

## Product datasheet for **TP317796**

### **H2BC4 (NM\_003526) Human Recombinant Protein**

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human histone cluster 1, H2bc (HIST1H2BC), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC217796 representing NM_003526 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)  MPEPAKSAPAPKKGSKKAVTKAQKKDGGKKRKRSRKESYSVYVYKVLKQVHPDTGISSKAMGIMNSFVNDI FERIAGEASRLAHYNKRSTITSREIQTAVRLLLPGELAKHAVSEGTKAVTKYTSSK  <b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
Tag:	C-Myc/DDK
Predicted MW:	13.7 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:	<a href="#">NP_003517</a>
Locus ID:	8347
UniProt ID:	<a href="#">P62807</a> , <a href="#">B2R4S9</a>
RefSeq Size:	438
Cytogenetics:	6p22.2



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RefSeq ORF: 378

Synonyms: dj221C16.3; H2B.1; H2B/l; H2BC6; H2BC7; H2BC8; H2BC10; H2BFL; HIST1H2BC

**Summary:** Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes. The linker histone, H1, interacts with linker DNA between nucleosomes and functions in the compaction of chromatin into higher order structures. The protein has antibacterial and antifungal antimicrobial activity. The main transcript variant of this gene is intronless and encodes a replication-dependent histone that is a member of the histone H2B family. This transcript variant lacks a polyA tail but instead contains a palindromic termination element. This gene is found in the large histone gene cluster on chromosome 6. [provided by RefSeq, Apr 2020]

**Protein Families:** Stem cell - Pluripotency

**Protein Pathways:** Systemic lupus erythematosus

### Product images:



Coomassie blue staining of purified HIST1H2BC protein (Cat# TP317796). The protein was produced from HEK293T cells transfected with HIST1H2BC cDNA clone (Cat# [RC217796]) using MegaTran 2.0 (Cat# [TT210002]).