

Product datasheet for **SC117915**

HIST1H2AK (HIST1H2AM) (NM_003514) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HIST1H2AK (HIST1H2AM) (NM_003514) Human Untagged Clone
Tag:	Tag Free
Symbol:	HIST1H2AK
Synonyms:	dj193B12.1; H2A.1; H2A/n; H2AC11; H2AC13; H2AC15; H2AC16; H2AFN; HIST1H2AM
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_003514, the custom clone sequence may differ by one or more nucleotides

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ATGTCTGGACGTGGCAAGCAGGGCGGCAAGGCTCGCGCCAAGGCCAAAACCCGCTCCTCTAGAGCTGGGC
TCCAATTTCTGTAGGACGAGTGCACCGCCTGCTCCGCAAGGGCAACTACGCTGAGCGGGTCGGGGCCGG
CGCGCCGGTTTACCTGGCGGGGTGCTGGAGTACCTAACTGCCGAGATCCTGGAGCTGGCGGGCAACGCA
GCCCGCGACAACAAAAGACCCGCATCATCCCGCGCCACTTGCAGCTGGCCATCCGCAACGACGAGGAGC
TCAACAAGCTGCTTGGTAAAGTTACCATCGCTCAGGGCGGTGTTCTGCCTAACATCCAGGCCGTACTGCT
CCCCAAGAAGACTGAGAGCCACCACAAAGCTAAGGGCAAGTAA
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_003514 unedited CGTCCCTANCTGATGNACCGCGGCCGCTTTTCTANGANCGAGTTTTTTTTTTTTTTTTTT TGGGGATCATAAACTTTTAAATATCAGATAAATCATTAAAGAAATTGCATTCTGTA ATGACCACACGGGAACCTTGCTAGAGTCAAGAGAACTTGCTACTAGTAATTATGAAGACA CCTTTACGGTGAGCGTTATTTAAACCCTACTAGAGTTTTGGGTGGGACTCAAGAGCAAG GGGTGGCCACCTGTGGACGAGGGTCCCTGTTGTTAACAGAACACGTTGCCACCTCGCA AGTATGCAGCCCAATCAGTCCCCAGGGTCTCGGTTCCCGTTGCGCCCTTCCCATGGCCA CTGCGCTCATTGAGCCTAGGGTGATCAGGCCTCCGGCCTATAAAGAAGTGCAGGATC AGTGCGGCTCTTTTCTCGAGATGGTAGGTGGCTCTGAAAAGAGCCTTTATGTCCATCAA GGGGCCCCGGGGCGGGCGGCCCTCACTTGCCCTTGCCCTTGTGGTGGCTCTCCGTCT TCTTGGGCAGCAGTACGGCCTGGATGTTGGGCAGGACGCCACCCTGCGCGATGGTACGC GGCCCAGCAGCTTGTGAGCTCCTCGTCTTGCAGTGGCCAGCTGCAGGTGGCGCGGA TGATGCGCGTCTTCTTGTGTCGCGCGCCGCGTTGCCGGAAGCTCCAGGATCTCGGCAG TCAAGTACTCGAGACCCGGGCCAGATAGACCGNGCGCCGGCCACGCGCTCCGCAT AGTTGCCCTTGCAGCAACCGGTGCACGCGGCCACGGGAACGCAGNCCCGCGCGCG ACGAGCGCGACTTACCCTTGGCGCGCCCTTGGCACCTGNTTACACGACCGGAATT
Restriction Sites:	NotI-NotI
ACCN:	NM_003514
Insert Size:	1000 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_003514.2 , NP_003505.1
RefSeq Size:	487 bp
RefSeq ORF:	393 bp
Locus ID:	8336
UniProt ID:	P0C0S8
Cytogenetics:	6p22.1
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 the small histone gene cluster on chromosome 6p22-p21.3. [provided by RefSeq, Aug 2015]