

## Product datasheet for **TP310035L**

### PCBP2 (NM\_005016) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human poly(rC) binding protein 2 (PCBP2), transcript variant 1, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC210035 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MDTGVIIEGGLNVTLRLLMHGKEVGSIIIGKKGESVKKMREESGARINISEGNCPERIITLAGPTNAIFK  
AFAMIIDKLEEDISSSMTNSTAASRPPVTLRLVVPASQCGSLIGKGGCKIKEIRESTGAQVQVAGDMLPN  
STERAITIAGIPQSIIIECVKQICVVMLETLSQSPPKGVTPYRPKPSSSPVIFAGGQDRYSTGSDSASFP  
HTTSPMCLNPDLEGPPLEAYTIQQQYAIQPDLTCLKHLAMQQSHFPMTHGNTGFSGIESSSPEVKGYWA  
GLDASAQTTSHELTIPNDLIGCIIGRQGAKINEIRQMSGAQIKIANPVEGSTDRQVTITGSAASISLAQY  
LINVRLSSETGGMGSS

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	38.5 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
Bioactivity:	Pull-down assay (PMID: <a href="#">25855805</a> )
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:	<a href="#">NP_005007</a>



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**Locus ID:** 5094  
**UniProt ID:** [Q15366](#), [A0A384N6B9](#)  
**RefSeq Size:** 3187  
**Cytogenetics:** 12q13.13  
**RefSeq ORF:** 1098  
**Synonyms:** hnRNP-E2; HNRNPE2; HNRPE2

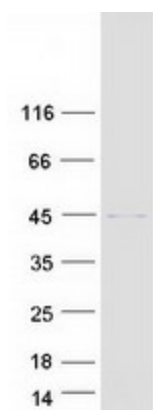
**Summary:** The protein encoded by this gene appears to be multifunctional. Along with PCBP-1 and hnRNPk, it is one of the major cellular poly(rC)-binding proteins. The encoded protein contains three K-homologous (KH) domains which may be involved in RNA binding. Together with PCBP-1, this protein also functions as a translational coactivator of poliovirus RNA via a sequence-specific interaction with stem-loop IV of the IRES, promoting 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. This multiexon structural mRNA is thought to be retrotransposed to generate PCBP-1, an intronless gene with functions similar to that of PCBP2. This gene and PCBP-1 have paralogous genes (PCBP3 and PCBP4) which are thought to have arisen as a result of duplication events of entire genes. This gene also has two processed pseudogenes (PCBP2P1 and PCBP2P2). Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2018]

### Product images:

HS21	-	+	+	+	+	-
beads	-	+	+	+	+	+
PCBP2	+	+	+	+	+	+
TMPyP4	-	0				20x



The i-motif stabilizing ligand (TMPyP4) displaces telomere-associated human poly-C binding protein (PCBP) from human C-rich telomeric DNA. Biotinylated C-rich telomeric DNA HS21 oligo was bound to streptavidin magnetic beads and incubated with PCBP2 (OriGene [TP310035]) in the absence or presence of TMPyP4 at different concentrations. The bound PCBP2 was eluted and analyzed in Western blot with an anti-PCBP2 antibody. Figure cited from Nucleic Acids Res, PMID: 25855805



Coomassie blue staining of purified PCBP2 protein (Cat# [TP310035]). The protein was produced from HEK293T cells transfected with PCBP2 cDNA clone (Cat# [RC210035]) using MegaTran 2.0 (Cat# [TT210002]).