

## Product datasheet for **SC309501**

### H2BC5 (NM\_138720) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	H2BC5 (NM_138720) Human Untagged Clone
Tag:	Tag Free
Symbol:	H2BC5
Synonyms:	dJ221C16.6; H2B.1B; H2B/a; H2B/b; H2B/g; H2B/h; H2B/k; H2B/l; H2BFA; H2BFB; H2BFG; H2BFH; H2BFK; H2BFL; HIRIP2; HIST1H2BC; HIST1H2BD; HIST1H2BE; HIST1H2BF; HIST1H2BG; HIST1H2BI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_138720, the custom clone sequence may differ by one or more nucleotides

```
ATGCTGAACCTACCAAGTCTGCTCCTGCCCAAAGAAGGGCTCCAAGAAGGCGGTGACTAAGGCTCAGA  
AGAAGGACGGGAAGAAGCGCAAGCGCAGCCGCAAGGAGAGCTATTCAGTGTATGTGTACAAGGTGCTGAA  
GCAGGTCCATCCCGACACCGGCATCTCTCCAAGGCAATGGGGATCATGAATTCTTCGTCACGACATC  
TTCGAGCGCATCGCAGGCGAGGCTTCCCGCCTGGCGCATTACAACAAGCGCTCGACCATCACCTCCAGGG  
AGATCCAGACGGCCGTGCGCCTGCTGCTTCCGGGGAGCTGGCCAAGCACGCCGTGTCGGAGGGACCAA  
GGCCGTACCAAGTACACCAGTCCAAGTAA
```

Restriction Sites:	Please inquire
ACCN:	NM_138720



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**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_138720.1](#), [NP\\_619790.1](#)

**RefSeq Size:** 829 bp

**RefSeq ORF:** 381 bp

**Locus ID:** 3017

**UniProt ID:** [P58876](#)

**Cytogenetics:** 6p22.2

**Protein Pathways:** Systemic lupus erythematosus

**Gene Summary:**

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. This gene is intronless and encodes a replication-dependent histone that is a member of the histone H2B family. Two transcripts that encode the same protein have been identified for this gene, which is found in the large histone gene cluster on chromosome 6p22-p21.3. [provided by RefSeq, Aug 2015]

Transcript Variant: This variant (2) differs from variant 1 in its 3' UTR which contains a polyA signal and site. Variants 1 and 2 encode the same protein.