

## Product datasheet for RC209336

### H2AC1 (NM\_170745) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** H2AC1 (NM\_170745) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** H2AC1  
**Synonyms:** bA317E16.2; H2AA; H2AFR; HIST1H2AA; TH2A  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC209336 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGGACGAGGGAAGCAGGGAGGAAAAGCACGCGCCAAGTCTAAGTCTCGCTCTTCTAGAGCGGGTT  
TGCAGTTTCCCGTAGGCCGGATCCATCGTCTGCTTCGTAAGGGAAACTATGCAGAGCGGATAGGGGCAGG  
CGCACCAGTGTATTTGGCGGCAGTGTTAGAGTATCTCACAGCAGAAATCCTTGAGCTGGCAGGCAATGCG  
TCTCGGATAACAAAAAACTCGCATTATCCCCGCCACCTGCAGCTAGCGATCCGCAATGATGAGGAAC  
TCAATAAGCTTTTGGCGGCGTGACCATTGCCAGGGCGGAGTCTGCCTAACATTCAGGCAGTGTCTGCT  
GCCAAGAAGACTGAGAGTCACCACCATAAAGCCCAAAGCAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC209336 protein sequence  
Red=Cloning site Green=Tags(s)  
MSGRGKQGGKARAKSKSRSSRAGLQFPVGRIRHLLRKGNYAERIGAGAPVYLAAVLEYLTAEILELAGNA  
SRDNKKTRIIPRHLQLAIRNDEELNKLGGVTIAQGGVLPNIQAVLLPKKTESHHAQSK

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6548\\_a04.zip](https://cdn.origene.com/chromatograms/mk6548_a04.zip)

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_170745

**ORF Size:** 393 bp

**OTI Disclaimer:** 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_170745.3](#), [NP\\_734466.1](#)

**RefSeq Size:** 500 bp

**RefSeq ORF:** 396 bp

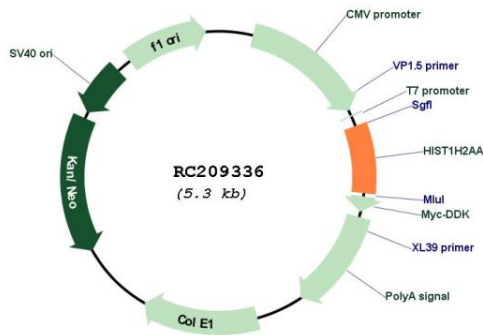
**Locus ID:** 221613

**UniProt ID:** [Q96QV6](#)

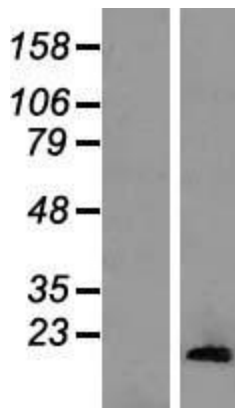
**Cytogenetics:** 6p22.2  
**Protein Pathways:** Systemic lupus erythematosus  
**MW:** 14.2 kDa

**Gene Summary:** 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 intronless and encodes a replication-dependent histone that is a member of the histone H2A family. Transcripts from this gene contain a palindromic termination element. [provided by RefSeq, Aug 2015]

**Product images:**



Circular map for RC209336



Western blot validation of overexpression lysate (Cat# [LY406865]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209336 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).