

## Product datasheet for **MC200689**

### H2ax (NM\_010436) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** H2ax (NM\_010436) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** H2ax  
**Synonyms:** AW228881; gammaH; gammaH2ax; H2A.; H2A.X; H2af; H2afx; Hist5-; Hist5-2ax  
**Mammalian Cell Selection:** Neomycin  
**Vector:** PCMV6-Kan/Neo (PCMV6KN)  
**E. coli Selection:** Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >BC010336 sequence for NM\_010436  
 GTTCGTGGTCTCTCAGCGTTGTTTCGCAGCTCTTCTACCTCGTACACTATGTCGGACGCGGCAAGACCGG  
 CGGCAAGGCCCGCGCCAAGGCCAAGTCGCGCTTTCACGCGCCGGCCTTCAGTTCCTGTAGGCCGCGTA  
 CACCGGCTGCTGCGGAAAGGCCACTACGCGAGCGGTGGGCGCAGGCGCGCCGGTGTACCTGGCAGCGG  
 TGCTCGAGTACCTCACTGCCGAGATCCTGGAGCTGGCGGCAACGCGGCCCGCGACAACAAGAAGACGCG  
 CATCATCCCGCGCCACTGCAGCTGGCCATCCGCAACGACGAGGAGCTCAACAAGCTGCTGGGCGCGGTG  
 ACCATCGCGCAGGGCGGCGTCTGCCAACATCCAGGCCGTGCTGCTGCCAAGAAGAGCAGCGCCACCG  
 TGGGGCCCAAGGCCCGGCGGTGGCAAGAAGGCCCTCGCAGGCCCTCAGGAGTACTGAGGGGGCCCGCG  
 CCGAGGCCCGCCAGCCCTCCCCACACTCCACAAAGGCCCTTTAAGGGCCACCCTCCCTCACAGAAA  
 GAGCTGAGCCACTTCGGGCTGCGGCGGCTTGGCGGTCGCCATCCTTTCTTTCCCTCCTCCTCCCTCC  
 CCGCCCTCGCGCACTTCCCTTACCCCGCACGGCCTCGGTTCTGCCACGGAGACGCGGGCGCCGC  
 GGCACCTGCCATCCCGAGCTCGTGACATCGCTTCGCGGTTCTCGGTTGTGGACGACGGCTCCGTGCGG  
 AGAGGCTGCGGGCCCTCCCGGAGTCTCGGCCCTCGCTCAGACGTCCGGCCGCGGTGGGCTTGAAGGTT  
 AGTCCCTCCGAGCTACAGCCCCGGCGTCTTGTTCAGCTTGGTGTAGCCCTCGCCTGGACCTTTGA  
 AAAGTGACTTGATTGCCGGGCTTAGAGGAGGAGAAATGGATCACATTGTTTCCCTTCGGTGTACCGTTGC  
 TGGCCTCATACCAGTTGACCCTGTGCCATTCTAGGCCAGTGTGGTGTGGCGGGGCCAAAAATGGTTGT  
 AATGTGAACCCAGTTTCTTAGGAATACCTCCCGCAAGGGTCAAGAGACGCTTACCGGCTGTGGACA  
 AGAGTTCTATACCTGCCGAGGCGACTGGCAGCCGGGCTAGCCATCCATCCCTCTTCCCAGCGACTC  
 AACTACAACCCAAACACTAGATACCAGCACAAGCCGGTGAATCCCTGTCTGGACTGAGCCTCTGGCTTC  
 TGAAGTGAACCTTTTGCAGCTATTACAAGTTTAGAACCTTAAAGTGGGGAGATTTAATGGGCTAATTTTAT  
 TAAAGGATCGTTTGGTTTTGTTTTTAA

**Restriction Sites:** RsrII-NotI  
**ACCN:** NM\_010436  
**Insert Size:** 432 bp



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<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">BC010336</a> , <a href="#">AAH10336</a>
<b>RefSeq Size:</b>	1414 bp
<b>RefSeq ORF:</b>	432 bp
<b>Locus ID:</b>	15270
<b>UniProt ID:</b>	<a href="#">P27661</a>
<b>Cytogenetics:</b>	9 24.84 cM
<b>Gene Summary:</b>	<p>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. [provided by RefSeq, Nov 2015]</p>