

## Product datasheet for SC110528

### Histone H2A.J (H2AFJ) (NM\_177925) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Histone H2A.J (H2AFJ) (NM_177925) Human Untagged Clone
Tag:	Tag Free
Symbol:	Histone H2A.J
Synonyms:	H2AFJ
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	<p>&gt;OriGene ORF within SC110528 sequence for NM_177925 edited (data generated by NextGen Sequencing)</p> <p>ATGTCCGGTCGCGGGAACAGGGCGGCAAGTGCAGCAAGGCCAAATCCCGCTCCTCC            CGCGCGGCCTGCAGTTCCTCGGTGGGCCGAGTGACAGACTGCTGCGCAAAGGGAACCTAC            GCGGAGCGAGTGGCGCGGGGCCCGGTGTACCTGGCGCGGTGTTGGAGTACCTTACG            GCGGAGATCCTGGAGCTGGCTGGCAACGCCGCGGTGACAACAAGAAGACCAGGATAATT            CCCC GCCACCTGCAGCTCGCCATCCGCAACGACGAGGAGTTAAACAAGCTGCTGGGCAAA            GTGACCATCGCTCAGGGCGGCGTCTGCCAACATCCAGGCCGTGCTGCTGCCAAGAAG            ACGGAGAGTCAGAAGACGAAGAGCAAATGA</p> <p>Clone variation with respect to NM_177925.2</p>
5' Read Nucleotide Sequence:	<p>&gt;OriGene 5' read for NM_177925 unedited</p> <p>ACGAGGGTTTGTAGAGGCAGTTCGGGTGCGGTACGTTGCATTCCGGTACCGGNACGCCGA            GAGCGTTTGTCTCCGTCTCTGGAGTTGTAGGCGAGAGGTGATCATGTCCGGTCGCGGGA            AACAGGGCGGCAAGTGCAGCAAGGCCAAATCCCGCTCCTCCGCGCGGGCCTGCAGT            TCCCGGTGGGCCGAGTGACAGACTGCTGCGCAAAGGGAACACGCGGAGCGAGTGGGCG            CCGGGGCGCCGGTGTACCTGGCGCGGTGTTGGAGTACCTTACGCGGAGATCCTGGAGC            TGCTGCGCAACGCCGCGGTGACAACAAGAAGACCAGGATAATCCCGCCACCTGCAGC            TCGCCATCCGCAACGACGAGGAGTTAAACAAGCTGCTGGGCAAGTGACCATCGCTCAGG            GCGGCGTCTGCCCAACATCCAGGCCGTGCTGCTGCCAAGAAGACGGAGAGTCAGAAGA            CGAAGAGCAATGACCCTGACGCCGCCCTCAGGGGAGCTGGCTCCCCAGCAAAGGCCCT            TTTTCATGGTCTGCCGAATGCTTTGAATGTGCTTGGATGTATTGGAGGGCCGGTGACA            TCTACGGGGGAAGGTGGGCGGCCNAGGGTCCCGCGGGAGCCAATAAAGTTGGTGAATAA            CGTTTGGTCNAGAGAGCTGTGTAGTCGCGGGGACATGTCGGATGGCCCCAGGGGAAGGGG            GGCGACCGGGAACCCCTGGAGCAGGCCTGG</p>
Restriction Sites:	NotI-NotI


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<b>ACCN:</b>	NM_177925
<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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<u>NM_177925.1, NP_808760.1</u>
<b>RefSeq Size:</b>	725 bp
<b>RefSeq ORF:</b>	390 bp
<b>Locus ID:</b>	55766
<b>UniProt ID:</b>	<u>Q9BTM1</u>
<b>Cytogenetics:</b>	12p12.3
<b>Protein Pathways:</b>	Systemic lupus erythematosus
<b>Gene Summary:</b>	<p>Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. This gene is located on chromosome 12 and encodes a replication-independent histone that is a variant H2A histone. The protein is divergent at the C-terminus compared to the consensus H2A histone family member. This gene also encodes an antimicrobial peptide with antibacterial and antifungal activity.[provided by RefSeq, Oct 2015]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the functional protein. ##RefSeq-Attributes-START## Protein has antimicrobial activity :: PMID: 21178486</p> <p>RefSeq Select criteria :: based on single protein-coding transcript replication-independent histone :: PMID: 25731851 ##RefSeq-Attributes-END## COMPLETENESS: complete on the 3' end.</p>