

Product datasheet for RC217009

HIST1H2AD (NM_021065) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: HIST1H2AD (NM_021065) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: HIST1H2AD
Synonyms: H2A.3; H2A/g; H2AFG
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC217009 representing NM_021065
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTCCGGACGCGCAAGCAAGGCGAAAGGCCCGAGCTAAGGCTAAGACCCGCTCTTCGGGGCCGGAC
TCCAGTTCCTGTGGGCCGCTACACCGCTTGCTCCGCAAGGCCAACTACTCCGAGCGAGTCGGGGCCGG
CGCGCCAGTGTATCTGGCGCGGTGTTGGAGTACCTGACCGCCGAGATCCTGGAGCTGGCGGGCAACGCC
GCCCGCGACAACAAGAAGACCCGCATCATCCCCGACACCTGCAGCTGGCCATCCGCAACGACGAGGAGC
TAAACAAGTTGCTGGGTAAGTCAAAATTGCTCAGGGCGGTGTTCTGCCAACATCCAGGCTGTACTGCT
CCCCAAGAAGACTGAGAGTCACCACAAGGCCAAGGGCAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC217009 representing NM_021065
Red=Cloning site Green=Tags(s)
MSGRGKQGGKARAKAKTRSSRAGLQFPVGRVHRLLRKGNYSERVGAGAPVYLAAVLEYLTAEILELAGNA
ARDNKKTRIIPRHLQLAIRNDEELNKLKGVTIAQGGVLPNIQAVLLPKKTESHKAKGK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8018_b11.zip

Restriction Sites: Sgfl-Mlul

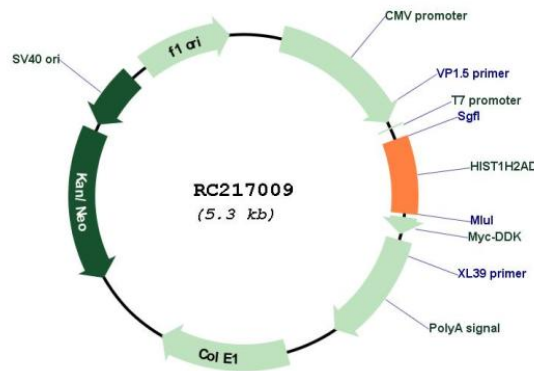


View online »

Cloning Scheme:



Plasmid Map:



ACCN: NM_021065

ORF Size: 390 bp

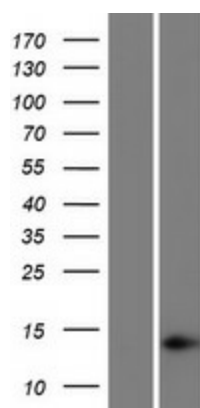
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

RefSeq:	NM_021065.3
RefSeq Size:	460 bp
RefSeq ORF:	393 bp
Locus ID:	3013
Protein Pathways:	Systemic lupus erythematosus
MW:	13.9 kDa

Gene Summary: Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. This structure consists of approximately 146 bp of DNA wrapped around a nucleosome, an 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 lack polyA tails; instead, they contain a palindromic termination element. This gene is found in the large histone gene cluster on chromosome 6p22-p21.3. [provided by RefSeq, Aug 2015]

Product images:



Western blot validation of overexpression lysate (Cat# [LY412130]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217009 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).