

## **Product datasheet for SC117915**

## OriGene Technologies, Inc.

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## 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

None

Selection:

Vector: pCMV6-XL5

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

CCCCAAGAAGACTGAGAGCCACCACAAAGCTAAGGGCAAGTAA

>OriGene 3' read for NM\_003514 unedited



3' Read Nucleotide Sequence:

Restriction Sites: Notl-Notl
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:** 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

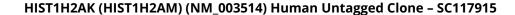
 Locus ID:
 8336

 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]