

Product datasheet for **SC322477**

HIST1H2AK (HIST1H2AG) (NM_021064) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HIST1H2AK (HIST1H2AG) (NM_021064) Human Untagged Clone
Tag:	Tag Free
Symbol:	HIST1H2AK
Synonyms:	H2A.1b; H2A/p; H2AC13; H2AC15; H2AC16; H2AC17; H2AFP; H2AG; HIST1H2AG; pH2A/f
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for SC322477
 GTAGTGAGTTGCGCTCGCTATGTCTGGACGTGGCAAGCAGGGAGGCAAAGCCCGCCTAA
 GGCCAAGACTCGCTCTTCTAGGGCCGGTCTCCAGTTCCCGTGGGCCGAGTGCACCGCCT
 GCTCCGCCAAAGGCAACTATGCCGAGCGGGTCGGGGCCGGCGCCGGTGTATCTGGCAGC
 GGTGCTGGAGTACCTGACCGCCGAGATCCTGGAAGTGGCGGGCAACGCGGCCCGCAGAA
 CAAGAAGACCCGCATCATCCCGCGTCATCTCCAAGTGGCCATCCGCAACGACGAGGAGCT
 CAACAAGCTGCTGGGCAAAGTCACCATCGCACAGGGCGGTGTCTGCCCCAACATTCAGGC
 CGTGCTACTGCCAAAAAGACTGAGAGCCACCACAAGGCCAAGGGCAAGTAACTATCTGT
 ACTAGTTTGTGGCAGCTCAAGTAAAATCGAGTCCAAACCAACGGCTCTTTTCAGGGCCAC
 CCACGTCTTCTCTAAAAGAACTTAACATTTATTCCATGTGAAAGAAAGTGAACATGGAC
 AAGACTCTAGTCATAAATTACCCATCTTTTTGAAAACAGTGTAGCGAACACCGCAGATTT
 AAAAGAAAACTAGAGGGAAGGTGGTCCAGATTTTACCACGCTTAAAAGTTAAGATGTGA
 ACAAATCTCTTAGGCCATTACTTAATTTTAACTTAATCAGTGTGTGCCACAGAGCACC
 AGTGGCTTCGTGAGTCTTGAAGCACTTTGGCCAAAAGATTATCGCCCGGCTAGAAT
 TTAGCAGACAGCTGTTCCACGCGGGCCAGGGCGCATGAAGAAGTCCCGCGCTACGTGC
 CCGGCACAGTGGCCCTGCGCGACGTTTCGGCGCTACCAGAACTCCGAGCTGCTGATCAGCA
 AGCTGCCGCTCCTGCGAGAGCTCGGCGGTGACGCCGTGCACGAGAGCGAGGCTGAAGAA
 CTTTGTGACACAATAGTCCACCTCCCTGCAAAGGCTCTGTGAGAGCTCACATCTTCTCT
 GATGGATAGCTGTGAAGCATTCTCTTACCACCTACTGCATGTTGCAAAGTATTCCTTT
 AAAATGAAGTGAATAAACTACTGGGATGACGTTATCTGGAGCCCAAGAAAGATGGCTCAT
 TTGAAAGGCCTAATATCCCAAGTTGCTTACCTAGAAGAACTTGACAGGATAGTTAATAA
 TAAACCTTAAAACCCATGAAGAAATCTGAGGTAAGTGTAGCACACAGACTGTTAAAAT
 GTCTGCCCTCACAGATAGGAGGGAAAATATATAGAGGATTATAATATGGTTCAACAATGT
 TGATGAGTATTAGAAATGTACATTAGAAATATTAGAAATGTTTATGACTATTAGAAAAGT
 ACAAGGTATTGGCGTTCCTGACACAACTGAGGCCTCCTAGCAAGACTGGCAGTTTTCT
 GTAAGGAGGGTTATTTACTACGGTAGTGCAAATAACTTTTGGTGTGTAGCTAAATAAG
 GAATACTCATGCCAAGATTGCACAATTGTGCCTCCTCCTCTGTTCACTGAACTCTGATG
 TAATTTTTTTTTTTTTTTTGGAGACGGAGTCTCGCTCTGTCGCCCAGGCTGGAGTGCAGTG
 GCGCTATCTCGGCTCACTGCAAGCTCCGCCTCCCGGGTTCAGCCATTCTCCTGCCTCAG
 CCTCCTGAGTAGCTGGGGCTACAGGCGTCTGCCACCATGCCAGCTACTTTTTTGTATTT
 TTAGTAGATACGGGGTTTACCCTGTTAGCCAGGATGGTCTTGATGTCCTGACCTCGTGA
 TCCACCGCCTCGGCCTCCCAAAGTGTGGGATTACCGCGTAAGCCACCACGCCCGGCC
 CACTCTGAAGTAATCTTAAAGAACGTTAACTCATTTTTCTTGTGTATTGTAGACTTTT
 TGGCTGTCTGGTAACATGGAAAATCTCAGAATGATGTTTTAAGTATATAAAATGCCAAAC
 AAAGTTAAATTACAGTTATCAAAGTATTTTTAAAACCTTCATAGTGATAAATGAGACTATA
 TAGTTATATTGTTAATATAGTTAACACATTACATGATTTGGTGAGCCTAATTGCTGTTAC
 TAATTAGAGGAGTAAAAATGTTTACGATAACTCAGCAATTGTAATGAGAAATGAAACAT
 CTAATGTCTTTTGGGTTACAAAGTAACAGGTAAGTACTGAGATTTGTGGCCTAAATTCATAA
 AAGTGAATGTTCAAGTCAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_021064

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: 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.

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:

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_021064.3](#), [NP_066408.1](#)

RefSeq Size: 2267 bp

RefSeq ORF: 393 bp

Locus ID: 8969

UniProt ID: [P0C0S8](#)

Cytogenetics: 6p22.1

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 histone microcluster on chromosome 6p21.33. [provided by RefSeq, Aug 2015]