGAACACTACACCTCGGT
 GACCCCTGTGCTGCGCGGCCAGCCATCTACATCCAGTTCTCAACCACAAGGAGCTGAAGACCGACAGC
 TCTCCAACCAGGCGGGCCAGGCGGCCCTGCAGGCGGTGAACCGTCCAGTCCGGGAACTGGCCT
 TGGCTGCCTCGGCGGGCCGTGGACGCAGGGATGGCGATGGCCGGCAGAGCCCGTCTCAGGATCAT
 CGTGGAGAACCTTTCTACCCTGTGACCCTGGATGTGCTGCACCAGATTTCTCCAAGTTCGGCACAGTG
 TTGAAGATCATACCTTACCAAGAACAACAGTTCAGGCCCTGCTGCAGTATGCGGACCCCGTGAGCG
 CCCAGCACGCAAGCTGTCGCTGGACGGGCAGAACATCTACAACGCTGCTGCACGCTGCGCATCGACTT
 TTCCAAGCTACACGCTCAACGTCAAGTACAACAATGACAAGAGCCGTGACTACACACGCCAGACCTG
 CCTTCCGGGGACAGCCAGCCCTCGCTGGACCAGACCATGGCCGCGGCCTTCGGTGCACCTGGTATAATCT
 CAGCCTCTCCGTATGCAGGAGCTGGTTTCCCTCCCACCTTTGCCATTCTCAAGTGCAGGCCTTCCGT
 TCCGAACGTCCACGGCGCCCTGGCCCCCTGGCCATCCCTCGGCGGGCGGCAGCTGCGGCGGCAGGT
 CGGATCGCCATCCCGGGCCTGGCGGGGAGGAAATTCTGTATTGCTGGTCAACCTCAACCCAGAGA
 GAGTCAACCCAAAGCCTCTTTATTCTTTTCGGCGTCTACGGTGACGTGCAGCGCTGAAGATCCTGTT
 CAATAAGAAGGAGAACGCCCTAGTGCAGATGGCGGACGGCAACCAGGCCAGCTGGCCATGAGCCACCTG
 AACGGGCAACAAGCTGCACGGGAAGCCATCCGCATCACGCTCTCGAAGCACCAGAACGTGCAGCTGCCCC
 GCGAGGGCCAGGAGGACCAGGCCTGACCAAGGACTACGGCAACTCACCCCTGCACCGCTTCAAGAAGCC
 GGGCTCCAAGAACTTCCAGAACAATCCCGCCCTCGGCCACGCTGCACCTCTCCAACATCCCGCCCTCA
 GTCTCCGAGGAGGATCTCAAGGTCTGTTTTCCAGCAATGGGGCGTCTGCAAAGGATCAAGTCTTCC
 AGAAGGACCGAAGATGGCACTGATCCAGATGGGCTCCGTGGAGGAGGCGGTCCAGGCCCTCATTGACCT
 GCACAACCAGACCTCGGGGAGAACCACCTGCGGGTCTCCTTCTCCAAGTCCACCATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG201779 representing NM_002819
 Red=Cloning site Green=Tags(s)

MDGIVPDIAVGTKRGSDELFTSTCVTNGPFIMSSNSASAANGNDSKFKGDSRSAGVPSRVIHIRKLPIDV
 TEGEIVISLGLPFKVTNLLMLKGNQAFIEMNTEEAANTMVNYTSTVTPVLRGQPIYIQFSNHKELKIDS
 SPNQARAQAALQAVNSVQSGNLAASAAYDAGMAMAGQSPVLRRIIVENLFYPVTLDLVHQIFSKFGTV
 LKIIITFTKNNQFQALLQYADPVSQAQAKSLDQNIYNACCTLRIDFSKLTSLNVKYNNDKSRDYTRPDL
 PSGDSQPSLDQTMAAAFGAPGIIASAPYAGAGFPPTFAIPQAAGLSVPNVH GALAPLAIPSAAAAAAAAAAG
 RIAIPGLAGAGNSVLLVSNLNPVRTPQSLFILFGVYGDVQRVKILFNKKENALVQMDGNQAQLAMSHL
 NGHKLHGKPIRITLSKHQNVQLPREGQEDQGLTKDYGNSPLHRFKKPGSKNFQNIFFPSATLHLSNIPPS
 VSEEDLKVLVSSNGGVVKGFKFKQDKRMALIQMGSVEEAVQALIDLHNHDLGENHHLRVFSKSTI

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_002819

ORF Size: 1671 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_002819.5](#)

RefSeq Size: 3321 bp

RefSeq ORF: 1674 bp

Locus ID: 5725

UniProt ID: [P26599](#)

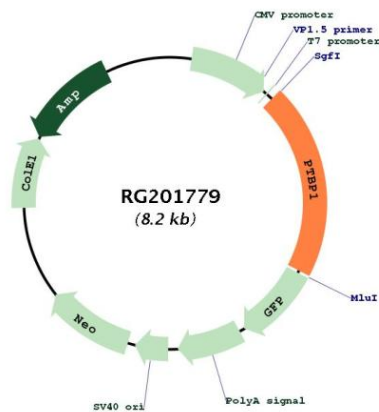
Cytogenetics: 19p13.3

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 RG201779