

## Product datasheet for **TP307878**

### PCBP1 (NM\_006196) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human poly(rC) binding protein 1 (PCBP1), 20 µg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone or AA Sequence:** >RC207878 protein sequence  
**Red**=Cloning site **Green**=Tags(s)

MDAGVTESGLNVTLRLLMHGKEVGSIIKKGESVKRIREESGARINISEGNCPERIITLTGPTNAIFK  
AFAMIIDKLEEDINSSMTNSTAASRPPVTLRLVVPATQCGSLIGKGGCKIKEIRESTGAQVQVAGDMLPN  
STERAITAGVPQSVTECVKQICLVMLETLSQSPQGRVMTIPYQPM PASSPVICAGGQDRCSDAAGYPHA  
THDLEGPPLDAYSIQGQHTISPLDLAKLNQVARQQSHFAMMHGGTGFAGIDSSSPEVKGYWASLDASTQT  
THELTIPNNLIGCIIGRQGANINEIRQMSGAIKIANPVEGSSGRQVTITGSAASISLAQYLINARLSSE  
KGMGCS

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-Myc/DDK

**Predicted MW:** 37.3 kDa

**Concentration:** >0.05 µg/µL as determined by microplate BCA method

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

**Storage:** Store at -80°C.

**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** [NP\\_006187](#)

**Locus ID:** 5093



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UniProt ID: [Q15365](#), [Q53SS8](#)

RefSeq Size: 1772

Cytogenetics: 2p13.3

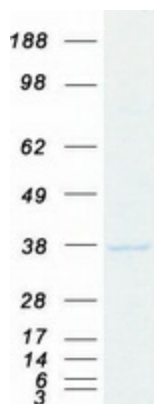
RefSeq ORF: 1068

Synonyms: HEL-S-85; hnRNP-E1; hnRNP-X; HNRPE1; HNRPX

**Summary:** This intronless gene is thought to have been generated by retrotransposition of a fully processed PCBP-2 mRNA. This gene and PCBP-2 have paralogues (PCBP3 and PCBP4) which are thought to have arisen as a result of duplication events of entire genes. The protein encoded by this gene appears to be multifunctional. It along with PCBP-2 and hnRNP-K corresponds to the major cellular poly(rC)-binding protein. It contains three K-homologous (KH) domains which may be involved in RNA binding. This encoded protein together with PCBP-2 also functions as translational coactivators of poliovirus RNA via a sequence-specific interaction with stem-loop IV of the IRES and promote poliovirus RNA replication by binding to its 5'-terminal cloverleaf structure. It has also been implicated in translational control of the 15-lipoxygenase mRNA, human Papillomavirus type 16 L2 mRNA, and hepatitis A virus RNA. The encoded protein is also suggested to play a part in formation of a sequence-specific alpha-globin mRNP complex which is associated with alpha-globin mRNA stability. [provided by RefSeq, Jul 2008]

**Protein Pathways:** Spliceosome

### Product images:



Coomassie blue staining of purified PCBP1 protein (Cat# TP307878). The protein was produced from HEK293T cells transfected with PCBP1 cDNA clone (Cat# [RC207878]) using MegaTran 2.0 (Cat# [TT210002]).