

Product datasheet for **SC125294**

Histone H2A.X (H2AFX) (NM_002105) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Histone H2A.X (H2AFX) (NM_002105) Human Untagged Clone
Tag:	Tag Free
Symbol:	Histone H2A.X
Synonyms:	H2A.X; H2A/X; H2AFX
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC125294 sequence for NM_002105 edited (data generated by NextGen Sequencing)

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ATGTCGGGCCGCGCAAGACTGGCGCAAGCCCCGCGCCAAGGCCAAGTCGCGCTCGTCG  
CGCGCCGGCCTCCAGTTCAGTGGGCCGTGTACACCGGCTGCTGCGGAAGGGCCACTAC  
GCCGAGCGGTTGGCGCCGGCGCCAGTGTACCTGGCGCAGTCTGGAGTACCTCACC  
GCTGAGATCCTGGAGCTGGCGGCAATGCGGCCCGCGACAACAAGAAGACGGAATCATC  
CCCCGCCACCTGCAGCTGGCCATCCGCAACGACGAGGAGCTCAACAAGCTGCTGGGCGGC  
GTGACGATCGCCAGGGAGGCGTCTGCCAACATCCAGGCCGTGCTGCTGCCAAGAAG  
ACCAGCGCCACCGTGGGGCCGAAGGCGCCCTCGGGCGGCAAGAAGGCCACCCAGGCCTCC  
CAGGAGTACTAA
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Clone variation with respect to NM_002105.2



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_002105 unedited NCCCGTTTCAGATTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGTCTGTT CTAGTGTTTGAGCCGTGCTGCTTACCCGGTCTACCTCGCTAGCATGTCGGGCCGCGGCAA GACTGGCGGCAAGGCCCGCGCAAGGCCAAGTCGCGCTCGTCGCGCGCCGGCCTCCAGTT CCCAGTGGGCCGTGTACACCGGTGCTGCGGAAGGGCCACTACGCCGAGCGCGTTGGCGC CGGCGGCCAGTGTACCTGGCGGCAGTGTGGAGTACCTACCCGCTGAGATCCTGGAGCT GGCGGGCAATGCGGCCCGCGACAACAAGAAGACGCGAATCATCCCCGCCACCTGCAGCT GGCCATCCGCAACGACGAGGAGCTCAACAAGCTGCTGGGCGCGTGACGATCGCCAGGG AGGCGTCTGCCAACATCCAGGCCGTGCTGCTGCCAAGAAGACCAGGCCACCGTGGG GCCGAAGGCGCCCTCGGGCGGCAAGAAGGCCACCCAGGCCTCCCAGGAGTACTAAGAGGG CCCAGCGCCGCGGCCGCCAGGCCTCCCCATGCCACCACAAAGGCCCTTTTAAGGGCC ACCACCGCCCTCATGGAAAGAGCTGAGCCGCTTACAGCTGCGGGGCAAGCGGGCCCGNN TTCCTTTTCCCTTCCCCTTCCCCTCGCCGNCCTCGNCGNCCGNCNTNNGAGTCCCAGCCG CCCCCGCTCCCGTNC CGCACCGCTGCCGNNGTGNCNGCTCGGGCCCTGCCCTGTCCGCCG TNCGCCTTCGNGNTAGGGTTCGGGCTTTCCGATGCNGCTTTGGCGCTCTTCGGGACTNC GTGGGCGCGAAGACCACCTGCCGGGGGAAGGGCCGNGGNGCCNACCTGNCCGNCCT CGNGTTCGTGACTCAACCGCCATNCCGAGTGCTAAGGGGCTGCGGGGA
Restriction Sites:	NotI-NotI
ACCN:	NM_002105
Insert Size:	2000 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_002105.1 , NP_002096.1
RefSeq Size:	1585 bp
RefSeq ORF:	432 bp
Locus ID:	3014
UniProt ID:	P16104
Cytogenetics:	11q23.3
Domains:	H2A, histone
Protein Families:	Druggable Genome

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 encodes a replication-independent histone that is a member of the histone H2A family, and generates two transcripts through the use of the conserved stem-loop termination motif, and the polyA addition motif. [provided by RefSeq, Oct 2015]