

Product datasheet for **SC116823**

Histone H1.2 (HIST1H1C) (NM_005319) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Histone H1.2 (HIST1H1C) (NM_005319) Human Untagged Clone
Tag:	Tag Free
Symbol:	Histone H1.2
Synonyms:	H1.2; H1C; H1F2; H1s-1; HIST1H1C
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116823 sequence for NM_005319 edited (data generated by NextGen Sequencing)

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ATGTCCGAGACTGCTCCTGCCGCTCCCGCTGCCGCGCCTCCTGCCGAGAAGGCCCTGTA
AAGAAGAAGGCGGCCAAAAGGCTGGGGGTACGCCTCGTAAGGCGTCTGGTCCCCCGGTG
TCAGAGCTCATCACCAAGGCTGTGGCCGCTCTAAAGAGCGTAGCGGAGTTTCTCTGGCT
GCTCTGAAAAAGCGTTGGCTGCCGCGGCTATGATGTGGAGAAAAACAAGCCGATC
AACTTGGTCTCAAGAGCCTGGTGAGCAAGGGCACTCTGGTGCAAACGAAAGGCACCGT
GCTTCTGGCTCCTTTAACTCAACAAGAAGGCAGCCTCCGGGGAAGCCAAGCCAAAGTT
AAAAAGGCGGGCGGAACCAACCTAAGAAGCCAGTTGGGGCAGCCAAGAAGCCAAAGAAG
GCGGCTGGCGGCGCAACTCCGAAGAAGAGCGCTAAGAAAACACCGAAGAAAGCGAAGAAG
CCGGCCGCGGCCACTGTAAACAAGAAAGTGCTAAGAGCCAAAGAAGGCCAAGGTTGCG
AAGCCCAAGAAAGCTGCCAAAAGTGCTGCTAAGGCTGTGAAGCCCAAGGCCGCTAAGCC
AAGGTTGTCAAGCCTAAGAAGGCGGCGCCAAGAAGAAATAG

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Clone variation with respect to NM_005319.3



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005319 unedited
 GGGGGTTTAAATTTGTATACGACTCATATAGGCGGCCGCGNATTCGGCACGAGGGCCACT
 TGTACCCGAGTTTTTGTATTCTCAACATGTCCGAGACTGCTCCTGCCGCTCCCGCTGCCGC
 GCCTCCTCGGAGAAGGCCCTGTAAAGAAGAAGGCGGCCAAAAGGCTGGGGGTACGCCT
 CGTAAGGCGTCTGGTCCCCCGGTGTGAGAGCTCATCACCAGGCTGTGGCCGCTCTAAA
 GAGCGTAGCGGAGTTTCTCTGGCTGCTGAAAAAAGCGTTGGCTGCCGCCGCTATGAT
 GTGGAGAAAAACAACAGCCGTATCAAACCTGGTCTCAAGAGCCTGGTGAGCAAGGCACCT
 CTGGTGCAAACGAAAGGCACCGGTGCTTCTGGCTCCTTTAAACTCAACAAGAAGGCAGCC
 TCCGGGAAGCCAAGCCCAAGGTTAAAAAGGCGGGCGGAACCAAACCTAAGAAGCCAGTT
 GGGGCAGCCAAGAAGCCCAAGAAGGCGGCTGGCGGCGCAACTCCGAAGAAGAGCGCTAAG
 AAAACACCGAAGAAGCGAAGAAGCCGGCCGCGGCCACTGTAACCAAGAAAGTGGCTAAG
 AGCCCAAAGAAGGCCAAGGTTGCGAAGCCCAAGAAAGCTGCCAAAAGTGTGCTAAGGCT
 GTGAAGCCCAAGGCCGCTAAGCCCAAGGTTGTCAAGCCTAAGAAGGCGGCCCAAGAAG
 AAATAGGCGAACGCTACTTCTAAAACCCAAAGGCTCTTTTCAGAGCCACCACTGATCTC
 AATAAAAGAGCTGATAATTTCTTTACAAAAANAAAAAAAAAACTCGACTCTAGATTT
 GCGCCCGGTTCATAGCTGTTTCTGAACAGACCCCGGNTGGGATCCCTGTGACCA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_005319 unedited
 GGACCGCGGGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGTAAAAAATATCC
 AGCTCTTTTATTGAGATCAGTGGTGGCTCTGAAAAGACCTTTTGGGTTTTAGAAGTAGGC
 GTTCGCCTATTTCTTCTGGGCGCCGCTTCTTAGGCTTGACAACCTTGGGCTTAGCGGC
 CTTGGGCTTACAGCCTTAGCAGCACTTTTGGCAGCTTTCTTGGGCTTCGCAACCTTGGC
 CTTCTTTGGGCTCTTAGCCACTTTCTTGGTTACAGTGGCCGCGGGCGGCTTCTTCGCTTT
 CTTGCGTGTCTTCTTAGCGCTTCTTTCGGAGTTGCGCCGCCAGCCGCTTCTTGGGCTT
 CTTGGCTGCCCAACTGGCTTCTTAGGTTTGGTCCGCCCGCTTTTTAACCTTGGGCTT
 GGCTTCCCGGAGGCTGCCTTCTTGTGAGTTTAAAGGAGCCAGAAGCACCGGTGCCTTT
 CGTTTGCACCAGAGTGCCCTTGCTCACCAGGCTCTTGAGACCAAGTTTGATACGGCTGTT
 GTTTTTCTCCACATCATAGCCGGCGGCAGCCAACGCTTTTTTTCAGAGCAGCCAGAGAAAC
 TCCGCTACGCTCTTTAGAGGCGGCCACAGCCTTGGTGTAGCTCTGACACCGGGGGACC
 AGAGCCTTACGAGGCGTACCCACGCTTTTTTGGCCGCTTCTCTTTACAGGGGCCCT
 TCTCCGCAAGAAGCGCCCAACGGGAGCCGCGCAGAGCANTCTCGGACATGTTGAGAACAA
 AAATCGGGTACAAGTGCCCTTCGTGCCGAATTCGGCCGCCCTAAATGAAGCCGATACA
 AAATCTGACGGTCACTAACCGACCTGCTTATTAGACCTCCACCGACCCGCTACCGCCA
 TTTGGTACGGGGCGG

Restriction Sites:

NotI-NotI

ACCN:

NM_005319

Insert Size:

820 bp

OTI Disclaimer:

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).

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_005319.3](#), [NP_005310.1](#)

RefSeq Size: 732 bp

RefSeq ORF: 642 bp

Locus ID: 3006

UniProt ID: [P16403](#)

Cytogenetics: 6p22.2

Domains: linker_histone

Gene Summary: Histones are basic nuclear proteins responsible for 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 H1 family. Transcripts from this gene lack polyA tails but instead contain a palindromic termination element. This gene is found in the large histone gene cluster on chromosome 6. [provided by RefSeq, Aug 2015]