

Product datasheet for **MC206113**

H2afy2 (BC046794) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	H2afy2 (BC046794) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	H2afy2
Synonyms:	macroH2A2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC046794
 AGAACTGCCGCTTGCCGCCATTGACACGCACAGATACAACCCCAAGAAAGGCAGGGTCTGCCAGCACC
 GGCGGCACGCGGGCCGAACCTGCGGCGGGATTGGCGCGCACTAGGCCACCGGGCGCCGGAGCCCGCGG
 TGCAGCACCAGTATTGTGTAGGTGCCAAGAGACCACTCTGTGAGCAAGCTGAGAGGAAAAATCGAGGCAAG
 ATGTCAGGCCGGAGCGGGAAGAAGAAAATGTCCAAGCTGTCCCGTCCAGCCAGGGCCGGCGTCATCTTTC
 CAGTAGGCCGGTTGATGCGCTACTTGAAAAAGGGAACCTTCAAGTACAGGATCAGCGTAGGTGCTCCCGT
 CTACATGGCTGCGGTCATTGAGTACCTAGCAGCGGAAATCCTGGAGTTGGCTGGGAACGCTGCGAGGGAC
 AACAAAGAAGGCACGGATAGCCCCAGACACATCCTGCTGGCCGTTGCCAACGACGAGGAACCAACCCAGC
 TACTGAAAGGAGTGACTATCGCCAGTGGGGGTGTCTGCCGAGAATCCACCCCAACTGCTGGCCAAAGAA
 GCGAGGGACCAAAGGCAAGTCAAGAGCATCCTCTCCCCACCCAGAGAAAAGAGGAAGGAAGGCCGCA
 TCAGGCAAGAAGGGGGTAAAGAAATCCAAGGCCACCAAGCCACGGACGTCCAAGAAGTCTAAAGCAAAGG
 ACAGCGATAAAGAAGGAACATCAAATCCACCTCGGAGGATGGGCCGGGAGATGGCTTACCATCTTGTC
 TTCGAAGAGCCTGTTCTGGGGCAGAAGCTATCCCTGACCCAGAGTGACATCAGCCATATTGGTCCATG
 AGGGTGGAGGGCATCGTCCACCAACCACAGCCGAGATCGACCTCAAGGAAGAGATAGGGAAAGCCTTGG
 AAAAGGCTGGGGTAAAGAGTTCTTGAAACAGTGAAGGAGCTTCGCAAGTCCCAAGGCCCTTTGGAAGT
 CGCTGAAGCTGCGTCAGCCAATCCAGTGGACTCGCAGCCAAATTTGTCATCCACTGTACATCCCCCAG
 TGGGGCTCCGACAAATGTGAAGAACAGCTGGAAGAGACCATCAAAAACCTGCTGTCTGCAGCAGAGGACA
 AGAAGCTTAAATCCGTCGCCTTCCCACCGTTCCCAGTGGCAGAACTGCTTCCCCAACAGACGGCCGC
 CCAGGTGACCCTCAAGGCCATCTCGGCTCACTTCGACGACTCGAGCTCGTCTCGCTGAAGAATGTGTAC
 TTCCTGCTCTTCGACAGCGAGAGCATCGGCATCTACGTGCAGGAGATGGCCAACTGGACACCAAGTAGC
 TCTCTCCAGTGGCGGGAAGGAGGAGGATCGGCGTGACGTCAAGAGCGGGGGTTTTATTTTTACAAG
 GATTGCAGAAGGGTGACGGGGCATGGGAGCGGAGGGTGGCTGAGAGGGTGAACGGAGGCAGCGGGAACAG
 GTCTCGCTGCCTGGTGAAGGGTCCGGTGCATTTTATATCTCTTTACAAGGGCCTCTCTTCCACAGT
 TAACCAGTCTCCACCAGGGCTTTCTTTCCATGTGTTTTTCTTCTTGTGTTTTAGAACTTTTTCAAAAA
 CAAACAAGACAAACAAACATAAAAATAGGCCTTTTAGATTTATAGCAGTGACTTTTACACACTCTCAC
 ACACACACACACACAAAATCTGTTTACAGTTTCTGTGTCTTTGGGTTCTCCTTTTTTCCAAGAGAAAA
 GGATGTGACTGCCATCCTAGGTATACTGGCTGTCTCCCTCAGTGGAGAAGATGAGAAGAACATCTTGGG
 GTGCTTTTCTGTTATAGGGTCCCCTCCCTGACGCCTAAAATATTTGTAACACCTAAAAGGGTTTTGC
 TTCGGATTTTTGTTTGGTTCGGTTTTTTTTGTTTTTTAAAGAAAAGAAAATGAGAAGAAAAA AAAAAA

Restriction Sites: AscI-NotI

ACCN: BC046794

Insert Size: 1119 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: BC046794, AAH46794

RefSeq Size: 1967 bp

RefSeq ORF: 1119 bp

Locus ID: 404634

Cytogenetics: 10 B4

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 encodes a replication-independent histone that is a member of the histone H2A family. It replaces conventional H2A histones in a subset of nucleosomes where it represses transcription and may participate in stable X chromosome inactivation. [provided by RefSeq, Nov 2015]