

## **Product datasheet for TP317796**

## OriGene Technologies, Inc.

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## 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** >RC217796 representing NM\_003526 or AA Sequence: Red=Cloning site Green=Tags(s)

MPEPAKSAPAPKKGSKKAVTKAQKKDGKKRKRSRKESYSVYVYKVLKQVHPDTGISSKAMGIMNSFVNDI

FERIAGEASRLAHYNKRSTITSREIQTAVRLLLPGELAKHAVSEGTKAVTKYTSSK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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:** NP 003517

Locus ID: 8347

UniProt ID: <u>P62807</u>, <u>B2R4S9</u>

RefSeq Size: 438 Cytogenetics: 6p22.2





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

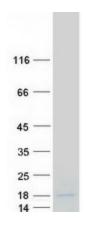
chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes. The linker histone, H1, interacts with linker DNA between nucleosomes and functions in the 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]).