

Product datasheet for SC117916

H2AC18 (NM_003516) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	H2AC18 (NM_003516) Human Untagged Clone
Tag:	Tag Free
Symbol:	H2AC18
Synonyms:	H2A; H2a-615; H2A.2; H2A/O; H2A/q; H2AC19; H2AFO; HIST2H2AA; HIST2H2AA3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_003516 edited
 ATGTCTGGTCGTGGCAAGCAAGGAGGCAAGGCCCGCCGAAGGCCAAGTCGCGCTCGTCC
 CGCGCTGGCCTTCAGTCCCGGTAGGGCGAGTGCATCGCTTGTGCGCAAAGGCAACTAC
 GCGGAGCGAGTGGGGCCGGCGCCCGCTACATGGCTGCGGTCTCGAGTATCTGACC
 GCCGAGATCCTGGAGCTGGCGGGCAACGCGCTCGGGACAACAAGAAGACGCGCATCATC
 CCTCGTCACTCCAGCTGGCCATCCGCAACGACGAGGAAGTGAACAAGCTGCTGGGCAA
 GTCACCATCGCCAGGGCGCGTCTTGCCTAACATCCAGGCCGACTGCTCCCTAAGAAG
 ACGGAGAGTCACCACAAGGCAAAGGGCAAGTGA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_003516 unedited
 GGTTGATTATTTAGTAATACGATTTACTATAGGGCGGNCGCAATTCGGACGAGGGAGT
 TTCTCTCGGTGACTACTATCGCTGTCATGTCTGGTCGTGGCAAGCAAGGAGGCAAGGCC
 GCGCAAGGCCAAGTCGCGCTCGTCCCGCTGGCCTTCAGTCCCGGTAGGGCGAGTGC
 ATCGCTTGTGCGCAAAGGCAACTACGCGGAGCGAGTGGGGCCGGCGCGCCCGTCTACA
 TGGCTGCGGTCTCGAGTATCTGACCGCCGAGATCCTGGAGCTGGCGGGCAACGCGGCTC
 GGGACAACAAGAAGACGCGCATCATCCCTCGTCACTCCAGCTGGCCATCCGCAACGACG
 AGAACTGAACAAGCTGCTGGGCAAAGTACCATCGCCAAGGCGGTGTCTTGTCTAACA
 TCCAGGCCGTAAGTCTCCCTAAGAAAACGGACAGTACCACAAGGCAAAGGGCAAGCGA
 AGCTGACCTCCGCCCCAAGTGGGCCAGCCCGCCGCGTCTCCAAGCGCACCCGTGAAC
 TCAAAAGGCTCTTTAGAGCCCCCACCTTTTTCAATAACAAGAAGTCTTATGCGCGCGC
 ACTCTCCCAAAAAAACACAACTCCACTCTTAATTGCGGCCGCGGCCATACCTGCCCC
 CTGAAAAGATCCCGGTTGGATTCTTGGACCCCTCCCCAAGCCTTACTGGCCCTGCAATC
 GCCACTCCATGCCCCAACCTTACCTAACAACTAAATGGATCCTTTCCCCGAACAGCG
 GACCTTCTAATACACGGGACAAAGGCGAGCACTACCACGAGAAGCTGGACACAACCGTA
 GGCCGCGCGGTATAGGCACCCCGCCGACGCAACACCTGACCTTGAACCCTGCCTCGG
 TCT



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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_003516 unedited CGCGGCCCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTGGAGAGTGACCAGCATTAAAC AACTCTTTTATTTGAAAACGTGGGTGGCTCTGAAAAGAGCCTTTTGAGTTCACAGGTGCC CCTTCGAGACGCGGGCCGGGCTGGGCCCACTTGGGCCGGACGTACGCCTCACTTGCCCTT TGCCTTGTGGTGA CTCTCCGTCTTCTTAGGGAGCAGTACGGCCTGGATGTTAGGCAAGAC GGCCAGCTGGAGGTGACGAGGGATGATGCGCGTCTTCTTGTGTCGCCGAGCCGCTTGCC CGCCAGCTCCAGGATCTCGGCGGTCAGATACTCGAGACCGCAGCCATGTAGACGGGCGC GCCGCCCCCACTCGCTCCGCGTAGTTGCCTTTGCGCAGCAAGCGATGCACTCGCCCTAC CGGAACTGAAGGCCAGCGGGACGAGCGGACTTGGCCTTGGCGGGCCCTTGCCCTC TTGCTTGCCACGACCAGACATGACAGCGATAGTAGTCACCGAGAGAACTCCCCTCGTGC CGAATTCGCGGCCCCCTATAGTGAGTCGTAATACAAAATTCTGACGGGTCCTAAACG AGCTCTGCTTATATAGACCTCCACCGTACACGCCTACCGCCATTTGCGTAACCGGGCG GGGTTATTACGACCTTTGAAAAGCCCGTGATTTTGGGGCAAAACAAACCCCTTGCCGG AATGGGGGGGACTGGGAAACCCCGGGAGCAAACGCTTTCCCGCCATTGTGGACTGCCAA ACCCATTCCTGGGATACCGAGACTAACCTAAAGCGCTGCCCATCGAAAGTCCGTACGGC TGTA CTGGCAAAGCCGGGGGCCCTTT
Restriction Sites:	NotI-NotI
ACCN:	NM_003516
Insert Size:	630 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:	<ol style="list-style-type: none"> 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_003516.2 , NP_003507.1
RefSeq Size:	534 bp
RefSeq ORF:	393 bp
Locus ID:	8337
UniProt ID:	Q6FI13
Cytogenetics:	1q21.2
Domains:	H2A, histone
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. 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 H2A family. Transcripts from this gene lack polyA tails but instead contain a palindromic termination element. This gene is found in a histone cluster on chromosome 1. This gene is one of four histone genes in the cluster that are duplicated; this record represents the centromeric copy. [provided by RefSeq, Aug 2015]