

## Product datasheet for **SC123671**

### **HIST1H2BN (BC011372) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	HIST1H2BN (BC011372) Human Untagged Clone
Tag:	Tag Free
Symbol:	HIST1H2BN
Synonyms:	H2B/d; H2BFD
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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## Fully Sequenced ORF:

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>OriGene sequence for BC011372 edited
GTTGACAGAGCTACCGTCTTCTGTTTTTTTCTCCAATTTTCCGGCAGTTACTCCCAGT
CATGCCCGAGCCCTCAAAGTCCGCTCCTGCCCGAAGAAAGGCTCCAAGAAGGCAGTGAC
AAAGGCCCAGAAGAAGGACGGCAAGAAGCGCAAGCGCAGCCGCAAGGAGAGCTACTCCGT
GTACGTGTACAAGGTGCTGAAGCAGGTCCACCCGACACCGGTATCTCGTCCAAGGCCAT
GGGCATCATGAACTCCTTCGTCAATGACATCTTCGAGCGCATCGCCGGCGAGGCTTCCCG
CCTGGCGCATTACAACAAGCGCTCGACCATCACCTCCAGGGAGATCCAGACGGCCGTGCG
CCTGCTGCTGCCAGGGGAGCTGGCCAAGCACGCGGTGTCGGAGGGCACCAAGGCCGTAC
CAAGTACACCAGTTCCAAGAAGAGAAAAAGATTACAGAGAGCATTAGAAGGCCCA
TGGATTGAGAAGCTCAAGATTTGGCTAAAATTAAGAGTCAGCAACCAATCTCCAGATGA
CATTTATATTGCAAGAGATTGAATGCAGAAAGAAGAATTCAGCTTTCTTTTATTAACAA
GGCATTAGAGAGATTTGCAAAATGTAAAACAGTGTCACTCTTTTTATTTAAAAAATAG
CTATTTTTCATAAAATATGTATGCTAACATAAAATGGGTTTATTACTGTTATTTTAAAT
GAATTAACCAAAATTTTTGTTTTACTATATAATACGGTAAATGTCAATAGTTATAACCT
ACAGAAACACAAATTTCTTGGATTGCAAAGCTCCACCACCTAATATGCTATAGATCAAGG
TTCAAAAGAGAGCTCCCTGGAAAACCTTGGTGTGTTTGTCACTGAAATATTATTTAAG
GAGAACATATTTTATTTAATGACTGTCATTGCTGGCATCCGAACCTAATTTCCCAAGGC
ATCCTCAAATTATCATCTGCATCACTTCATTACTTTTTAAGAGTGAAGTGGGTCATGAG
ACCAGAAGGTTCAAGAAGTGTGCTTACGGGTATATACCACACTAGTAATGTTCAATTTGT
GTTCAAATGACTATTTTTCAAAGTATTTGGAGTATCCCTTCTGACACTTATGTTATGA
TCTAGATATACAGATCCATTTACTTTGTTTGTGTTGATGTCTAGGATTGGACTTTTTA
ATGTTTGGTCTATCATTACATAAAAATTTTTACATAGTCCCAAGTCAAATCAAATTA
TATCCAAGAAATCTTTCTCCTTCATGCTAATAGCCTCTTGCCTTAGAGTAATAATTT
TAAAGGTTATGATATACCTTCTGTTGTTTATTATAAGCATATATGTATGTATTCTTAGG
GAATATTAACCTCATTGCTGTTGATGTCTAGGATTGGACTTTTTAATATTTGTTTCT
ACCGTTACATAAAAATTTTTACATAGTCCCAAGTCAAATCAAATTTATCCAAAGAAA
TCTTTCTCCTTCATCCTAATAGCCTCTTACCTTAGAGTAATAATTTAAATGTTATGA
TATATCCTTCTGTTGTTTATTATAAGCATATATATGTATTCTAGGGAAGATTAACCTG
TATCACAGGAGAGGACTGGAAGTTGATACTATGCAAGATAAACTTTGTCACAGACAGT
CACCTGTTCTTTGGAGGGCCCATTCATCTTTCCAAAAATAATTTCTCTCCCCTACATT
