

## Product datasheet for RC201434

### Histone H2A.X (H2AFX) (NM\_002105) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Histone H2A.X (H2AFX) (NM\_002105) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Histone H2A.X  
**Synonyms:** H2A.X; H2A/X; H2AFX  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC201434 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTCGGGCGCGGCAAGACTGGCGCAAGGCCCGCGCCAAGGCCAAGTCGCGCTCGTCGCGCGCCGGCC  
 TCCAGTCCCAGTGGGCCGTGTACACCGGCTGCTGCGGAAGGGCCACTACGCCGAGCGGTTGGCGCCGG  
 CGCGCCAGTGTACCTGGCGGCAGTGTGGAGTACCTCACCGCTGAGATCTGGAGCTGGCGGCAATGCG  
 GCCCGCACAACAAGAAGACGCGAATCATCCCCGCCACCTGCAGCTGGCCATCCGCAACGACGAGGAGC  
 TCAACAAGCTGCTGGGCGCGTGACGATCGCCAGGGAGGCGTCTGCCAACATCCAGGCCGTGCTGCT  
 GCCAAGAAGACCAGCGCCACCGTGGGGCCGAAGCGCCCTCGGGCGGCAAGAAGGCCACCCAGGCCTCC  
 CAGGAGTAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC201434 protein sequence  
 Red=Cloning site Green=Tags(s)

MSGRGKTGGKARAKAKSRSSRAGLQFPVGRVHRLLRKGYAERVGAGAPVYLAADVLEYLTAEILELAGNA  
 ARDNKKTRIIPRHLQLAIRNDEELNKLGGVTIAQGGVLPNIQAVLLPKKTSATVGPKAPSGGKKATQAS  
 QEY

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6052\\_a05.zip](https://cdn.origene.com/chromatograms/mk6052_a05.zip)

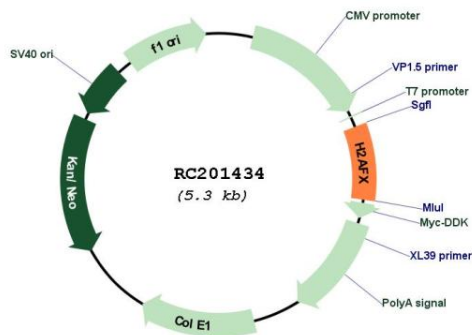


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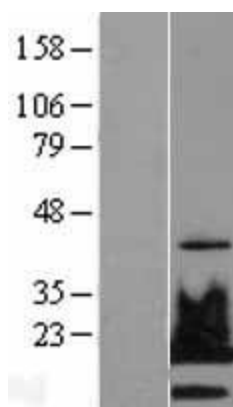


<b>Locus ID:</b>	3014
<b>UniProt ID:</b>	<a href="#">P16104</a>
<b>Cytogenetics:</b>	11q23.3
<b>Domains:</b>	H2A, histone
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Systemic lupus erythematosus
<b>MW:</b>	15.1 kDa
<b>Gene Summary:</b>	Histones are basic nuclear proteins that are 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 encodes a replication-independent histone that is a member of the histone H2A family, and generates two transcripts through the use of the conserved stem-loop termination motif, and the polyA addition motif. [provided by RefSeq, Oct 2015]

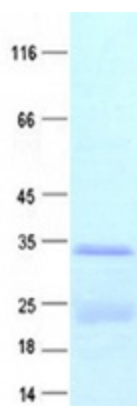
**Product images:**



Circular map for RC201434



Western blot validation of overexpression lysate (Cat# [LY400770]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201434 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified H2AFX protein (Cat# [TP301434]). The protein was produced from HEK293T cells transfected with H2AFX cDNA clone (Cat# RC201434) using MegaTran 2.0 (Cat# [TT210002]).