

## Product datasheet for **SC303616**

### Histone H1.4 (HIST1H1E) (NM\_005321) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Histone H1.4 (HIST1H1E) (NM_005321) Human Untagged Clone
Tag:	Tag Free
Symbol:	Histone H1.4
Synonyms:	dj221C16.5; H1.4; H1E; H1F4; H1s-4; HIST1H1E; RMNS
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC303616 sequence for NM_005321 edited (data generated by NextGen Sequencing)

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ATGTCCGAGACTGCGCCTGCCGCGCCCGCTGCTCCGGCCCTGCCGAGAAGACTCCCGTG
AAGAAGAAGGCCCGCAAGTCTGCAGGTGCGGCCAAGCGCAAAGCGTCTGGGCCCCCGGTG
TCCGAGCTCATTACTAAAGCTGTTGCCGCTCCAAGGAGCGCAGCGCGTATCTTTGGCC
GCTCTCAAGAAAGCGCTGGCAGCCGCTGGCTATGACGTGGAGAAGAACAACAGCCGCATC
AAGCTGGGTCTCAAGAGCCTGGTGAGCAAGGGCACCTGGTGCAGACCAAGGGCACCGGC
GCGTCGGGTTCTTCAAACCTCAACAAGAAGGCGGCCTCTGGGGAAGCCAAGCCTAAGGCT
AAAAAGGCAGGCGCGCCAAGGCCAAGAAGCCAGCAGGAGCGGCGAAGAAGCCCAAGAAG
GCGACGGGGCGGCCACCCCAAGAAGAGCGCCAAGAAGACCCCAAGAAGGCGAAGAAG
CCGGCTGCAGCTGCTGGAGCCAAAAAGCGAAAAGCCGAAAAAGGCGAAAGCAGCCAAG
CCAAAAAGGCGCCAAGAGCCAGCGAAGGCCAAAGCAGTTAAACCCAAGGCGGCTAAA
CCAAAGACCGCCAAGCCAAGGCAGCCAAGCCAAGAAGGCGGCAGCCAAGAAAAAGTAG

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Clone variation with respect to NM\_005321.2



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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_005321 unedited NGGCCATCGGAATGGCAACTNCCAGNCCAGNAAAGCACTGGGGNAGGGTCACAGGNATG CCACCCGGGCTCTGTTTCAGGAAACAGCTATGACCGCGGCCGAATCTAGAGTCGACAAGC TTGATATCGGTACCAGATCTGAATTCGCCCTTTGTTGGGCTTCTAAGCAGTTGGCCAAAG GAACCTTCTACTTTTTCTTGGCTGCCGCCTTCTTGGCTTGGCTGCCTTGGGCTTGGCGG TCTTTGGTTTAGCCGCCTTGGGTTAACTGCTTGGCCTTCGCTGGGCTCTTGGCGCCT TTTTGGCTTGGCTGCTTTCGCCCTTTTCGGGCTTTTCGCTTTTTTGGCTCCAGCAGCTG CAGCCGGCTTCTTCGCCCTTCTTGGGGTCTTCTTGGCGCTCTTCTGGGGTGGCCGCC CCGTCGCCTTCTTGGGCTTCTTCGCCGCTCCTGCTGGCTTCTTGGCCTTGGCCGCGCCTG CCTTTTTAGCCTTAGGCTTGGCTTCCCCAGAGGCCGCCTTCTTGTGAGTTGAAGGAAC CCGACGCGCCGGTGCCCTTGGTCTGCACCAGGGTGCCTTGTCCACCAGGCTCTTGGAGC CCAGCTTGATGCGGCTGTTGTTCTTCTCCACGTATAGCCAGCGGCTGCCAGCGCTTTCT TGAGAGCGGCCAAAGATACGCCGCTGCGCTCCTGGAGGGGCAACAGCTTTAGTAATGA GCTCGGACACCGGGGCCAGACGCTTTGCGCTTGGCCGCACCTGCAGACTTGGGGCCT TCTTCTTACCGGAGTCTTCTCGCAGGGGCCGAACAGCGGGGCCCGCAAGCGCAGTCT CGGACATGTTGAAAGCAAAGGGCGAAATCGCGGCCGCCCTATAGTGAGTCGTAATG
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_005321
<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>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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>RefSeq:</b>	<a href="#">NM_005321.2</a> , <a href="#">NP_005312.1</a>
<b>RefSeq Size:</b>	785 bp
<b>RefSeq ORF:</b>	660 bp
<b>Locus ID:</b>	3008
<b>UniProt ID:</b>	<a href="#">P10412</a>
<b>Cytogenetics:</b>	6p22.2

**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]