GCCTACATCCCCCTTCCGTCTTCCCTATGAAGACAGTATATAAGCTTCTAGATCTCACT
GGGCTTGGGGGCACTTCACTTATTTTTCATGTGATACCTCCATGCACAAAATAAAATTTT
TTTTTTTCGAGACGGAGTCTTGGCGGTCTCCAGGCTGGAGTGCAGTGGCGCGATCTCG
GCTCACTGCAAGCTCCGCTCCGGGTTTAGGCCATTCTCTGCCCCAGCCTCCTGAGTA
GCTGGGACTACAGGCGCCCGCCACCATGCCCGGCTAATTTTTTTGTGTTTTAGTACCG
ATGGGGTTTCACTGTGTTAGCTAGGATGGTCTCGATCTCTGACCTCGTATCCGCCCCG
CTTGGCCTCCCAAAGTGTGGGATTACAGGCGTGAGCCACCACGCCCGGCCACAAAATAA
ATTTTTATATCTTCTTATTAATAAAAAAAAAAAAAAAAAA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for BC011372 unedited NCCAGTTCAGATTTGTATACGACTCATATAGGGCGGCCGCGATTCCCGGGATATCGTCGA CCCACGCGTCCGCCACGCGTCCGGTTGACAGAGCTACCGTCTTCCTGTTTTTTCTCC AATTTCCGGCAGTTACTCCCAGTCATGCCCGAGCCCTCAAAGTCCGCTCCTGCCCGAA GAAAGGCTCCAAGAAGGCAGTGACAAAGGCCAGAGAAGAAGGACGGCAAGAAGCGCAAGCG CAGCCGCAAGGAGAGCTACTCCGTGTACGTGTACAAGGTGCTGAAGCAGGTCCACCCCGA CACCGGTATCTCGTCCAAGGCCATGGGCATCATGAACTCCTTCGTCAATGACATCTTCGA GCGCATCGCCGGCGAGGCTTCCCGCCTGGCGCATTACAACAAGCGCTCGACCATCACCTC CAGGGAGATCCAGACGGCCGTGCGCCTGCTGCTGCCAGGGGAGCTGGCCAAGCACGCGGT GTCGGAGGGCACCAAGGCCGTACCAAGTACACCAGTTCCAAGAAGAGAAAAAGAAGATT CACAGAGAGCATTAAAGAAGGCCATGGATTAGAAAGCTCAAGATTTGGCTAAAAATTAAG AGTCAGCAACCAATCTCCAGATGACATTTATATTGCAAGAGATTGAATGCAGAAAGAAGA ATTCAGCTTTCTTTATTAACAAGGCATTAGAGAGATTTGCAAATTGTAACAGTGT CACTCTTTTTATTTAAAAAATAGCTATTTTTCATAAAATATGTATGCTAACATAAAATG GGTTTATTACTGTTATTTTTAAATGAATTAACCAAATTTTTTTGTTNTACTATATAATAC GGTAAATGTCAATAGTTATAACCTACAGAAACACAAATCTTTGGATGCAAAGCTCCCCAC CTAATATGCTT
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	BC011372
<b>Insert Size:</b>	2200 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">BC011372.1</a>
<b>RefSeq Size:</b>	2200 bp
<b>Locus ID:</b>	8341
<b>Cytogenetics:</b>	6p22.1
<b>Protein Pathways:</b>	Systemic lupus erythematosus

**Gene 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. This gene is intronless and encodes a replication-dependent histone that is a member of the histone H2B family. Transcripts from this gene lack polyA tails but instead contain a palindromic termination element. This gene is found in the small histone gene cluster on chromosome 6p22-p21.3. [provided by RefSeq, Aug 2015]