

Product datasheet for **RC217785**

PTBP1 (NM_031990) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTBP1 (NM_031990) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PTBP1
Synonyms:	HNRNP-I; HNRNPI; HNRPI; pPTB; PTB; PTB-1; PTB-T; PTB2; PTB3; PTB4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC217785 representing NM_031990
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGACGGCATTGTCCCAGATATAGCCGTTGGTACAAAGCGGGGATCTGACGAGCTTTTCTCTACTTGTG
 TACTAAACGGACCGTTTATCATGAGCAGCAACTCGGCTTCTGCAGCAAACGGAAAATGACAGCAAGAAGTT
 CAAAGGTGACAGCCGAAGTGCAGGCGTCCCTCTAGAGTGATCCACATCCGGAAGCTCCCATCGACGTC
 ACGGAGGGGGAAGTCATCTCCCTGGGGCTGCCCTTGGGAAGGTCACCAACCTCCTGATGCTGAAGGGGA
 AAAACCAGGCCTTCATCGAGATGAACACGGAGGAGGCTGCCAACACCATGGTGAACACTACACCTCGGT
 GACCCCTGTGCTGCGCGGCCAGCCATCTACATCCAGTTCTCAACCACAAGGAGCTGAAGACCGACAGC
 TCTCCAACCAGGCGGGCCAGGCGGCCCTGCAGGCGGTGAACCGTCCAGTCCGGGAACTGGCCT
 TGGCTGCCTCGGCGGGCCGTGGACGCAGGGATGGCGATGGCCGGCAGAGCCCGTCTCAGGATCAT
 CGTGGAGAACCTTTCTACCCTGTGACCTGGATGTGCTGCACCAGATTTCTCCAAGTTCGGCACAGTG
 TTGAAGATCATACCTTACCAAGAACAACAGTTCAGGCCCTGCTGCAGTATGCGGACCCCGTGAGCG
 CCCAGCACGCAAGCTGTCGCTGGACGGGCAGAACATCTACAACGCTGCTGCACGCTGCGCATCGACTT
 TTCAAGCTCACCAGCCTCAACGTCAAGTACAACAATGACAAGAGCCGTGACTACACACGCCAGACCTG
 CCTTCCGGGGACAGCCAGCCCTCGCTGGACCAGACCATGGCCCGGCCCTTCGCCTCTCCGTATGCAGGAG
 CTGGTTTCCCTCCACCTTTGCCATTCTCAAGCTGCAGGCTTTCCGTTCCGAAGTCCACGGCGCCCT
 GGCCCCCTGGCCATCCCTCGGCGGGCGGCAGCTGCGGGCGGAGGTCCGATCGCCATCCCGGGCCTG
 GCGGGGGCAGGAAATCTGTATTGCTGGTCAAGCAACCTCAACCCAGAGAGAGTACACCCCAAAGCCTCT
 TTATTTCTTTTCGGCGTCTACGGTGACGTGCAGCGCGTGAAGATCTGTTCAATAAGAAGGAGAAGCCCT
 AGTGCAGATGGCCGACGCAACCAAGGCCAGTGGCCATGAGCCACTGAACGGGCACAAGCTGCACGGG
 AAGCCATCCGCATCACGCTCTCGAAGCACCAGAACGTGCAGCTGCCCGCGAGGGCCAGGAGGACCAGG
 GCCTGACCAAGGACTACGGCAACTCACCCCTGCACCGCTTCAAGAAGCCGGGCTCCAAGAAGTCCAGAA
 CATATCCCGCCCTCGGCCACGCTGCACCTCTCCAACATCCCGCCCTCAGTCTCCGAGGAGGATCTCAAG
 GTCCTGTTTTCCAGCAATGGGGCGTCTCAAAGGATTCAAGTCTTCCAGAAGGACCGCAAGATGGCAC
 TGATCCAGATGGGCTCCGTGGAGGAGGCGGTCCAGGCCCTCATTGACCTGCACAACCACGACCTCGGGGA
 GAACCACCACCTGCGGGTCTCTTCTCCAAGTCCACCATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC217785 representing NM_031990
 Red=Cloning site Green=Tags(s)

MDGIVPDI AVGTKRGSDEL FSTCVTNGPFIMSSNSASAANGNDSKFKGDSRSAGVPSRVIHRLKLPIDV
 TEGEVISLGLPFGKVTNLLMLKGNQAFIEMNTEEAANTMVNYT SVTPVLRGQPIYIQFSNHKELKTDS
 SPNQARAQALQAVNSVQSGNLALAAASAAVDAGMAMAGQSPVLRRIIVENLFYPVTL DVLHQIFSKFGTV
 LKIITFTKNNQFQALLQYADPVS AQHAKLSLDGQNIYNACCTLRIDF SKL TSLNVKYNNDKSRDYTRPDL
 PSGDSQPSLDQTMAAAFASPYAGAGFPPTFAIPQAAGLSVPNVHGALAPLAIPSAAAAAAAAAAGRIAPGL
 AGAGNSVLLVSNLNPERVTPQSLFILFGVYGDVQRVKILFNKKENALVQMDGNQAQLAMSHLNHGKHLHG
 KPIRITLSKHQNVQLPREGQEDQGLTKDYGNSPLHRFKKPGSKNFQNI FPPSATLHL SNIPPSVSEEDLK
 VLFSSNGGVVKGFKFFQKDRKMALIQMGSVEEAVQALIDLHNHDLGENHHLRVFSKSTI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg4195_d09.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_031990

ORF Size: 1650 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_031990.4](#)

RefSeq Size: 3300 bp

RefSeq ORF: 1653 bp

Locus ID: 5725

UniProt ID: [P26599](#)

Cytogenetics: 19p13.3

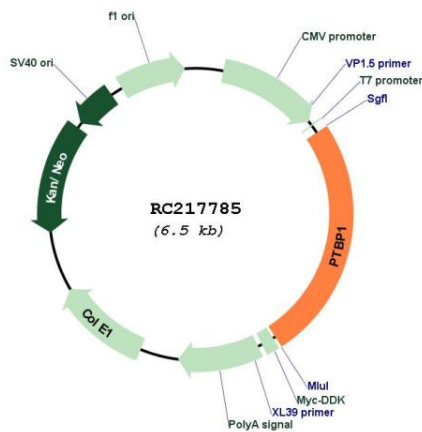
Domains: RRM

Protein Families: Druggable Genome

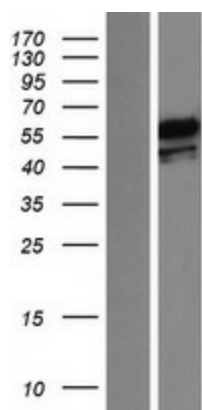
MW: 58.9 kDa

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]

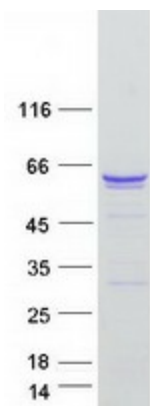
Product images:



Circular map for RC217785



Western blot validation of overexpression lysate (Cat# [LY410400]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217785 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PTBP1 protein (Cat# [TP317785]). The protein was produced from HEK293T cells transfected with PTBP1 cDNA clone (Cat# RC217785) using MegaTran 2.0 (Cat# [TT210002]).