

Product datasheet for PH307878

PCBP1 (NM_006196) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PCBP1 MS Standard C13 and N15-labeled recombinant protein (NP_006187)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC207878
Predicted MW:	37.5 kDa
Protein Sequence:	>RC207878 protein sequence Red=Cloning site Green=Tags(s)

MDAGVTESGLNVTLTIRLLMHGKEVGSIIIGKKGESVKRIREESGARINISEGNCPERIITLTGPTNAIFK
AFAMIIDKLEEDINSSMTNSTAASRPPVTLRLVVPATQCGSLIGKGGCKIKEIRESTGAQVQVAGDMLPN
STERAITIAGVPQSVTECVKQICLVMLELTSQSPQGRVMTIPYQMPASSPVICAGGQDRCSAAGYPHA
THDLEGPLDAYSIQGQHTISPLDLAKLNQVARQQSHFAMMHGGTGAFAGIDSSSPEVKGYWASLDASTQT
THELTIPNNLIGCIIGRQGANINEIRQMSGAIKIANPVEGSSGRQVITITGSAASISLAQYLINARLSSE
KGMGCS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_006187</u>
RefSeq Size:	1772
RefSeq ORF:	1068
Synonyms:	HEL-S-85; hnRNP-E1; hnRNP-X; HNRPE1; HNRPX
Locus ID:	5093



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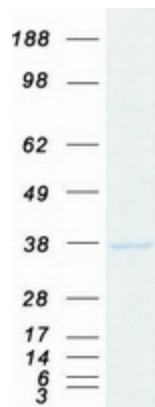
UniProt ID: [Q15365](#), [Q53SS8](#)

Cytogenetics: 2p13.3

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 hnRNPk 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]).